

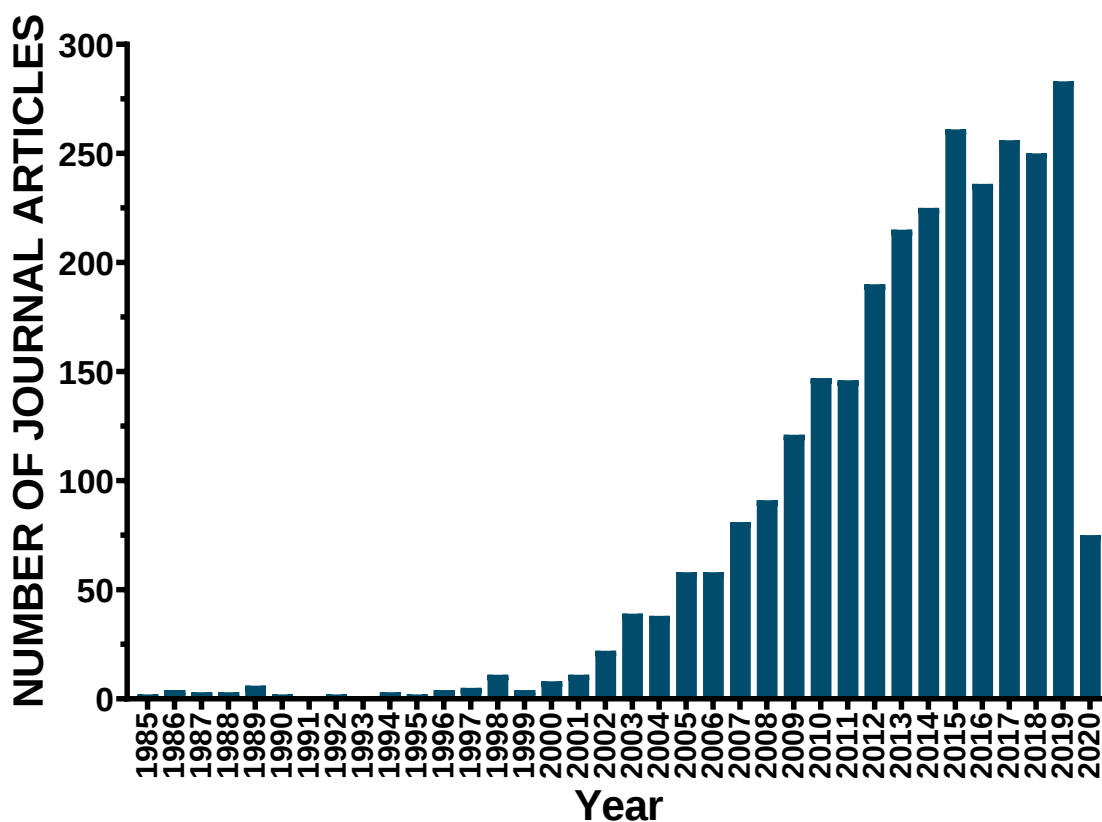
BioSpherix Customer Publication List

Journal Articles

1985 – May 2020

We currently have 2,817 citations
in customer research article publications

Customer Publications by year



References by Year

2020 [1-75]
2019 [76-313]
2018 [314-563]
2017 [564-575] [576-819]
2016 [820-1055]
2015 [1056-1071] [1072-1316]
2014 [1317-1540]
2013 [1541-1755]
2012 [1756-1945]
2011 [1946-2091]
2010 [2092-2238]
2009 [2239-2359]
2008 [2360-2450]
2007 [2451-2531]
2006 [2532-2589]
2005 [2590-2647]
2004 [2648-2685]
2003 [2686-2724]
2002 [2725-2746]
2001 [2747-2757]
2000 [2758-2765]
1999 [2766-2769]
1998 [2770-2780]
1997 [2781-2785]
1996 [2786-2789]
1995 [2790, 2791]
1994 [2792-2794]
1993 [2795]
1992 [2796, 2797]
1990 [2798, 2799]
1989 [2800-2805]
1988 [2806-2808]
1987 [2809-2811]
1986 [2812-2815]
1985 [2816, 2817]

References

1. Halder, S.K. and R. Milner, *Chronic mild hypoxia accelerates recovery from preexisting EAE by enhancing vascular integrity and apoptosis of infiltrated monocytes*. Proc Natl Acad Sci U S A, 2020: p. 201920935.
2. Hill, N.C., et al., *Life cycle of a cyanobacterial carboxysome*. Science Advances, 2020. **6**(19): p. eaba1269.
3. Zhang, L., et al., *Impaired Autophagic Activity Contributes to the Pathogenesis of Bronchopulmonary Dysplasia: Evidence from Murine and Baboon Models*. Am J Respir Cell Mol Biol, 2020. **0**(ja): p. null.
4. Wei, S.T., et al., *Atypical chemokine receptor ACKR3/CXCR7 controls postnatal vasculogenesis and arterial specification by mesenchymal stem cells via Notch signaling*. Cell Death Dis, 2020. **11**(5): p. 307.
5. Zions, M., et al., *Nest Carbon Dioxide Masks GABA-Dependent Seizure Susceptibility in the Naked Mole-Rat*. Curr Biol, 2020.
6. Fukushima, Y., et al., *RhoJ integrates attractive and repulsive cues in directional migration of endothelial cells*. EMBO J, 2020. **n/a**(n/a): p. e102930.
7. Martinez, D., et al., *Loss of excitatory amino acid transporter restraint following chronic intermittent hypoxia contribute to synaptic alterations in nucleus tractus solitarii*. J Neurophysiol, 2020. **0**(0): p. null.
8. Vázquez-Membrillo, M., et al., *Prolactin stimulates the vascularization of the retina in newborn mice under hyperoxia conditions*. Journal of Neuroendocrinology, 2020. **n/a**(n/a): p. e12858.
9. Vagaska, B., O. Gillham, and P. Ferretti, *Modelling human CNS injury with human neural stem cells in 2- and 3-Dimensional cultures*. Sci Rep, 2020. **10**(1): p. 6785.
10. Alleboina, S., et al., *Inhibition of protein kinase C beta phosphorylation activates nuclear factor-kappa B and improves postischemic recovery in type 1 diabetes*. Exp Biol Med (Maywood), 2020: p. 1535370220920832.
11. McCullough, D.J., et al., *EXPRESS: Endurance Exercise Training in Pulmonary Hypertension increases Skeletal Muscle Electron Transport Chain Supercomplex Assembly*. Pulmonary Circulation, 2020: p. 2045894020925762.
12. Polonis, K., et al., *Chronic Intermittent Hypoxia Triggers a Senescence-like Phenotype in Human White Preadipocytes*. Sci Rep, 2020. **10**(1): p. 6846.
13. Wedgwood, S., et al., *Intestinal Dysbiosis and the Developing Lung: The Role of Toll-Like Receptor 4 in the Gut-Lung Axis*. Front Immunol, 2020. **11**: p. 357.
14. Li, J., et al., *Blocking GSDMD processing in innate immune cells but not in hepatocytes protects hepatic ischemia-reperfusion injury*. Cell Death Dis, 2020. **11**(4): p. 244.
15. Tantingco, G. and M.G. Ryou, *Normobaric intermittent hypoxic training regulates microglia phenotype and enhances phagocytic activity*. Exp Biol Med (Maywood), 2020. **245**(8): p. 740-747.
16. Chen, H., et al., *NLRP12 collaborates with NLRP3 and NLRC4 to promote pyroptosis inducing ganglion cell death of acute glaucoma*. Mol Neurodegener, 2020. **15**(1): p. 26.

17. Barbosa, D.M., et al., *Rhein, a novel Histone Deacetylase (HDAC) inhibitor with antifibrotic potency in human myocardial fibrosis*. Sci Rep, 2020. **10**(1): p. 4888.
18. Nagano, N., et al., *Attenuation of Hyperoxic Lung Injury in Newborn Thioredoxin-1-Overexpressing Mice through the Suppression of Proinflammatory Cytokine mRNA Expression*. Biomedicines, 2020. **8**(3): p. 66.
19. Coy, R., et al., *Combining in silico and in vitro models to inform cell seeding strategies in tissue engineering*. J R Soc Interface, 2020. **17**(164): p. 20190801.
20. Cho, H., et al., *iPSC-derived endothelial cell response to hypoxia via SDF1a/CXCR4 axis facilitates incorporation to revascularize ischemic retina*. JCI Insight, 2020. **5**(6).
21. Wang, X., et al., *Role of miR-326 in neonatal hypoxic-ischemic brain damage pathogenesis through targeting of the delta-opioid receptor*. Mol Brain, 2020. **13**(1): p. 51.
22. Spyropoulos, F., et al., *EXPRESS: Echocardiographic markers of pulmonary hemodynamics and right ventricular hypertrophy in rat models of pulmonary hypertension*. Pulmonary Circulation, 2020: p. 2045894020910976.
23. Xu, W., et al., *TRAF5 protects against myocardial ischemia reperfusion injury via AKT signaling*. Eur J Pharmacol, 2020. **878**: p. 173092.
24. Yuan, J., et al., *MicroRNA-421 protects against chronic intermittent hypoxia-induced vascular endothelial cell injury by targeting TLR4*. Tropical Journal of Pharmaceutical Research, 2020. **19**(3): p. 525-532.
25. Chao, C.-M., et al., *Failure to Down-Regulate miR-154 Expression in Early Postnatal Mouse Lung Epithelium Suppresses Alveologenesis, with Changes in Tgf- β Signaling Similar to those Induced by Exposure to Hyperoxia*. Cells, 2020. **9**(4): p. 859.
26. Slocum, J.T., et al., *Design and validation of a device for the mechanical stimulation of bioengineered 3D neo-tissue constructs*. Precision Engineering, 2020. **64**: p. 129-137.
27. Lin, H., et al., *Systemic hypoxia potentiates anti-tumor effects of metformin in hepatocellular carcinoma in mice*. Acta Biochim Biophys Sin (Shanghai), 2020. **52**(4): p. 421-429.
28. Mezu-Ndubuisi, O.J., et al., *Long-term evaluation of retinal morphology and function in a mouse model of oxygen-induced retinopathy*. Mol Vis, 2020. **26**: p. 257-276.
29. Tsuji, S., et al., *Aggravated brain injury after neonatal hypoxic ischemia in microglia-depleted mice*. J Neuroinflammation, 2020. **17**(1): p. 111.
30. Bharat, A., et al., *High CO₂ Levels Impair Lung Wound Healing*. Am J Respir Cell Mol Biol, 2020. **0**(ja): p. null.
31. Richards, D.J., et al., *Human cardiac organoids for the modelling of myocardial infarction and drug cardiotoxicity*. Nat Biomed Eng, 2020. **4**(4): p. 446-462.
32. Dutta, S., et al., *Hypoxia-induced small extracellular vesicle proteins regulate proinflammatory cytokines and systemic blood pressure in pregnant rats*. Clinical science (London, England: 1979), 2020.
33. Amgalan, D., et al., *A small-molecule allosteric inhibitor of BAX protects against doxorubicin-induced cardiomyopathy*. Nature Cancer, 2020. **1**(3): p. 315-328.

34. Wang, T., et al., *Transcriptional Profile Alteration of Peripheral Blood in Chronic Hypoxia*. Chin Med Sci J, 2020. **35**(1).
35. Koehler, J., et al., *Differential Expression of miRNAs in Hypoxia ("HypoxamiRs") in Three Canine High-Grade Glioma Cell Lines*. Frontiers in Veterinary Science, 2020. **7**(104).
36. Bretz, C.A., et al., *Erythropoietin Receptor Signaling Supports Retinal Function after Vascular Injury*. Am J Pathol, 2020.
37. Peebles, E.S., et al., *Combined Treatment with Insulin-Like Growth Factor 1 and AMD3100 Improves Motor Outcome in a Murine Model of Neonatal Hypoxic-Ischemic Encephalopathy*. Developmental Neuroscience, 2020.
38. Radhakrishnan, J., A. Baetiong, and R.J. Gazmuri, *Constitutive Cyclophilin-D Ablation in Mice Increases Exercise and Cognitive-Behavioral Performance under Normoxic and Hypoxic Conditions*. Physiology & Behavior, 2020: p. 112828.
39. Lei, Y., et al., *O-GlcNAcylation of PFKFB3 is required for tumor cell proliferation under hypoxia*. Oncogenesis, 2020. **9**(2): p. 21.
40. Song, J.-q., et al., *Heterozygous SOD2 deletion deteriorated chronic intermittent hypoxia-induced lung inflammation and vascular remodeling through mtROS-NLRP3 signaling pathway*. Acta Pharmacologica Sinica, 2020.
41. Klomp, J., et al., *Comprehensive transcriptomic profiling reveals SOX7 as an early regulator of angiogenesis in hypoxic human endothelial cells*. Journal of Biological Chemistry, 2020: p. jbc. RA119. 011822.
42. Forbes, T.A., et al., *Environmental enrichment ameliorates perinatal brain injury and promotes functional white matter recovery*. Nature Communications, 2020. **11**(1): p. 964.
43. Hait, N.C., et al., *Regulation of hypoxia-inducible factor functions in the nucleus by sphingosine-1-phosphate*. FASEB J, 2020.
44. Patel, V., et al., *Dietary Antioxidants Significantly Attenuate Hyperoxia-Induced Acute Inflammatory Lung Injury by Enhancing Macrophage Function via Reducing the Accumulation of Airway HMGB1*. Int J Mol Sci, 2020. **21**(3): p. E977.
45. Matott, M.P., E.M. Hasser, and D.D. Kline, *Sustained Hypoxia Alters nTS Glutamatergic Signaling and Expression and Function of Excitatory Amino Acid Transporters*. Neuroscience, 2020.
46. Kang, H.S., et al., *Intermittent hypoxia exacerbates tumor progression in a mouse model of lung cancer*. Sci Rep, 2020. **10**(1): p. 1854.
47. Sun, M., et al., *Epithelial Membrane Protein 2 (EMP2) Promotes VEGF-Induced Pathological Neovascularization in Murine Oxygen-Induced Retinopathy*. Invest Ophthalmol Vis Sci, 2020. **61**(2): p. 3.
48. Son, J.-H., et al., *Dopaminergic Co-Regulation of Locomotor Development and Motor Neuron Synaptogenesis is Uncoupled by Hypoxia in Zebrafish*. eNeuro, 2020.
49. Dewitte, A., et al., *CD154 Induces Interleukin-6 Secretion by Kidney Tubular Epithelial Cells under Hypoxic Conditions: Inhibition by Chloroquine*. Mediators of Inflammation, 2020. **2020**.

50. Chakos, A., et al., *Ex-vivo lung perfusion versus standard protocol lung transplantation—mid-term survival and meta-analysis*. Annals of Cardiothoracic Surgery, 2020. **9**(1): p. 1-9.
51. Saralkar, P., T. Arsiwala, and W.J. Geldenhuys, *Nanoparticles formulation and in vitro efficacy testing of the mitoNEET ligand NL-1 for drug delivery in a brain endothelial model of ischemic reperfusion-injury*. Int J Pharm, 2020: p. 119090.
52. Sun, Z.M., et al., *Resveratrol protects against CIH-induced myocardial injury by targeting Nrf2 and blocking NLRP3 inflammasome activation*. Life Sci, 2020. **245**: p. 117362.
53. El-Tohamy, R., et al., *Myoglobin variants are expressed in human glioblastoma cells-hypoxia effect?* Oncology Reports, 2020.
54. Dalal, S., et al., *Exogenous Ubiquitin Attenuates Hypoxia/Reoxygenation-Induced Cardiac Myocyte Apoptosis via the Involvement of CXCR4 and Modulation of Mitochondrial Homeostasis*. Biochemistry and Cell Biology, 2020.
55. Kim, J., et al., *Inhibition of Hypoxia-Inducible Factor 1 Alpha Accumulation by Glyceryl Trinitrate and Cyclic Guanosine Monophosphate*. Bioscience reports, 2020.
56. Steele, A.N., et al., *Multi-phase catheter-injectable hydrogel enables dual-stage protein-engineered cytokine release to mitigate adverse left ventricular remodeling following myocardial infarction in a small animal model and a large animal model*. Cytokine, 2020. **127**: p. 154974.
57. Gore, A., et al., *The nitric oxide donor, (Z)-1-[N-(2-aminoethyl)-N-(2-ammonioethyl)amino]diazene-1-ium-1,2-diolate (DETA-NONOate/D-NO), increases survival by attenuating hyperoxia-compromised innate immunity in bacterial clearance in a mouse model of ventilator-associated pneumonia*. Biochem Pharmacol, 2020: p. 113817.
58. Deep, G., et al., *Exosomes secreted by prostate cancer cells under hypoxia promote matrix metalloproteinases activity at pre-metastatic niches*. Mol Carcinog, 2020. **n/a**(n/a).
59. Arita, M., et al., *Licochalcone A Inhibits BDNF and TrkB Gene Expression and Hypoxic Growth of Human Tumor Cell Lines*. Int J Mol Sci, 2020. **21**(2): p. 506.
60. Nie, H., et al., *O-GlcNAcylation of PGK1 coordinates glycolysis and TCA cycle to promote tumor growth*. Nature Communications, 2020. **11**(1): p. 36.
61. Wu, W., et al., *PI3K δ as a novel therapeutic target in pathological angiogenesis*. Diabetes, 2020.
62. O'Reilly, M., et al., *Late rescue therapy with cord-derived mesenchymal stromal cells for established lung injury in experimental bronchopulmonary dysplasia*. Stem Cells Dev, 2020. **0**(ja): p. null.
63. Gerace, E., et al., *Tolerance Induced by DHPG Postconditioning is Mediated by the PI3K/Akt/GSK3 β Signalling Pathway in an In Vitro Model of Cerebral Ischemia*. Neuroscience, 2020.
64. Paavola, J., et al., *Vezf1 regulates cardiac structure and contractile function*. EBioMedicine, 2020. **51**: p. 102608.
65. Kinoshita, S., et al., *Real-time Monitoring of Hypoxic-Ischemic Brain Damage in Neonatal Rats Using Diffuse Light Reflectance Spectroscopy*. Reproductive Sciences, 2020.

66. Shults, N.V., et al., *Increased Smooth Muscle Kv11.1 Channel Expression in Pulmonary Hypertension and Protective Role of Kv11.1 Channel Blocker Dofetilide*. Am J Pathol, 2020. **190**(1): p. 48-56.
67. Aravamuthan, B.R., et al., *Sex may influence motor phenotype in a novel rodent model of cerebral palsy*. Neurobiol Dis, 2020. **134**: p. 104711.
68. Xie, S., et al., *Andrographolide Protects Against Adverse Cardiac Remodeling After Myocardial Infarction through Enhancing Nrf2 Signaling Pathway*. Int J Biol Sci, 2020. **16**(1): p. 12-26.
69. Bermudez, D., et al., *Increased hypoxic proliferative response and gene expression in erythroid progenitor cells of Andean highlanders with chronic mountain sickness*. Am J Physiol Regul Integr Comp Physiol, 2020. **318**(1): p. R49-R56.
70. Vitali, S.H., et al., *Heme oxygenase-1 dampens the macrophage sterile inflammasome response and regulates its components in the hypoxic lung*. Am J Physiol Lung Cell Mol Physiol, 2020. **318**(1): p. L125-L134.
71. Du, Y., et al., *miRNA-Mediated Suppression of a Cardioprotective Cardiokine as a Novel Mechanism Exacerbating Post-MI Remodeling by Sleep Breathing Disorders*. Circ Res, 2020. **126**(2): p. 212-228.
72. Lin, X., et al., *Metallothionein induction attenuates the progression of lung injury in mice exposed to long-term intermittent hypoxia*. Inflamm Res, 2020. **69**(1): p. 15-26.
73. Bittencourt-Silva, P.G., et al., *Postnatal intermittent hypoxia enhances phrenic and reduces vagal upper airway motor activities in rats by epigenetic mechanisms*. Exp Physiol, 2020. **105**(1): p. 148-159.
74. Mahiddine, K., et al., *Relief of tumor hypoxia unleashes the tumoricidal potential of neutrophils*. J Clin Invest, 2020. **130**(1): p. 389-403.
75. Cavallo, D., et al., *Neuroprotective effects of mGluR5 activation through the PI3K/Akt pathway and the molecular switch of AMPA receptors*. Neuropharmacology, 2020. **162**: p. 107810.
76. Abdulnour-Nakhoul, S., et al., *Effects of chronic hypercapnia on ammonium transport in the mouse kidney*. Physiol Rep, 2019. **7**(16): p. e14221.
77. Abu-El-Rub, E., et al., *Hypoxia-induced 26S proteasome dysfunction increases immunogenicity of mesenchymal stem cells*. Cell Death Dis, 2019. **10**(2): p. 90.
78. Accorsi-Mendonca, D., L.G.H. Bonagamba, and B.H. Machado, *Astrocytic modulation of glutamatergic synaptic transmission is reduced in NTS of rats submitted to short-term sustained hypoxia*. J Neurophysiol, 2019. **121**(5): p. 1822-1830.
79. Al Khazal, F., et al., *A conditional mouse model of complex II deficiency manifesting as Leigh-like syndrome*. FASEB J, 2019. **33**(12): p. 13189-13201.
80. Al-Ahmad, A.J., et al., *Hyaluronan impairs the barrier integrity of brain microvascular endothelial cells through a CD44-dependent pathway*. Journal of Cerebral Blood Flow & Metabolism, 2019. **39**(9): p. 1759-1775.
81. Alakoski, T., et al., *Inhibition of cardiomyocyte Sprouty1 protects from cardiac ischemia-reperfusion injury*. Basic Res Cardiol, 2019. **114**(2): p. 7.
82. Alleboina, S., et al., *Dual specificity phosphatase 5 regulates perfusion recovery in experimental peripheral artery disease*. Vasc Med, 2019. **24**(5): p. 395-404.

83. Armond, R.D., et al., *0285 Sex As A Biological Variable On The Inflammatory Effects Of Intermittent Hypoxia*. Sleep, 2019. **42**(Supplement_1): p. A116-A116.
84. Ashraf, S., et al., *CAMKII as a therapeutic target for growth factor-induced retinal and choroidal neovascularisation*. JCI Insight, 2019.
85. Atay, C., et al., *BRAF Targeting Sensitizes Resistant Melanoma to Cytotoxic T Cells*. Clin Cancer Res, 2019. **25**(9): p. 2783-2794.
86. Banach, A., et al., *CEMIP upregulates BiP to promote breast cancer cell survival in hypoxia*. Oncotarget, 2019. **10**(42): p. 4307-4320.
87. Barrios-Anderson, A., et al., *Inter-alpha Inhibitor Proteins Modulate Neuroinflammatory Biomarkers After Hypoxia-Ischemia in Neonatal Rats*. J Neuropathol Exp Neurol, 2019.
88. Bavis, R.W., et al., *Combined effects of intermittent hyperoxia and intermittent hypercapnic hypoxia on respiratory control in neonatal rats*. Respir Physiol Neurobiol, 2019. **260**: p. 70-81.
89. Bazilio, D.S., et al., *Cardiovascular and respiratory profiles during the sleep-wake cycle of rats previously submitted to chronic intermittent hypoxia*. Exp Physiol, 2019. **104**(9): p. 1408-1419.
90. Bensaid, S., et al., *Impact of different methods of induction of cellular hypoxia: focus on protein homeostasis signaling pathways and morphology of C2C12 skeletal muscle cells differentiated into myotubes*. Journal of physiology and biochemistry, 2019: p. 1-11.
91. Berahovich, R., et al., *Hypoxia Selectively Impairs CAR-T Cells In Vitro*. Cancers (Basel), 2019. **11**(5): p. 602.
92. Bernard, A., et al., *Cigarette smoke extract exacerbates hyperpermeability of cerebral endothelial cells after oxygen glucose deprivation and reoxygenation*. Sci Rep, 2019. **9**(1): p. 15573.
93. Binch, A.L.A., et al., *Combinatorial conditioning of adipose derived-mesenchymal stem cells enhances their neurovascular potential: Implications for intervertebral disc degeneration*. JOR Spine, 2019. **2**(4): p. e1072.
94. Blackwood, E.A., et al., *Pharmacologic ATF6 activation confers global protection in widespread disease models by reprogramming cellular proteostasis*. Nat Commun, 2019. **10**(1): p. 187.
95. Brandolini, L., et al., *The Novel C5aR Antagonist DF3016A Protects Neurons Against Ischemic Neuroinflammatory Injury*. Neurotoxicity Research, 2019: p. 1-12.
96. Buceta, P.M.R., et al., *The kynurenine pathway is essential for rhodoquinone biosynthesis in Caenorhabditis elegans*. Journal of Biological Chemistry, 2019. **294**(28): p. 11047-11053.
97. Cahill, L.S., et al., *Fetal brain sparing in a mouse model of chronic maternal hypoxia*. J Cereb Blood Flow Metab, 2019. **39**(6): p. 1172-1184.
98. Cai, M., et al., *Profiling the Gene Expression and DNA Methylation in the Mouse Brain after Ischemic Preconditioning*. Neuroscience, 2019. **406**: p. 249-261.
99. Campillo, N., et al., *Differential Oxygenation in Tumor Microenvironment Modulates Macrophage and Cancer Cell Crosstalk: Novel Experimental Setting and Proof of Concept*. Front Oncol, 2019. **9**: p. 43.

100. Carrasco-Wong, I., et al., *Human umbilical artery endothelial cells from Large-for-Gestational-Age newborn have increased antioxidant efficiency and gene expression*. J Cell Physiol, 2019. **234**(10): p. 18571-18586.
101. Cengiz, P., et al., *Developmental differences in microglia morphology and gene expression during normal brain development and in response to hypoxia-ischemia*. Neurochem Int, 2019. **127**: p. 137-147.
102. Chabi, S., et al., *Hypoxia Regulates Lymphoid Development of Human Hematopoietic Progenitors*. Cell Rep, 2019. **29**(8): p. 2307-2320 e6.
103. Chai, N., et al., *Spermidine Prevents Heart Injury in Neonatal Rats Exposed to Intrauterine Hypoxia by Inhibiting Oxidative Stress and Mitochondrial Fragmentation*. Oxid Med Cell Longev, 2019. **2019**: p. 5406468.
104. Chao, C.M., et al., *Impact of Fgf10 deficiency on pulmonary vasculature formation in a mouse model of bronchopulmonary dysplasia*. Hum Mol Genet, 2019. **28**(9): p. 1429-1444.
105. Chen, C.M. and H.C. Chou, *Maternal inflammation exacerbates neonatal hyperoxia-induced kidney injury in rat offspring*. Pediatr Res, 2019. **86**(2): p. 174-180.
106. Chen, P.Y., et al., *Glial response to hypoxia in mutants of NPAS1/3 homolog Trachealess through Wg signaling to modulate synaptic bouton organization*. PLoS Genet, 2019. **15**(8): p. e1007980.
107. Chen, X., et al., *Neuroprotective effects of inter-alpha inhibitor proteins after hypoxic-ischemic brain injury in neonatal rats*. Exp Neurol, 2019. **317**: p. 244-259.
108. Chiblak, S., et al., *Carbon irradiation overcomes glioma radioresistance by eradicating stem cells and forming an antiangiogenic and immunopermissive niche*. JCI Insight, 2019. **4**(2).
109. Chioua, M., et al., *New Quinolylnitrones for Stroke Therapy: Antioxidant and Neuroprotective (Z)- N- tert-Butyl-1-(2-chloro-6-methoxyquinolin-3-yl)methanimine Oxide as a New Lead-Compound for Ischemic Stroke Treatment*. J Med Chem, 2019. **62**(4): p. 2184-2201.
110. Chu, A., et al., *The Placental Transcriptome in Late Gestational Hypoxia Resulting in Murine Intrauterine Growth Restriction Parallels Increased Risk of Adult Cardiometabolic Disease*. Sci Rep, 2019. **9**(1): p. 1243.
111. Clements, R.T., et al., *Treatment of Pulmonary Hypertension With Angiotensin II Receptor Blocker and Neprilysin Inhibitor Sacubitril/Valsartan*. Circ Heart Fail, 2019. **12**(11): p. e005819.
112. Cole, A.R., et al., *Safety of inhaled hydrogen gas in healthy mice*. Med Gas Res, 2019. **9**(3): p. 133-138.
113. Coronado, R.E., et al., *Hepatocyte-like cells derived from human amniotic epithelial, bone marrow, and adipose stromal cells display enhanced functionality when cultured on decellularized liver substrate*. Stem cell research, 2019: p. 101471.
114. Coronel, M., et al., *Oxygen generating biomaterial improves the function and efficacy of beta cells within a macroencapsulation device*. Biomaterials, 2019.

115. Coyle, R., et al., *The Effects of Metabolic Substrate Availability on Human Adipose-Derived Stem Cell Spheroid Survival*. Tissue Eng Part A, 2019. **25**(7-8): p. 620-631.
116. Crnkovic, S., et al., *Disconnect between Fibrotic Response and Right Ventricular Dysfunction*. Am J Respir Crit Care Med, 2019. **199**(12): p. 1550-1560.
117. Cubillos-Zapata, C., et al., *Differential effect of intermittent hypoxia and sleep fragmentation on PD-1/PD-L1 upregulation*. Sleep, 2019.
118. da Silva, M.P., et al., *Hyperexcitability and plasticity induced by sustained hypoxia on rectus abdominis motoneurons*. J Physiol, 2019. **597**(7): p. 1935-1956.
119. Dai, X., et al., *Scaling up the Manufacturing Process of Adoptive T Cell Immunotherapy*. Biotechnol J, 2019. **14**(4): p. e1800239.
120. Daviaud, N., et al., *Distinct Vulnerability and Resilience of Human Neuroprogenitor Subtypes in Cerebral Organoid Model of Prenatal Hypoxic Injury*. Front Cell Neurosci, 2019. **13**: p. 336.
121. Deng, Y., et al., *Hypoxia enhances buffalo adipose-derived mesenchymal stem cells proliferation, stemness, and reprogramming into induced pluripotent stem cells*. Journal of cellular physiology, 2019. **234**(10): p. 17254-17268.
122. Dereli, A.S., et al., *Adaptation of Respiratory-Related Brain Regions to Long-Term Hypercapnia: Focus on Neuropeptides in the RTN*. Front Neurosci, 2019. **13**: p. 1343.
123. Desjarlais, M., et al., *MicroRNA expression profile in retina and choroid in oxygen-induced retinopathy model*. PLoS One, 2019. **14**(6): p. e0218282.
124. Dias, G.F., et al., *SaO034HYPOXIA ENHANCES UREMIA-INDUCED ERYPTOSIS AND OXIDATIVE STRESS*. Nephrology Dialysis Transplantation, 2019. **34**(Supplement_1).
125. Dikalova, A.E., et al., *Reactive oxygen species modulate Na(+)-coupled neutral amino acid transporter 1 expression in piglet pulmonary arterial endothelial cells*. Am J Physiol Heart Circ Physiol, 2019. **316**(4): p. H911-H919.
126. do Carmo, J.M., et al., *Role of melanocortin 4 receptor in hypertension induced by chronic intermittent hypoxia*. Acta Physiol (Oxf), 2019. **225**(4): p. e13222.
127. Dominguez, C.P., et al., *Sensitivity to hypoxia and microbial activity are instrumental in pericarp-imposed dormancy expression in sunflower (*Helianthus annuus* L.)*. Seed Science Research, 2019: p. 1-12.
128. Donnelly, W.T., et al., *Prenatal intermittent hypoxia sensitizes the laryngeal chemoreflex, blocks serotonergic shortening of the reflex, and reduces 5-HT3 receptor binding in the NTS in anesthetized rat pups*. Exp Neurol, 2019. **326**: p. 113166.
129. Doshi, S., et al., *Neuropeptide signaling regulates the susceptibility of developing *C. elegans* to anoxia*. Free Radic Biol Med, 2019. **131**: p. 197-208.
130. Dumas, P.Y., et al., *Hematopoietic niche drives FLT3-ITD acute myeloid leukemia resistance to quizartinib via STAT5-and hypoxia-dependent upregulation of AXL*. Haematologica, 2019. **104**(10): p. 2017-2027.
131. Endesfelder, S., et al., *Antioxidative effects of caffeine in a hyperoxia-based rat model of bronchopulmonary dysplasia*. Respir Res, 2019. **20**(1): p. 88.

132. Esen, N., et al., *Endogenous Adaptation to Chronic Mild Hypoxia Shifts the Balance towards Anti-Inflammatory Milieu in Progressive Myelin Oligodendrocyte Glycoprotein Induced EAE*. Int J Neurodegener Dis, 2019. **2**(011).
133. Evans, R.G., *Another step forward for methods for studying renal oxygenation*. Kidney Int, 2019. **96**(3): p. 552-554.
134. Faes, C., et al., *Effects of hypoxia-reoxygenation stimuli on renal redox status and nuclear factor erythroid 2-related factor 2 pathway in sickle cell SAD mice*. Exp Physiol, 2019. **n/a**(n/a).
135. Fan, F., et al., *Rapamycin as a potential treatment for succinate dehydrogenase deficiency*. Heliyon, 2019. **5**(2): p. e01217.
136. Ferro, T., et al., *Successful isolation and ex vivo expansion of human mesenchymal stem/stromal cells obtained from different synovial tissue-derived (biopsy) samples*. J Cell Physiol, 2019. **234**(4): p. 3973-3984.
137. Forstner, D., et al., *Platelet-derived factors impair placental chorionic gonadotropin beta-subunit synthesis*. J Mol Med (Berl), 2019.
138. Fragopoulou, A.F., et al., *Can Neonatal Systemic Inflammation and Hypoxia Yield a Cerebral Palsy-Like Phenotype in Periadolescent Mice?* Mol Neurobiol, 2019. **56**(10): p. 6883-6900.
139. Fukumoto, J., et al., *Oxidative stress induces club cell proliferation and pulmonary fibrosis in Atp8b1 mutant mice*. Aging (Albany NY), 2019. **11**(1): p. 209-229.
140. Gaborit, B., et al., *Glucagon-like peptide 1 receptor agonists, diabetic retinopathy and angiogenesis: The AngioSafe type 2 diabetes study*. J Clin Endocrinol Metab, 2019.
141. Ge, M.Q., et al., *Differential metabolic and inflammatory responses to intermittent hypoxia in substrains of lean and obese C57BL/6 mice*. Life Sci, 2019. **238**: p. 116959.
142. Geranurimi, A., et al., *Probing Anti-inflammatory Properties Independent of NF- κ B Through Conformational Constraint of Peptide-Based Interleukin-1 Receptor Biased Ligands*. Frontiers in chemistry, 2019. **7**: p. 23.
143. Gerby, S., et al., *Hypoxia/hypercapnia prevents iron-dependent cold injuries in cord blood stem and progenitor cells*. Cytotherapy, 2019. **21**(4): p. 460-467.
144. Goloshvili, G., T. Barbakadze, and D. Mikeladze, *Sodium nitroprusside induces H-Ras depalmitoylation and alters the cellular response to hypoxia in differentiated and undifferentiated PC12 cells*. Cell Biochem Funct, 2019. **37**(7): p. 545-552.
145. Goto, T., et al., *ATP produced by anaerobic glycolysis is essential for enucleation of human erythroblasts*. Exp Hematol, 2019. **72**: p. 14-26 e1.
146. Greenshields, A.L., W. Fernando, and D.W. Hoskin, *The anti-malarial drug artesunate causes cell cycle arrest and apoptosis of triple-negative MDA-MB-468 and HER2-enriched SK-BR-3 breast cancer cells*. Exp Mol Pathol, 2019. **107**: p. 10-22.
147. Guan, P., et al., *Hydrogen protects against chronic intermittent hypoxia induced renal dysfunction by promoting autophagy and alleviating apoptosis*. Life Sci, 2019. **225**: p. 46-54.

148. Guan, P., et al., *Resveratrol prevents chronic intermittent hypoxia-induced cardiac hypertrophy by targeting the PI3K/AKT/mTOR pathway*. Life Sci, 2019. **233**: p. 116748.
149. Guan, P., et al., *Hydrogen gas alleviates chronic intermittent hypoxia-induced renal injury through reducing iron overload*. Molecules, 2019. **24**(6): p. 1184.
150. Gugliandolo, A., et al., *The Role of Hypoxia on the Neuronal Differentiation of Gingival Mesenchymal Stem Cells: A Transcriptional Study*. Cell Transplant, 2019. **28**(5): p. 538-552.
151. Guo, W.Z., et al., *Six-Transmembrane Epithelial Antigen of the Prostate 3 Deficiency in Hepatocytes Protects the Liver Against Ischemia-Reperfusion Injury by Suppressing Transforming Growth Factor-beta-Activated Kinase 1*. Hepatology, 2019. **0**(ja).
152. Halder, S.K. and R. Milner, *A critical role for microglia in maintaining vascular integrity in the hypoxic spinal cord*. Proc Natl Acad Sci U S A, 2019. **116**(51): p. 26029-26037.
153. Han, J.S., et al., *Hypoxia Restrains Lipid Utilization via Protein Kinase A and Adipose Triglyceride Lipase Downregulation through Hypoxia-Inducible Factor*. Molecular and Cellular Biology, 2019. **39**(2): p. e00390-18.
154. Han, X., et al., *Enhancing Retinal Endothelial Glycolysis by Inhibiting UCP2 Promotes Physiologic Retinal Vascular Development in a Model of Retinopathy of Prematurity*. Invest Ophthalmol Vis Sci, 2019. **60**(5): p. 1604-1613.
155. Hao, S., et al., *2-Methoxyestradiol attenuates chronic-intermittent-hypoxia-induced pulmonary hypertension through regulating microRNA-223*. Journal of cellular physiology, 2019. **234**(5): p. 6324-6335.
156. Hawkins, A.G., et al., *Microenvironmental Factors Drive Tenascin C and Src Cooperation to Promote Invadopodia Formation in Ewing Sarcoma*. Neoplasia, 2019. **21**(10): p. 1063-1072.
157. He, J., et al., *Identification and functional analysis of the Mandarin fish (Siniperca chuatsi) hypoxia-inducible factor-1alpha involved in the immune response*. Fish Shellfish Immunol, 2019. **92**: p. 141-150.
158. Heiduschka, P., et al., *Different effects of various anti-angiogenic treatments in an experimental mouse model of retinopathy of prematurity*. Clin Exp Ophthalmol, 2019. **47**(1): p. 79-87.
159. Henn, A.D., et al., *Full-Time Physioxenic Cell Culture and Handling Improves MSC Proliferation Over Hypoxic Pre-Conditioning in Vitro*. The FASEB Journal, 2019. **33**(1_supplement): p. 651.8-651.8.
160. Hilchey, S.P., et al., *Cyclosporine A Directly Affects Human and Mouse B cell Migration *in vitro* by Disrupting a HIF-1 α Dependent, O₂ Sensing, Molecular Switch*. bioRxiv, 2019: p. 622514.
161. Hsu, H.L., et al., *Chloramphenicol Induces Autophagy and Inhibits the Hypoxia Inducible Factor-1 Alpha Pathway in Non-Small Cell Lung Cancer Cells*. Int J Mol Sci, 2019. **20**(1): p. 157.
162. Hudalla, H., et al., *Carbonic Anhydrase Inhibition Ameliorates Inflammation and Experimental Pulmonary Hypertension*. Am J Respir Cell Mol Biol, 2019. **61**(4): p. 512-524.

163. Huizenga, M.N., A. Sepulveda-Rodriguez, and P.A. Forcelli, *Preclinical safety and efficacy of cannabidivarin for early life seizures*. *Neuropharmacology*, 2019. **148**: p. 189-198.
164. Hurskainen, M.K., et al., *Multiplexed single-cell transcriptomic analysis of normal and impaired lung development in the mouse*. *bioRxiv*, 2019: p. 868802.
165. Hwang, D., S. Kim, and H. Hong, *Substance P improves MSC-mediated RPE regeneration by modulating PDGF-BB*. *Cytotherapy*, 2019. **21**(5): p. S73.
166. Imamura, T., et al., *Intermittent hypoxia and hypercapnia induces inhibitor of nuclear factor-kappaB kinase subunit beta-dependent atherosclerosis in pulmonary arteries*. *Am J Physiol Regul Integr Comp Physiol*, 2019. **317**(6): p. R763-R769.
167. Ivashkiv, L.B., *The hypoxia-lactate axis tempers inflammation*. *Nat Rev Immunol*, 2019. **20**(2): p. 85-86.
168. Jackson-Weaver, O., et al., *Hypoxia/reoxygenation decreases endothelial glycocalyx via reactive oxygen species and calcium signaling in a cellular model for shock*. *J Trauma Acute Care Surg*, 2019. **87**(5): p. 1070-1076.
169. Jeyarajah, M.J., et al., *Syndecan-4 regulates extravillous trophoblast migration by coordinating protein kinase C activation*. *Sci Rep*, 2019. **9**(1): p. 10175.
170. Jin, J., et al., *Human natural killer cell manufacturing using a closed system process for patients with metastatic solid tumors or hematologic malignancies*. *Cytotherapy*, 2019. **21**(5): p. S37.
171. Josephrajan, A., et al., *Unconventional Secretion of Adipocyte Fatty Acid Binding Protein 4 Is Mediated By Autophagic Proteins in a Sirtuin-1-Dependent Manner*. *Diabetes*, 2019. **68**(9): p. 1767-1777.
172. Joshi, S., et al., *Hypoxic regulation of angiotensin-converting enzyme 2 and Mas receptor in human CD34(+) cells*. *J Cell Physiol*, 2019. **234**(11): p. 20420-20431.
173. Kaiser, S., et al., *Neuroprotection after Hemorrhagic Stroke Depends on Cerebral Heme Oxygenase-1*. *Antioxidants (Basel)*, 2019. **8**(10): p. 496.
174. Kalra, K., et al., *Developing efficient bioreactor microcarrier cell culture system for large scale production of mesenchymal stem cells (MSCs)*. *Cytotherapy*, 2019. **21**(5): p. S73.
175. Keshavarz, A., et al., *CAR, a Homing Peptide, Prolongs Pulmonary Preferential Vasodilation by Increasing Pulmonary Retention and Reducing Systemic Absorption of Liposomal Fasudil*. *Mol Pharm*, 2019. **16**(8): p. 3414-3429.
176. Keskin, I., et al., *The molecular pathogenesis of superoxide dismutase 1-linked ALS is promoted by low oxygen tension*. *Acta neuropathologica*, 2019. **138**(1): p. 85-101.
177. Kline, D.D., S. Wang, and D.L. Kunze, *TrpV1 channels contribute to spontaneous glutamate release in nucleus tractus solitarius (nTS) following chronic intermittent hypoxia (CIH)*. *Journal of neurophysiology*, 2019.
178. Komabayashi-Suzuki, M., et al., *Spatiotemporally Dependent Vascularization Is Differently Utilized among Neural Progenitor Subtypes during Neocortical Development*. *Cell Rep*, 2019. **29**(5): p. 1113-1129 e5.
179. Kong, D., et al., *Inhibition of glycogen synthase kinase 3beta protects liver against ischemia/reperfusion injury by activating 5' adenosine monophosphate-*

- activated protein kinase-mediated autophagy*. Hepatol Res, 2019. **49**(4): p. 462-472.
180. Kwee, E., et al., *Quantifying proliferative and surface marker heterogeneity in colony-founding connective tissue progenitors and their progeny using time-lapse microscopy*. J Tissue Eng Regen Med, 2019. **13**(2): p. 203-216.
 181. Lackner, M., et al., *Cryptic species of Aspergillus section Terrei display essential physiological features to cause infection and are similar in their virulence potential in Galleria mellonella*. Virulence, 2019. **10**(1): p. 542-554.
 182. Laouafa, S., et al., *Erythropoietin and caffeine exert similar protective impact against neonatal intermittent hypoxia: Apnea of prematurity and sex dimorphism*. Exp Neurol, 2019. **320**: p. 112985.
 183. Laouafa, S., et al., *Roles of oestradiol receptor alpha and beta against hypertension and brain mitochondrial dysfunction under intermittent hypoxia in female rats*. Acta Physiol (Oxf), 2019. **226**(2): p. e13255.
 184. Latorre-Pellicer, A., et al., *Regulation of Mother-to-Offspring Transmission of mtDNA Heteroplasmy*. Cell Metab, 2019. **30**(6): p. 1120-1130 e5.
 185. Lau, G., et al., *Pdk-1/Hif-1 α Ratios Define Geniohyoid Muscle Fiber Phenotypes*. 2019.
 186. Leary, S., et al., *Genetic Strain and Sex Differences in a Hyperoxia-Induced Mouse Model of Varying Severity of Bronchopulmonary Dysplasia*. Am J Pathol, 2019. **189**(5): p. 999-1014.
 187. Lee, D.E., et al., *Mitochondrial mRNA translation initiation contributes to oxidative metabolism in the myocardia of aged, obese mice*. Exp Gerontol, 2019. **121**: p. 62-70.
 188. Lee, R.H., et al., *Palmitic acid methyl ester is a novel neuroprotective agent against cardiac arrest*. Prostaglandins Leukot Essent Fatty Acids, 2019. **147**: p. 6-14.
 189. Lee, R.H.-C., et al., *Palmitic acid methyl ester is a novel neuroprotective agent against cardiac arrest*. Prostaglandins, Leukotrienes and Essential Fatty Acids, 2019. **147**: p. 6-14.
 190. Lee, S., et al., *CCN1-Yes-Associated Protein Feedback Loop Regulates Physiological and Pathological Angiogenesis*. Mol Cell Biol, 2019. **39**(18): p. MCB.00107-19.
 191. Lee, S., et al., *Developing a flow cytometry-based quantitative ido assay to measure immune potency of mesenchymal stromal cells product for phase i clinical trial*. Cytotherapy, 2019. **21**(5): p. S37-S38.
 192. Lees, J.G., et al., *Oxygen Regulates Human Pluripotent Stem Cell Metabolic Flux*. Stem Cells Int, 2019. **2019**: p. 8195614.
 193. Li, F., et al., *Neuroprotective Effects of AG490 in Neonatal Hypoxic-Ischemic Brain Injury*. Mol Neurobiol, 2019. **56**(12): p. 8109-8123.
 194. Li, J., et al., *Endothelin-1 enhanced carotid body chemosensory activity in chronic intermittent hypoxia through PLC, PKC and p38MAPK signaling pathways*. Neuropeptides, 2019. **74**: p. 44-51.
 195. Li, J.W., et al., *Mesenchymal stromal cells-derived exosomes alleviate ischemia/reperfusion injury in mouse lung by transporting anti-apoptotic miR-21-5p*. Eur J Pharmacol, 2019. **852**: p. 68-76.

196. Li, L., et al., *FoxO3 activation in hypoxic tubules prevents chronic kidney disease*. J Clin Invest, 2019. **129**(6): p. 2374-2389.
197. Li, N., et al., *Anti-apoptotic effect of interleukin-17 in a mouse model of oxygen-induced retinopathy*. Exp Eye Res, 2019. **187**: p. 107743.
198. Li, R., et al., *Autophagy: a new mechanism for regulating VEGF and PEDF expression in retinal pigment epithelium cells*. Int J Ophthalmol, 2019. **12**(4): p. 557-562.
199. Li, W.Y., et al., *Transient upregulation of TASK-1 expression in the hypoglossal nucleus during chronic intermittent hypoxia is reduced by serotonin 2A receptor antagonist*. J Cell Physiol, 2019. **234**(10): p. 17886-17895.
200. Lim, R., et al., *Enabling clinical trials in an academic GMP setting through use of closed, semi-automated manufacturing of allogeneic amniotic epithelial cells*. Cytotherapy, 2019. **21**(5): p. S37.
201. Lima-Ojeda, J.M., et al., *Altered prepulse inhibition of the acoustic startle response in BDNF-deficient mice in a model of early postnatal hypoxia: implications for schizophrenia*. Eur Arch Psychiatry Clin Neurosci, 2019. **269**(4): p. 439-447.
202. Lima-Silveira, L., et al., *Enhancement of excitatory transmission in NTS neurons projecting to ventral medulla of rats exposed to sustained hypoxia is blunted by minocycline*. The Journal of physiology, 2019.
203. Liu, B., et al., *Hypoxia-induced autophagy promotes EGFR loss in specific cell contexts, which leads to cell death and enhanced radiosensitivity*. Int J Biochem Cell Biol, 2019. **111**: p. 12-18.
204. Liu, Y., et al., *Vascular endothelial growth factor regulation of endothelial nitric oxide synthase phosphorylation is involved in isoflurane cardiac preconditioning*. Cardiovasc Res, 2019. **115**(1): p. 168-178.
205. Liu, Y., et al., *Commitment to Aerobic Glycolysis Sustains Immunosuppression of Human Mesenchymal Stem Cells*. Stem Cells Transl Med, 2019. **8**(1): p. 93-106.
206. Longsomboon, B., J. Hare, and A. Khan, *Biological product manufacturing process validation (PV): the key components*. Cytotherapy, 2019. **21**(5): p. S37.
207. Lu, W.J., et al., *New therapeutic strategy of hinokitiol in haemorrhagic shock-induced liver injury*. J Cell Mol Med, 2019. **23**(3): p. 1723-1734.
208. Luisetto, M., B.N. Ahmadabadi, and G. Rasool, *The association between hypoxia, chronic ischemia and alters prostate structure and progress of chronic prostatic disease*. 2019.
209. Luo, F., et al., *Invasive Hemodynamic Assessment for the Right Ventricular System and Hypoxia-Induced Pulmonary Arterial Hypertension in Mice*. J Vis Exp, 2019(152): p. e60090.
210. Luo, Y., et al., *CD146-HIF-1 α hypoxic reprogramming drives vascular remodeling and pulmonary arterial hypertension*. Nat Commun, 2019. **10**(1): p. 3551.
211. Macheda, T., et al., *Chronic Intermittent Hypoxia Induces Robust Astrogliosis in an Alzheimer's Disease-Relevant Mouse Model*. Neuroscience, 2019. **398**: p. 55-63.

212. Mahiddine, K., et al., *Relief of tumor hypoxia unleashes the tumoricidal potential of neutrophils*. The Journal of clinical investigation, 2019. **130**(1).
213. Malhotra, A., et al., *Two-year outcomes of infants enrolled in the first-in-human study of amnion cells for bronchopulmonary dysplasia*. Stem Cells Transl Med, 2019.
214. Maurer, E., et al., *Hypoxia Decreases Diagnostic Biomarkers for Aspergillosis In Vitro*. J Fungi (Basel), 2019. **5**(3): p. 61.
215. Mendez-Sanchez, J.F. and W.W. Burggren, *Hypoxia-induced developmental plasticity of larval growth, gill and labyrinth organ morphometrics in two anabantoid fish: The facultative air-breather Siamese fighting fish (Betta splendens) and the obligate air-breather the blue gourami (Trichopodus trichopterus)*. J Morphol, 2019. **280**(2): p. 193-204.
216. Menneteau, T., et al., *Mass Spectrometry-based Absolute Quantification of 20S Proteasome Status for Controlled Ex-vivo Expansion of Human Adipose-derived Mesenchymal Stromal/Stem Cells*. Mol Cell Proteomics, 2019. **18**(4): p. 744-759.
217. Mezu-Ndubuisi, O.J., et al., *Simultaneous assessment of aberrant retinal vascularization, thickness, and function in an in vivo mouse oxygen-induced retinopathy model*. Eye (Lond), 2019. **33**(3): p. 363-373.
218. Mezu-Ndubuisi, O.J., et al., *Intravitreal Delivery of VEGF-A165-loaded PLGA Microparticles Reduces Retinal Vaso-Obliteration in an In Vivo Mouse Model of Retinopathy of Prematurity*. Curr Eye Res, 2019. **44**(3): p. 275-286.
219. Mian, M.O.R., et al., *TLR (Toll-Like Receptor) 4 Antagonism Prevents Left Ventricular Hypertrophy and Dysfunction Caused by Neonatal Hyperoxia Exposure in Rats*. Hypertension, 2019. **74**(4): p. 843-853.
220. Mobius, M.A., et al., *Oxygen Disrupts Human Fetal Lung Mesenchymal Cells. Implications for Bronchopulmonary Dysplasia*. Am J Respir Cell Mol Biol, 2019. **60**(5): p. 592-600.
221. Monteiro, L.J., et al., *Reduced FOXM1 expression limits trophoblast migration and angiogenesis and is associated with preeclampsia*. Reproductive Sciences, 2019. **26**(5): p. 580-590.
222. Moreira, A., et al., *Intranasal delivery of human umbilical cord Wharton's jelly mesenchymal stromal cells restores lung alveolarization and vascularization in experimental bronchopulmonary dysplasia*. Stem Cells Transl Med, 2019.
223. Moriyama, M., et al., *Adipose-derived stromal/stem cells improve epidermal homeostasis*. Sci Rep, 2019. **9**(1): p. 18371.
224. Mount, S., et al., *Physiologic expansion of human heart-derived cells enhances therapeutic repair of injured myocardium*. Stem Cell Res Ther, 2019. **10**(1): p. 316.
225. Murinello, S., et al., *miR-30a-5p inhibition promotes interaction of Fas(+) endothelial cells and FasL(+) microglia to decrease pathological neovascularization and promote physiological angiogenesis*. Glia, 2019. **67**(2): p. 332-344.
226. Nakamura, S., et al., *Nrf2 Activator RS9 Suppresses Pathological Ocular Angiogenesis and Hyperpermeability*. Invest Ophthalmol Vis Sci, 2019. **60**(6): p. 1943-1952.

227. Nasyrov, E., et al., *The neuronal oxygen-sensing pathway controls postnatal vascularization of the murine brain*. FASEB J, 2019. **33**(11): p. 12812-12824.
228. Nikolic, I., et al., *Bone Morphogenetic Protein 9 Is a Mechanistic Biomarker of Portopulmonary Hypertension*. Am J Respir Crit Care Med, 2019. **199**(7): p. 891-902.
229. Ning, F., et al., *Hypoxia enhances CD8(+) TC2 cell-dependent airway hyperresponsiveness and inflammation through hypoxia-inducible factor 1alpha*. J Allergy Clin Immunol, 2019. **143**(6): p. 2026-2037 e7.
230. Nonn, O., et al., *Placental CX3CL1 is deregulated by angiotensin II and contributes to a pro-inflammatory trophoblast-monocyte interaction*. International journal of molecular sciences, 2019. **20**(3): p. 641.
231. Obradovic, H., et al., *Improving stemness and functional features of mesenchymal stem cells from Wharton's jelly of a human umbilical cord by mimicking the native, low oxygen stem cell niche*. Placenta, 2019. **82**: p. 25-34.
232. Ock, S., et al., *RANKL blockade suppresses pathological angiogenesis and vascular leakage in ischemic retinopathy*. Biochem Biophys Res Commun, 2019. **516**(2): p. 350-356.
233. Oleaga, C., et al., *A human in vitro platform for the evaluation of pharmacology strategies in cardiac ischemia*. APL Bioeng, 2019. **3**(3): p. 036103.
234. O'Leary, C., et al., *Involvement of TRPV1 and TRPV4 Channels in Retinal Angiogenesis*. Invest Ophthalmol Vis Sci, 2019. **60**(10): p. 3297-3309.
235. O'Leary, O.E., et al., *The vasoreparative potential of endothelial colony-forming cells in the ischemic retina is enhanced by cibinetide, a non-hematopoietic erythropoietin mimetic*. Exp Eye Res, 2019. **182**: p. 144-155.
236. O'Neill, J., et al., *Renal cortical oxygen tension is decreased following exposure to long-term but not short-term intermittent hypoxia in the rat*. Am J Physiol Renal Physiol, 2019. **316**(4): p. F635-F645.
237. Pagé, M., et al., *CD34 regulates the skeletal muscle response to hypoxia*. Journal of Muscle Research and Cell Motility, 2019: p. 1-10.
238. Patil, S.S., et al., *Alda-1 attenuates hyperoxia-induced mitochondrial dysfunction in lung vascular endothelial cells*. Aging (Albany NY), 2019. **11**(12): p. 3909-3918.
239. Peloquin, G.L., et al., *SU5416 does not attenuate early RV angiogenesis in the murine chronic hypoxia PH model*. Respir Res, 2019. **20**(1): p. 123.
240. Poletto Bonetto, J.H., et al., *Impact of early life AT1 blockade on adult cardiac morpho-functional changes and the renin-angiotensin system in a model of neonatal high oxygen-induced cardiomyopathy*. Eur J Pharmacol, 2019. **860**: p. 172585.
241. Porzionato, A., et al., *Intratracheal administration of clinical-grade mesenchymal stem cell-derived extracellular vesicles reduces lung injury in a rat model of bronchopulmonary dysplasia*. Am J Physiol Lung Cell Mol Physiol, 2019. **316**(1): p. L6-L19.
242. Qian, X., et al., *Respiratory hyperoxia reverses immunosuppression by regulating myeloid-derived suppressor cells and PD-L1 expression in a triple-negative breast cancer mouse model*. Am J Cancer Res, 2019. **9**(3): p. 529-545.

243. Qiu, J., et al., *delta-Opioid Receptor-Nrf-2-Mediated Inhibition of Inflammatory Cytokines in Neonatal Hypoxic-Ischemic Encephalopathy*. Mol Neurobiol, 2019. **56**(7): p. 5229-5240.
244. Rafikov, R., et al., *INOSITOL MONOPHOSPHATASE 1 (IMPA1) AS A NOVEL INTERACTING PARTNER OF RAGE IN PULMONARY HYPERTENSION*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2019.
245. Rashid, J., et al., *Inhaled combination of sildenafil and rosiglitazone improves pulmonary hemodynamics, cardiac function, and arterial remodeling*. Am J Physiol Lung Cell Mol Physiol, 2019. **316**(1): p. L119-L130.
246. Rashid, J., et al., *Translational Physiology: Inhaled combination of sildenafil and rosiglitazone improves pulmonary hemodynamics, cardiac function, and arterial remodeling*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2019. **316**(1): p. L119.
247. Rempel, L.C.T., et al., *Chronic exposure to hypoxia attenuates renal injury and innate immunity activation in the remnant kidney model*. Am J Physiol Renal Physiol, 2019. **317**(5): p. F1285-F1292.
248. Ribon-Demars, A., et al., *Protective roles of estradiol against vascular oxidative stress in ovariectomized female rats exposed to normoxia or intermittent hypoxia*. Acta Physiol (Oxf), 2019. **225**(2): p. e13159.
249. Romanowicz, J., et al., *Treatment With Tetrahydrobiopterin Improves White Matter Maturation in a Mouse Model for Prenatal Hypoxia in Congenital Heart Disease*. J Am Heart Assoc, 2019. **8**(15): p. e012711.
250. Roque III, J., et al., *Strained, Photoejecting Ru (II) Complexes that are Cytotoxic Under Hypoxic Conditions*. Photochemistry and photobiology, 2019.
251. Rudyk, O., et al., *Oxidation of PKG1alpha mediates an endogenous adaptation to pulmonary hypertension*. Proc Natl Acad Sci U S A, 2019. **116**(26): p. 13016-13025.
252. Ruyle, B.C., et al., *The PVN enhances cardiorespiratory responses to acute hypoxia via input to the nTS*. Am J Physiol Regul Integr Comp Physiol, 2019. **317**(6): p. R818-R833.
253. Sadler, K.E., et al., *Gabapentin alleviates chronic spontaneous pain and acute hypoxia-related pain in a mouse model of sickle cell disease*. Br J Haematol, 2019. **187**(2): p. 246-260.
254. Saforo, D., et al., *Primary lung cancer samples cultured under microenvironment-mimetic conditions enrich for mesenchymal stem-like cells that promote metastasis*. Sci Rep, 2019. **9**(1): p. 4177.
255. Salazar, C., et al., *The OXPHOS supercomplex assembly factor HIG2A responds to changes in energetic metabolism and cell cycle*. J Cell Physiol, 2019. **234**(10): p. 17405-17419.
256. Scheuer, T., et al., *Transient Improvement of Cerebellar Oligodendroglial Development in a Neonatal Hyperoxia Model by PDGFA Treatment*. Dev Neurobiol, 2019. **79**(3): p. 222-235.
257. Sharma, S., et al., *Mitochondrial hypoxic stress induces widespread RNA editing by APOBEC3G in natural killer cells*. Genome Biol, 2019. **20**(1): p. 37.

258. Shigemura, M., et al., *Elevated CO₂ regulates the Wnt signaling pathway in mammals, Drosophila melanogaster and Caenorhabditis elegans*. Sci Rep, 2019. **9**(1): p. 18251.
259. Shults, N.V., et al., *Ultrastructural Changes of the Right Ventricular Myocytes in Pulmonary Arterial Hypertension*. J Am Heart Assoc, 2019. **8**(5): p. e011227.
260. Simning, D., et al., *The combined effects of salinity, hypoxia, and oil exposure on survival and gene expression in developing sheepshead minnows, Cyprinodon variegatus*. Aquat Toxicol, 2019. **214**: p. 105234.
261. Singh, C., et al., *Serine and 1-carbon metabolism are required for HIF-mediated protection against retinopathy of prematurity*. JCI Insight, 2019. **4**(14).
262. Solingapuram Sai, K.K., et al., *Initial biological evaluations of (18)F-KS1, a novel ascorbate derivative to image oxidative stress in cancer*. EJNMMI Res, 2019. **9**(1): p. 43.
263. Souza, G.M., et al., *Pre-and post-inspiratory neurons change their firing properties in female rats exposed to chronic intermittent hypoxia*. Neuroscience, 2019. **406**: p. 467-486.
264. Steele, A.N., et al., *A Biocompatible Therapeutic Catheter-Deliverable Hydrogel for In Situ Tissue Engineering*. Advanced Healthcare Materials, 2019. **8**(5): p. 1801147.
265. Sun, H., et al., *ESM-1 promotes adhesion between monocytes and endothelial cells under intermittent hypoxia*. J Cell Physiol, 2019. **234**(2): p. 1512-1521.
266. Swaminathan, G., et al., *Hypoxia Stimulates Synthesis of Neutrophil Gelatinase-Associated Lipocalin in Aortic Valve Disease*. Front Cardiovasc Med, 2019. **6**: p. 156.
267. Sweeney, N.W., et al., *Hypoxia Suppresses High Fat Diet-Induced Steatosis And Development Of Hepatic Adenomas*. Hypoxia, 2019. **7**: p. 53.
268. Tajiri, A., H. Higuchi, and T. Miyawaki, *Hyperoxia reduces salivary secretion by inducing oxidative stress in mice*. Arch Oral Biol, 2019. **98**: p. 38-46.
269. Tan, Z., et al., *Environmental stresses induce karyotypic instability in colorectal cancer cells*. Mol Biol Cell, 2019. **30**(1): p. 42-55.
270. Tedesco, L., et al., *von Hippel-Lindau mutants in renal cell carcinoma are regulated by increased expression of RSUME*. Cell Death Dis, 2019. **10**(4): p. 266.
271. Tejero, R., et al., *Gene signatures of quiescent glioblastoma cells reveal mesenchymal shift and interactions with niche microenvironment*. EBioMedicine, 2019. **42**: p. 252-269.
272. Tiono, J., et al., *Mouse genetic background impacts susceptibility to hyperoxia-driven perturbations to lung maturation*. Pediatr Pulmonol, 2019. **54**(7): p. 1060-1077.
273. Tisch, N., et al., *Caspase-8 modulates physiological and pathological angiogenesis during retina development*. J Clin Invest, 2019. **129**(12): p. 5092-5107.
274. Tornabene, E., et al., *Effects of oxygen-glucose deprivation (OGD) on barrier properties and mRNA transcript levels of selected marker proteins in brain endothelial cells/astrocyte co-cultures*. PLoS One, 2019. **14**(8): p. e0221103.

275. Tripathi, A., et al., *Intermittent Hypoxia and Hypercapnia Reproducibly Change the Gut Microbiome and Metabolome across Rodent Model Systems*. mSystems, 2019. **4**(2): p. e00058-19.
276. Tsai, M.-J., et al., *Attenuating spinal cord injury by conditioned medium from bone marrow mesenchymal stem cells*. Journal of clinical medicine, 2019. **8**(1): p. 23.
277. Vera, N., et al., *Small Extracellular Vesicles Released from Ovarian Cancer Spheroids in Response to Cisplatin Promote the Pro-Tumorigenic Activity of Mesenchymal Stem Cells*. Int J Mol Sci, 2019. **20**(20): p. 4972.
278. Vijayan, M., et al., *Novel miRNA PC-5P-12969 in Ischemic Stroke*. Mol Neurobiol, 2019. **56**(10): p. 6976-6985.
279. Wall, S.B., et al., *Thioredoxin Reductase-1 Inhibition Augments Endogenous Glutathione-Dependent Antioxidant Responses in Experimental Bronchopulmonary Dysplasia*. Oxid Med Cell Longev, 2019. **2019**: p. 7945983.
280. Wang, J., et al., *Glucagon-like peptide-1 (GLP-1) mediates the protective effects of dipeptidyl peptidase IV inhibition on pulmonary hypertension*. J Biomed Sci, 2019. **26**(1): p. 6.
281. Wang, Y., et al., *Drag-reducing polymers attenuates pulmonary vascular remodeling and right ventricular dysfunction in a rat model of chronic hypoxia-induced pulmonary hypertension*. Clin Hemorheol Microcirc, 2019(Preprint): p. 1-12.
282. Wang, Z., et al., *Divergent changes of p53 in pulmonary arterial endothelial and smooth muscle cells involved in the development of pulmonary hypertension*. Am J Physiol Lung Cell Mol Physiol, 2019. **316**(1): p. L216-L228.
283. Wedgwood, S., et al., *The developing gut–lung axis: postnatal growth restriction, intestinal dysbiosis, and pulmonary hypertension in a rodent model*. Pediatric research, 2019: p. 1-8.
284. Wei, Y., et al., *Hypoxia-induced circular RNA has_circRNA_403658 promotes bladder cancer cell growth through activation of LDHA*. American Journal of Translational Research, 2019. **11**(11): p. 6838.
285. Weiner, G.A., et al., *Cholinergic neural activity directs retinal layer-specific angiogenesis and blood retinal barrier formation*. Nat Commun, 2019. **10**(1): p. 2477.
286. Willis, K.A., et al., *Perinatal maternal antibiotic exposure augments lung injury in offspring in experimental bronchopulmonary dysplasia*. Am J Physiol Lung Cell Mol Physiol, 2019. **0**(0): p. null.
287. Wu, C., et al., *Tangeretin protects human brain microvascular endothelial cells against oxygen-glucose deprivation-induced injury*. J Cell Biochem, 2019. **120**(4): p. 4883-4891.
288. Wulftange, W.J., et al., *Spatial control of oxygen delivery to three-dimensional cultures alters cancer cell growth and gene expression*. J Cell Physiol, 2019. **234**(11): p. 20608-20622.
289. Xu, R., et al., *The role of the XBP-1/AGR2 signaling pathway in the regulation of airway Mucin5ac hypersecretion under hypoxia*. Exp Cell Res, 2019. **382**(1): p. 111442.

290. Xu, W., et al., *TRAF1 Exacerbates Myocardial Ischemia Reperfusion Injury via ASK1-JNK/p38 Signaling*. J Am Heart Assoc, 2019. **8**(21): p. e012575.
291. Xu, X., et al., *Early Enzyme Replacement Therapy Improves Hearing and Immune Defects in Adenosine Deaminase Deficient-Mice*. Frontiers in immunology, 2019. **10**.
292. Yadav, A.K., et al., *An Activity-based Sensing Approach for the Detection of Cyclooxygenase-2 in Live Cells*. Angew Chem Int Ed Engl, 2019. **n/a**(n/a).
293. Yang, F., et al., *Leptin enhances glycolysis via OPA1-mediated mitochondrial fusion to promote mesenchymal stem cell survival*. Int J Mol Med, 2019. **44**(1): p. 301-312.
294. Yang, L., et al., *Creg in Hepatocytes Ameliorates Liver Ischemia/Reperfusion Injury in a TAK1-Dependent Manner in Mice*. Hepatology, 2019. **69**(1): p. 294-313.
295. Yao, H., et al., *Fatty Acid Oxidation Protects against Hyperoxia-induced Endothelial Cell Apoptosis and Lung Injury in Neonatal Mice*. Am J Respir Cell Mol Biol, 2019. **60**(6): p. 667-677.
296. Yim, H.E., et al., *Controlled Delivery of Stem Cell-Derived Trophic Factors Accelerates Kidney Repair After Renal Ischemia-Reperfusion Injury in Rats*. Stem Cells Transl Med, 2019. **8**(9): p. 959-970.
297. Yoon, D.W., et al., *Intermittent hypoxia promotes carcinogenesis in azoxymethane and dextran sodium sulfate-induced colon cancer model*. Mol Carcinog, 2019. **58**(5): p. 654-665.
298. Yu, S., et al., *Hypoxia-induced miR-191-C/EBPbeta signaling regulates cell proliferation and apoptosis of fibroblast-like synoviocytes from patients with rheumatoid arthritis*. Arthritis Res Ther, 2019. **21**(1): p. 78.
299. Yuan, X., et al., *Aggregation of human mesenchymal stem cells enhances survival and efficacy in stroke treatment*. Cytotherapy, 2019. **21**(10): p. 1033-1048.
300. Zaitoun, I.S., et al., *Bcl-2 Expression in Pericytes and Astrocytes Impacts Vascular Development and Homeostasis*. Sci Rep, 2019. **9**(1): p. 9700.
301. Zambuto, S.G., et al., *Response of neuroglia to hypoxia-induced oxidative stress using enzymatically crosslinked hydrogels*. MRS Communications, 2019: p. 1-8.
302. Zasada, M., et al., *Short-and long-term impact of hyperoxia on the blood and retinal cells' transcriptome in a mouse model of oxygen-induced retinopathy*. Pediatric research, 2019: p. 1-9.
303. Zhang, D., et al., *lncRNA HOTAIR Protects Myocardial Infarction Rat by Sponging miR-519d-3p*. J Cardiovasc Transl Res, 2019. **12**(3): p. 171-183.
304. Zhang, F., B. Fan, and L. Mao, *Radiosensitizing effects of Cyclocarya paliurus polysaccharide on hypoxic A549 and H520 human non-small cell lung carcinoma cells*. Int J Mol Med, 2019. **44**(4): p. 1233-1242.
305. Zhang, J., et al., *Curcumin improves perfusion recovery in experimental peripheral arterial disease by upregulating microRNA-93 expression*. Exp Ther Med, 2019. **17**(1): p. 798-802.

306. Zhang, Q.-Y., et al., *Neuroprotective Effect of SCM-198 through Stabilizing Endothelial Cell Function*. Oxidative Medicine and Cellular Longevity, 2019. **2019**.
307. Zhang, X., et al., *Adiponectin relieves human adult cardiac myocytes injury induced by intermittent hypoxia*. Medical science monitor: international medical journal of experimental and clinical research, 2019. **25**: p. 786.
308. Zhao, S., et al., *Placental growth factor gene silencing mitigates the epithelial-to-mesenchymal transition via the p38 MAPK pathway in rats with hyperoxia-induced lung injury*. Molecular medicine reports, 2019. **20**(6): p. 4867-4874.
309. Zheng, J., et al., *Nrdp1 is involved in hippocampus apoptosis in cardiopulmonary bypass-induced cognitive dysfunction via the regulation of ErbB3 protein levels*. International journal of molecular medicine, 2019. **43**(4): p. 1747-1757.
310. Zhou, F., et al., *Prevascularized mesenchymal stem cell-sheets increase survival of random skin flaps in a nude mouse model*. Am J Transl Res, 2019. **11**(3): p. 1403-1416.
311. Zhou, Y., A.M. Richards, and P. Wang, *MicroRNA-221 Is Cardioprotective and Anti-fibrotic in a Rat Model of Myocardial Infarction*. Mol Ther Nucleic Acids, 2019. **17**: p. 185-197.
312. Zhu, X. and X. Lu, *MiR-423-5p inhibition alleviates cardiomyocyte apoptosis and mitochondrial dysfunction caused by hypoxia/reoxygenation through activation of the wnt/beta-catenin signaling pathway via targeting MYBL2*. J Cell Physiol, 2019. **234**(12): p. 22034-22043.
313. Zoccal, D.B., et al., *Centrally acting adrenomedullin in the long-term potentiation of sympathetic vasoconstrictor activity induced by intermittent hypoxia in rats*. Exp Physiol, 2019. **104**(9): p. 1371-1383.
314. Abid, S., et al., *New Nitric Oxide Donor NCX 1443: Therapeutic Effects on Pulmonary Hypertension in the SAD Mouse Model of Sickle Cell Disease*. J Cardiovasc Pharmacol, 2018. **71**(5): p. 283-292.
315. Abu Eid, S., et al., *Life Under Hypoxia Lowers Blood Glucose Independently of Effects on Appetite and Body Weight in Mice*. Front Endocrinol (Lausanne), 2018. **9**: p. 490.
316. Ahmed, H.A., et al., *RAS modulation prevents progressive cognitive impairment after experimental stroke: a randomized, blinded preclinical trial*. J Neuroinflammation, 2018. **15**(1): p. 229.
317. Al-Ahmad, A.J., et al., *Hyaluronan impairs the barrier integrity of brain microvascular endothelial cell through a CD44-dependent pathway*. Journal of Cerebral Blood Flow & Metabolism, 2018: p. 0271678X18767748.
318. Al-Anazi, A., et al., *Intracellular calcium and NF-kB regulate hypoxia-induced leptin, VEGF, IL-6 and adiponectin secretion in human adipocytes*. Life Sci, 2018. **212**: p. 275-284.
319. Al-Anazi, A., et al., *Data on hypoxia-induced VEGF, leptin and NF-kB p65 expression*. Data Brief, 2018. **21**: p. 2395-2397.

320. Alencar, A.K.N., et al., *Human Mesenchymal Stem Cell Therapy Reverses Su5416/Hypoxia-Induced Pulmonary Arterial Hypertension in Mice*. Front Pharmacol, 2018. **9**: p. 1395.
321. Allawzi, A.M., et al., *Activation of anoctamin-1 limits pulmonary endothelial cell proliferation via p38–mitogen-activated protein kinase–dependent apoptosis*. American journal of respiratory cell and molecular biology, 2018. **58**(5): p. 658-667.
322. Allwood, M.A., et al., *Moderate and severe hypoxia elicit divergent effects on cardiovascular function and physiological rhythms*. J Physiol, 2018. **596**(15): p. 3391-3410.
323. Anderson, D.E., et al., *Physioxia Promotes the Articular Chondrocyte-Like Phenotype in Human Chondroprogenitor-Derived Self-Organized Tissue*. Tissue Eng Part A, 2018. **24**(3-4): p. 264-274.
324. Augstein, P., et al., *Characterization of the Human Pancreas Side Population as a Potential Reservoir of Adult Stem Cells*. Pancreas, 2018. **47**(1): p. 25-34.
325. Avezov, K., L. Lavie, and D. Aizenbud, *Intermittent Hypoxia and Unsaturated Aldehydes: Effects on Oral Epithelial Wound Healing*. Adv Exp Med Biol, 2018. **1023**: p. 47-54.
326. Bargiela, D., S.P. Burr, and P.F. Chinnery, *Mitochondria and Hypoxia: Metabolic Crosstalk in Cell-Fate Decisions*. Trends Endocrinol Metab, 2018. **29**(4): p. 249-259.
327. Barnes, J. and R.C. Upstill-Goddard, *The denitrification paradox: The role of O₂ in sediment N₂O production*. Estuarine, Coastal and Shelf Science, 2018. **200**: p. 270-276.
328. Barreto Ortiz, S., et al., *Opsin 3 and 4 mediate light-induced pulmonary vasorelaxation that is potentiated by G protein-coupled receptor kinase 2 inhibition*. Am J Physiol Lung Cell Mol Physiol, 2018. **314**(1): p. L93-L106.
329. Becker, S., et al., *Targeted Knockdown of Overexpressed VEGFA or VEGF164 in Muller cells maintains retinal function by triggering different signaling mechanisms*. Sci Rep, 2018. **8**(1): p. 2003.
330. Beharry, K.D., et al., *Impact of Chronic Neonatal Intermittent Hypoxia on Severity of Retinal Damage in a Rat Model of Oxygen-Induced Retinopathy*. J Nat Sci, 2018. **4**(3).
331. Beharry, K.D., et al., *Oxygen-induced retinopathy from recurrent intermittent hypoxia is not dependent on resolution with room air or oxygen, in neonatal rats*. International journal of molecular sciences, 2018. **19**(5): p. 1337.
332. Beharry, K.D., et al., *Intermittent hypoxia alters dose dependent caffeine effects on renal prostanoids and receptors in neonatal rats*. Prostaglandins Other Lipid Mediat, 2018. **134**: p. 57-65.
333. Beharry, K.D., et al., *Human retinal endothelial cells and astrocytes cultured on 3-D scaffolds for ocular drug discovery and development*. Prostaglandins Other Lipid Mediat, 2018. **134**: p. 93-107.
334. Benyamine, A., et al., *BTN3A is a prognosis marker and a promising target for Vγ9Vδ2 T cells based-immunotherapy in pancreatic ductal adenocarcinoma (PDAC)*. Oncoimmunology, 2018. **7**(1): p. e1372080.

335. Bergholt, N.L., et al., *Surface chemistry, substrate, and topography guide the behavior of human articular chondrocytes cultured in vitro*. J Biomed Mater Res A, 2018. **106**(11): p. 2805-2816.
336. Bernstock, J.D., et al., *Quantitative high-throughput screening identifies cytoprotective molecules that enhance SUMO conjugation via the inhibition of SUMO-specific protease (SEN)2*. FASEB J, 2018. **32**(3): p. 1677-1691.
337. Bik-Multanowski, M., et al., *Hyperoxia induces epigenetic changes in newborn mice lungs*. Free Radic Biol Med, 2018. **121**: p. 51-56.
338. Binder, U., et al., *Generation of a Mucor circinelloides reporter strain—a promising new tool to study antifungal drug efficacy and mucormycosis*. Genes, 2018. **9**(12): p. 613.
339. Bordt, E.A., *The importance of controlling in vitro oxygen tension to accurately model in vivo neurophysiology*. Neurotoxicology, 2018. **66**: p. 213-220.
340. Boregowda, S.V., et al., *Basal p53 expression is indispensable for mesenchymal stem cell integrity*. Cell Death & Differentiation, 2018. **25**(4): p. 679-692.
341. Bourdieu, A., et al., *Steady state peripheral blood provides cells with functional and metabolic characteristics of real hematopoietic stem cells*. J Cell Physiol, 2018. **233**(1): p. 338-349.
342. Burman, A., et al., *Localized hypoxia links ER stress to lung fibrosis through induction of C/EBP homologous protein*. JCI insight, 2018. **3**(16).
343. Burnight, E.R., et al., *CRISPR-Cas9-Mediated Correction of the 1.02 kb Common Deletion in CLN3 in Induced Pluripotent Stem Cells from Patients with Batten Disease*. CRISPR J, 2018. **1**(1): p. 75-87.
344. Burnight, E.R., et al., *CRISPR-Cas9 genome engineering: Treating inherited retinal degeneration*. Prog Retin Eye Res, 2018. **65**: p. 28-49.
345. Burr, S., et al., *Oxygen gradients can determine epigenetic asymmetry and cellular differentiation via differential regulation of Tet activity in embryonic stem cells*. Nucleic Acids Res, 2018. **46**(3): p. 1210-1226.
346. Cahill, L.S., et al., *Feto- and utero-placental vascular adaptations to chronic maternal hypoxia in the mouse*. J Physiol, 2018. **596**(15): p. 3285-3297.
347. Chang, C.W., A.K. Wakeland, and M.M. Parast, *Trophoblast lineage specification, differentiation and their regulation by oxygen tension*. J Endocrinol, 2018. **236**(1): p. R43-R56.
348. Chang, J.L., et al., *Intrauterine Growth Restriction and Hyperoxia as a Cause of White Matter Injury*. Developmental neuroscience, 2018: p. 1-14.
349. Chang, W.-T., et al., *MicroRNA-21 is Associated with the Severity of Right Ventricular Dysfunction in Patients with Hypoxia-Induced Pulmonary Hypertension*. Acta Cardiologica Sinica, 2018. **34**(6): p. 511.
350. Chao, C.M., et al., *Neonatal exposure to hyperoxia leads to persistent disturbances in pulmonary histone signatures associated with NOS3 and STAT3 in a mouse model*. Clin Epigenetics, 2018. **10**(1): p. 37.
351. Chaqour, J., et al., *Abscisic acid: an antiangiogenic phytohormone that modulates the phenotypical plasticity of endothelial cells and macrophages*. J Cell Sci, 2018: p. jcs. 210492.

- 352. Chau, M.J., et al., *Delayed and repeated intranasal delivery of bone marrow stromal cells increases regeneration and functional recovery after ischemic stroke in mice*. BMC Neurosci, 2018. **19**(1): p. 20.
- 353. Chaubey, S., et al., *Early gestational mesenchymal stem cell secretome attenuates experimental bronchopulmonary dysplasia in part via exosome-associated factor TSG-6*. Stem Cell Res Ther, 2018. **9**(1): p. 173.
- 354. Chaudhary, K.R., et al., *Efficacy of treprostinil in the SU5416-hypoxia model of severe pulmonary arterial hypertension: haemodynamic benefits are not associated with improvements in arterial remodelling*. Br J Pharmacol, 2018. **175**(20): p. 3976-3989.
- 355. Chen, C.-M., et al., *Tn (N-acetyl-d-galactosamine-O-serine/threonine) immunization protects against hyperoxia-induced lung injury in adult mice through inhibition of the nuclear factor kappa B activity*. International immunopharmacology, 2018. **59**: p. 261-268.
- 356. Chen, J.E., et al., *Hypoxia activates enhanced invasive potential and endogenous hyaluronic acid production by glioblastoma cells*. Biomater Sci, 2018. **6**(4): p. 854-862.
- 357. Chen, L., et al., *MicroRNA-133a impairs perfusion recovery after hindlimb ischemia in diabetic mice*. Biosci Rep, 2018. **38**(4).
- 358. Cheon, I.S., et al., *Neonatal hyperoxia promotes asthma-like features through IL-33-dependent ILC2 responses*. J Allergy Clin Immunol, 2018. **142**(4): p. 1100-1112.
- 359. Chihanga, T., et al., *NMR-based urine metabolic profiling and immunohistochemistry analysis of nephron changes in a mouse model of hypoxia-induced acute kidney injury*. Am J Physiol Renal Physiol, 2018. **315**(4): p. F1159-F1173.
- 360. Cho, B., et al., *Systemic control of immune cell development by integrated carbon dioxide and hypoxia chemosensation in Drosophila*. Nat Commun, 2018. **9**(1): p. 2679.
- 361. Christou, H., et al., *Impaired pulmonary arterial vasoconstriction and nitric oxide-Mediated relaxation underlie severe pulmonary hypertension in the sugen-Hypoxia rat model*. Journal of Pharmacology and Experimental Therapeutics, 2018. **364**(2): p. 258-274.
- 362. Coelho, N.R., et al., *Cysteine Oxidative Dynamics Underlies Hypertension and Kidney Dysfunction Induced by Chronic Intermittent Hypoxia*. Adv Exp Med Biol, 2018. **1071**: p. 83-88.
- 363. Crassini, K., et al., *The dual inhibitor of the phosphoinositol-3 and PIM kinases, IBL-202, is effective against chronic lymphocytic leukaemia cells under conditions that mimic the hypoxic tumour microenvironment*. Br J Haematol, 2018. **182**(5): p. 654-669.
- 364. Dai, J., et al., *Alpha-enolase regulates the malignant phenotype of pulmonary artery smooth muscle cells via the AMPK-Akt pathway*. Nat Commun, 2018. **9**(1): p. 3850.
- 365. Dai, J., et al., *Smooth muscle cell-specific FoxM1 controls hypoxia-induced pulmonary hypertension*. Cell Signal, 2018. **51**: p. 119-129.

366. Dai, Z., et al., *Therapeutic Targeting of Vascular Remodeling and Right Heart Failure in Pulmonary Arterial Hypertension with a HIF-2alpha Inhibitor*. Am J Respir Crit Care Med, 2018. **198**(11): p. 1423-1434.
367. Das, M., et al., *JNK2 regulates vascular remodeling in pulmonary hypertension*. Pulm Circ, 2018. **8**(3): p. 2045894018778156.
368. de Oliveira, R.W., et al., *Chronic intermittent hypoxia induces changes on the expression and activity of neprilysin (EC 3.4. 24.16) in the brain of rats*. Neuroscience Letters, 2018.
369. de Theije, C.C., et al., *Glucocorticoid Receptor Signaling Impairs Protein Turnover Regulation in Hypoxia-Induced Muscle Atrophy in Male Mice*. Endocrinology, 2018. **159**(1): p. 519-534.
370. de Theije, C.C., et al., *Hypoxia impairs adaptation of skeletal muscle protein turnover- and AMPK signaling during fasting-induced muscle atrophy*. PLoS One, 2018. **13**(9): p. e0203630.
371. Devlin, M.J., et al., *Differential effects of high fat diet and diet-induced obesity on skeletal acquisition in female C57BL/6J vs. FVB/NJ Mice*. Bone Rep, 2018. **8**: p. 204-214.
372. Ding, H.-G., et al., *Hypercapnia induces IL-1 β overproduction via activation of NLRP3 inflammasome: implication in cognitive impairment in hypoxemic adult rats*. Journal of Neuroinflammation, 2018. **15**(1): p. 4.
373. Dorayappan, K.D.P., et al., *Hypoxia-induced exosomes contribute to a more aggressive and chemoresistant ovarian cancer phenotype: a novel mechanism linking STAT3/Rab proteins*. Oncogene, 2018. **37**(28): p. 3806-3821.
374. Dunn, R., et al., *Divergent effects of levetiracetam and tiagabine against spontaneous seizures in adult rats following neonatal hypoxia*. Epilepsy Res, 2018. **140**: p. 1-7.
375. Dvorianchikova, G., et al., *Pannexin 1 sustains the electrophysiological responsiveness of retinal ganglion cells*. Sci Rep, 2018. **8**(1): p. 5797.
376. Elamaa, H., et al., *Angiopoietin-4-dependent venous maturation and fluid drainage in the peripheral retina*. Elife, 2018. **7**: p. e37776.
377. Elliot-Portal, E., et al., *Brain-derived erythropoietin protects from intermittent hypoxia-induced cardiorespiratory dysfunction and oxidative stress in mice*. Sleep, 2018. **41**(7).
378. Elshaer, S.L. and A.B. El-Remessy, *Deletion of p75 NTR prevents vaso-obliteration and retinal neovascularization via activation of Trk-A receptor in ischemic retinopathy model*. Scientific reports, 2018. **8**(1): p. 12490.
379. Fan, W.L., et al., *Transplantation of hypoxic preconditioned neural stem cells benefits functional recovery via enhancing neurotrophic secretion after spinal cord injury in rats*. J Cell Biochem, 2018. **119**(6): p. 4339-4351.
380. Feng, Q., et al., *Hypoxia-specific therapeutic agents delivery nanotheranostics: A sequential strategy for ultrasound mediated on-demand tritherapies and imaging of cancer*. J Control Release, 2018. **275**: p. 192-200.
381. Flor, K.C., et al., *Short-term sustained hypoxia elevates basal and hypoxia-induced ventilation but not the carotid body chemoreceptor activity in rats*. Frontiers in physiology, 2018. **9**: p. 134.

382. Flores-Santin, J., et al., *Hematology from embryo to adult in the bobwhite quail (Colinus virginianus): Differential effects in the adult of clutch, sex and hypoxic incubation*. Comp Biochem Physiol A Mol Integr Physiol, 2018. **218**: p. 24-34.
383. Foxler, D.E., et al., *A HIF-LIMD1 negative feedback mechanism mitigates the pro-tumorigenic effects of hypoxia*. EMBO Mol Med, 2018. **10**(8).
384. Frille, A., et al., *No erythropoietin-induced growth is observed in non-small cell lung cancer cells*. International journal of oncology, 2018. **52**(2): p. 518-526.
385. Gagner, J.P., M. Lechpammer, and D. Zagzag, *Induction and Assessment of Hypoxia in Glioblastoma Cells In Vitro*. Methods Mol Biol, 2018. **1741**: p. 111-123.
386. Gallo, S., et al., *Upregulation of the alternative splicing factor NOVA2 in colorectal cancer vasculature*. Onco Targets Ther, 2018. **11**: p. 6049-6056.
387. Gao, J., et al., *The midline axon crossing decision is regulated through an activity-dependent mechanism by the NMDA receptor*. eNeuro, 2018. **5**(2).
388. Gauster, M., et al., *Downregulation of p53 drives autophagy during human trophoblast differentiation*. Cell Mol Life Sci, 2018. **75**(10): p. 1839-1855.
389. Gazdhar, A., et al., *Alpha-Klotho Enrichment in Induced Pluripotent Stem Cell Secretome Contributes to Antioxidative Protection in Acute Lung Injury*. Stem Cells, 2018. **36**(4): p. 616-625.
390. Gerri, C., et al., *Hif-1 α and Hif-2 α regulate hemogenic endothelium and hematopoietic stem cell formation in zebrafish*. Blood, 2018. **131**(9): p. 963-973.
391. Girard-Bock, C., et al., *Endothelial colony-forming cell therapy for heart morphological changes after neonatal high oxygen exposure in rats, a model of complications of prematurity*. Physiol Rep, 2018. **6**(22): p. e13922.
392. Gong, L., et al., *Knockdown of long non-coding RNA MEG3 protects H9c2 cells from hypoxia-induced injury by targeting microRNA-183*. J Cell Biochem, 2018. **119**(2): p. 1429-1440.
393. Gong, T., et al., *Knockdown of KLF5 suppresses hypoxia-induced resistance to cisplatin in NSCLC cells by regulating HIF-1 α -dependent glycolysis through inactivation of the PI3K/Akt/mTOR pathway*. Journal of translational medicine, 2018. **16**(1): p. 164.
394. Grissom, N.M., et al., *Male-specific deficits in natural reward learning in a mouse model of neurodevelopmental disorders*. Mol Psychiatry, 2018. **23**(3): p. 544-555.
395. Gu, J.M., et al., *Blockade of placental growth factor reduces vaso-occlusive complications in murine models of sickle cell disease*. Exp Hematol, 2018. **60**: p. 73-82 e3.
396. Halder, S.K., R. Kant, and R. Milner, *Chronic mild hypoxia promotes profound vascular remodeling in spinal cord blood vessels, preferentially in white matter, via an $\alpha 5\beta 1$ integrin-mediated mechanism*. Angiogenesis, 2018: p. 1-16.
397. Halder, S.K., R. Kant, and R. Milner, *Chronic mild hypoxia increases expression of laminins 111 and 411 and the laminin receptor $\alpha 6\beta 1$ integrin at the blood-brain barrier*. Brain Res, 2018. **1700**: p. 78-85.
398. Halder, S.K., R. Kant, and R. Milner, *Hypoxic pre-conditioning suppresses experimental autoimmune encephalomyelitis by modifying multiple properties of blood vessels*. Acta Neuropathol Commun, 2018. **6**(1): p. 86.

399. Han, Q., et al., *Haemin attenuates intermittent hypoxia-induced cardiac injury via inhibiting mitochondrial fission*. J Cell Mol Med, 2018. **22**(5): p. 2717-2726.
400. Han, S., et al., *Temporal blood flow changes measured by diffuse correlation tomography predict murine femoral graft healing*. PLoS One, 2018. **13**(5): p. e0197031.
401. Harris, E.M., et al., *Preclinical Evaluation of Discorhabdins in Antiangiogenic and Antitumor Models*. Mar Drugs, 2018. **16**(7): p. 241.
402. Harvey, A.J., et al., *Physiological oxygen culture reveals retention of metabolic memory in human induced pluripotent stem cells*. PLoS One, 2018. **13**(3): p. e0193949.
403. Heo, J.H., et al., *Combined Treatment with Low-Level Laser and rhBMP-2 Promotes Differentiation and Mineralization of Osteoblastic Cells under Hypoxic Stress*. Tissue Eng Regen Med, 2018. **15**(6): p. 793-801.
404. Herz, J., et al., *Peripheral T Cell Depletion by FTY720 Exacerbates Hypoxic-Ischemic Brain Injury in Neonatal Mice*. Front Immunol, 2018. **9**: p. 1696.
405. Herz, J., et al., *Interaction between hypothermia and delayed mesenchymal stem cell therapy in neonatal hypoxic-ischemic brain injury*. Brain Behav Immun, 2018. **70**: p. 118-130.
406. Heuslein, J.L., et al., *Exposure of endothelium to biomimetic flow waveforms yields identification of miR-199a-5p as a potent regulator of arteriogenesis*. Molecular Therapy-Nucleic Acids, 2018. **12**: p. 829-844.
407. Heuslein, J.L., et al., *MicroRNA-146a Regulates Perfusion Recovery in Response to Arterial Occlusion via Arteriogenesis*. Front Bioeng Biotechnol, 2018. **6**: p. 1.
408. Hu, H., et al., *Interleukin-22 receptor 1 upregulation and activation in hypoxic endothelial cells improves perfusion recovery in experimental peripheral arterial disease*. Biochem Biophys Res Commun, 2018. **505**(1): p. 60-66.
409. Iizuka, N., et al., *Anti-angiogenic effects of valproic acid in a mouse model of oxygen-induced retinopathy*. J Pharmacol Sci, 2018. **138**(3): p. 203-208.
410. Ikeda, K.T., et al., *Hypoxia-Induced Pulmonary Hypertension in Different Mouse Strains-Relation to Transcriptome*. American journal of respiratory cell and molecular biology, 2018(ja).
411. Jaber, S.M., et al., *Sex differences in the mitochondrial bioenergetics of astrocytes but not microglia at a physiologically relevant brain oxygen tension*. Neurochem Int, 2018. **117**: p. 82-90.
412. Jankov, R.P., et al., *Sodium nitrite augments lung S-nitrosylation and reverses chronic hypoxic pulmonary hypertension in juvenile rats*. Am J Physiol Lung Cell Mol Physiol, 2018. **315**(5): p. L742-L751.
413. Jiang, Y., et al., *Two-pore channels mediated receptor-operated Ca(2+) entry in pulmonary artery smooth muscle cells in response to hypoxia*. Int J Biochem Cell Biol, 2018. **97**: p. 28-35.
414. Jochmans-Lemoine, A., et al., *Divergent mitochondrial antioxidant activities and lung alveolar architecture in the lungs of rats and mice at high altitude*. Frontiers in physiology, 2018. **9**: p. 311.

415. Juch, H., et al., *Dendritic polyglycerol nanoparticles show charge dependent bio-distribution in early human placental explants and reduce hCG secretion*. Nanotoxicology, 2018. **12**(2): p. 90-103.
416. Kadle, R.L., et al., *Microenvironmental cues enhance mesenchymal stem cell-mediated immunomodulation and regulatory T-cell expansion*. PLoS One, 2018. **13**(3): p. e0193178.
417. Kannler, M., et al., *TRPA1 channels: expression in non-neuronal murine lung tissues and dispensability for hyperoxia-induced alveolar epithelial hyperplasia*. Pflugers Arch, 2018. **470**(8): p. 1231-1241.
418. Kim, D.S., et al., *Carbon Monoxide Inhibits Islet Apoptosis via Induction of Autophagy*. Antioxid Redox Signal, 2018. **28**(14): p. 1309-1322.
419. Kim, S.W., et al., *Normobaric hyperoxia inhibits the progression of lung cancer by inducing apoptosis*. Exp Biol Med (Maywood), 2018. **243**(9): p. 739-748.
420. Klier, M., et al., *Enzymatic activity is not required for phospholipase D mediated TNF- α regulation and myocardial healing*. Frontiers in Physiology, 2018. **9**: p. 1698.
421. Klinke, A., et al., *Myeloperoxidase aggravates pulmonary arterial hypertension by activation of vascular Rho-kinase*. JCI Insight, 2018. **3**(11).
422. Koch, A., et al., *Ex-vivo-Lungenperfusion*. Zeitschrift für Herz-, Thorax-und Gefäßchirurgie, 2018. **32**(4): p. 325-330.
423. Kolb, A.L., et al., *Exogenous Gene Transmission of Isocitrate Dehydrogenase 2 Mimics Ischemic Preconditioning Protection*. J Am Soc Nephrol, 2018. **29**(4): p. 1154-1164.
424. Kosaku, K., et al., *Long-Term Hypoxic Tolerance in Murine Cornea*. High Alt Med Biol, 2018. **19**(1): p. 35-41.
425. Kossatz, E., et al., *Octadecylpropyl Sulfamide Reduces Neurodegeneration and Restores the Memory Deficits Induced by Hypoxia-Ischemia in Mice*. Front Pharmacol, 2018. **9**: p. 376.
426. Kosuru, R., et al., *AMPK Contributes to Cardioprotective Effects of Pterostilbene Against Myocardial Ischemia- Reperfusion Injury in Diabetic Rats by Suppressing Cardiac Oxidative Stress and Apoptosis*. Cell Physiol Biochem, 2018. **46**(4): p. 1381-1397.
427. Kulkarni, S., et al., *A large-scale RNAi screen identifies SGK1 as a key survival kinase for GBM stem cells*. Molecular Cancer Research, 2018. **16**(1): p. 103-114.
428. Kwon, M.Y., et al., *NOD2 deficiency exacerbates hypoxia-induced pulmonary hypertension and enhances pulmonary vascular smooth muscle cell proliferation*. Oncotarget, 2018. **9**(16): p. 12671-12681.
429. Lalowski, M.M., et al., *Characterizing the key metabolic pathways of the neonatal mouse heart using a quantitative combinatorial omics approach*. Frontiers in physiology, 2018. **9**: p. 365.
430. Lambertini, E., et al., *Hypoxia Preconditioning of Human MSCs: a Direct Evidence of HIF-1 α and Collagen Type XV Correlation*. Cell Physiol Biochem, 2018. **51**(5): p. 2237-2249.
431. Lamy, S., É. Muhire, and B. Annabi, *Antiproliferative efficacy of elderberries and elderflowers (Sambucus canadensis) on glioma and brain endothelial cells*

- under normoxic and hypoxic conditions*. Journal of Functional Foods, 2018. **40**: p. 164-179.
432. Landucci, E., et al., *Neuroprotective effects of topiramate and memantine in combination with hypothermia in hypoxic-ischemic brain injury in vitro and in vivo*. Neurosci Lett, 2018. **668**: p. 103-107.
 433. Landucci, E., et al., *Bicuculline Reverts the Neuroprotective Effects of Meloxicam in an Oxygen and Glucose Deprivation (OGD) Model of Organotypic Hippocampal Slice Cultures*. Neuroscience, 2018. **386**: p. 68-78.
 434. Larouche, O., L. Jolicoeur, and P. Calosi, *Real-life Lernaean Hydras: a practical activity about the effects of oxygen concentration on regenerative capabilities of planarians*. Journal of Biological Education, 2018: p. 1-10.
 435. Lee, H.Y., et al., *Combination of carboplatin and intermittent normobaric hyperoxia synergistically suppresses benzo[a]pyrene-induced lung cancer*. Korean J Intern Med, 2018. **33**(3): p. 541-551.
 436. Lee, M.Y.K., et al., *Low but not high frequency of intermittent hypoxia suppresses endothelium-dependent, oxidative stress-mediated contractions in carotid arteries of obese mice*. J Appl Physiol (1985), 2018. **125**(5): p. 1384-1395.
 437. Leiton, C.V., et al., *Astrocyte HIF-2alpha supports learning in a passive avoidance paradigm under hypoxic stress*. Hypoxia (Auckl), 2018. **6**: p. 35-56.
 438. Li, C., et al., *AMPK promotes survival and adipogenesis of ischemia-challenged ADSCs in an autophagy-dependent manner*. Biochim Biophys Acta Mol Cell Biol Lipids, 2018. **1863**(12): p. 1498-1510.
 439. Li, M., et al., *Alda-1 Ameliorates Liver Ischemia-Reperfusion Injury by Activating Aldehyde Dehydrogenase 2 and Enhancing Autophagy in Mice*. J Immunol Res, 2018. **2018**: p. 9807139.
 440. Li, R., et al., *Pdgfra marks a cellular lineage with distinct contributions to myofibroblasts in lung maturation and injury response*. Elife, 2018. **7**: p. e36865.
 441. Li, R., et al., *Manipulation of autophagy: a novel potential therapeutic strategy for retinal neovascularization*. BMC Ophthalmol, 2018. **18**(1): p. 110.
 442. Li, R., et al., *Autophagy activation and the mechanism of retinal microvascular endothelial cells in hypoxia*. Int J Ophthalmol, 2018. **11**(4): p. 567-574.
 443. Lien, C.F., et al., *Intermittent hypoxia-generated ROS contributes to intracellular zinc regulation that limits ischemia/reperfusion injury in adult rat cardiomyocyte*. J Mol Cell Cardiol, 2018. **118**: p. 122-132.
 444. Lim, R., et al., *First-In-Human Administration of Allogeneic Amnion Cells in Premature Infants With Bronchopulmonary Dysplasia: A Safety Study*. Stem Cells Transl Med, 2018. **7**(9): p. 628-635.
 445. Lin, Y., et al., *SIRT1 Deletion Impairs Retinal Endothelial Cell Migration Through Downregulation of VEGF-A/VEGFR-2 and MMP14*. Investigative Ophthalmology & Visual Science, 2018. **59**(13): p. 5431-5440.
 446. Lippe, E.M.O., *Angiogenic responses in the pregnant mouse uterus under uNK cell deletion and hypoxia*. Brazilian Journal of Biological Sciences, 2018. **5**(9): p. 13-24.

447. Liu, F., T.-W. Liu, and J. Kang, *The role of NF- κ B-mediated JNK pathway in cognitive impairment in a rat model of sleep apnea*. Journal of thoracic disease, 2018. **10**(12): p. 6921.
448. Liu, J., et al., *IL-33 Initiates Vascular Remodelling in Hypoxic Pulmonary Hypertension by up-Regulating HIF-1 α and VEGF Expression in Vascular Endothelial Cells*. EBioMedicine, 2018. **33**: p. 196-210.
449. Liu, K.X., et al., *Detection and analysis of apoptosis- and autophagy-related miRNAs of mouse vascular endothelial cells in chronic intermittent hypoxia model*. Life Sci, 2018. **193**: p. 194-199.
450. Liu, Y., et al., *AMPA Receptor-Dependent Glutamatergic Signaling is Present in the Carotid Chemoreceptor*. Neuroscience, 2018. **382**: p. 59-68.
451. Lo Re, O., et al., *Histone variant macroH2A1 rewires carbohydrate and lipid metabolism of hepatocellular carcinoma cells towards cancer stem cells*. Epigenetics, 2018. **13**(8): p. 829-845.
452. Lu, Z., et al., *A role for heat shock factor 1 in hypercapnia-induced inhibition of inflammatory cytokine expression*. FASEB J, 2018. **32**(7): p. 3614-3622.
453. Lucking, E.F., et al., *Chronic intermittent hypoxia disrupts cardiorespiratory homeostasis and gut microbiota composition in adult male guinea-pigs*. EBioMedicine, 2018. **38**: p. 191-205.
454. Luo, Y., et al., *β -catenin nuclear translocation induced by HIF-1 α overexpression leads to the radioresistance of prostate cancer*. International Journal of Oncology, 2018.
455. Luther, K.M., et al., *Exosomal miR-21a-5p mediates cardioprotection by mesenchymal stem cells*. J Mol Cell Cardiol, 2018. **119**: p. 125-137.
456. Ma, L., et al., *Effect of Allicin against Ischemia/Hypoxia-Induced H9c2 Myoblast Apoptosis via eNOS/NO Pathway-Mediated Antioxidant Activity*. Evid Based Complement Alternat Med, 2018. **2018**: p. 3207973.
457. MacLauchlan, S.C., et al., *HIF-1 α represses the expression of the angiogenesis inhibitor thrombospondin-2*. Matrix Biol, 2018. **65**: p. 45-58.
458. McDonald, C.A., et al., *Effects of umbilical cord blood cells, and subtypes, to reduce neuroinflammation following perinatal hypoxic-ischemic brain injury*. J Neuroinflammation, 2018. **15**(1): p. 47.
459. McIntyre, L.A., et al., *Cellular Immunotherapy for Septic Shock. A Phase I Clinical Trial*. Am J Respir Crit Care Med, 2018. **197**(3): p. 337-347.
460. Merfeld-Clauss, S., et al., *Hypoxia-induced activin A diminishes endothelial cell vasculogenic activity*. J Cell Mol Med, 2018. **22**(1): p. 173-184.
461. Mertens, T.C.J., et al., *Switching-Off Adora2b in Vascular Smooth Muscle Cells Halts the Development of Pulmonary Hypertension*. Front Physiol, 2018. **9**: p. 555.
462. Moriyama, H., et al., *Notch Signaling Enhances Stemness by Regulating Metabolic Pathways Through Modifying p53, NF-kappaB, and HIF-1 α* . Stem Cells Dev, 2018. **27**(13): p. 935-947.
463. Moya, A., et al., *Osteogenic potential of adipogenic predifferentiated human bone marrow-derived multipotent stromal cells for bone tissue-engineering*. J Tissue Eng Regen Med, 2018. **12**(3): p. e1511-e1524.

464. Moya, A., et al., *Human Mesenchymal Stem Cell Failure to Adapt to Glucose Shortage and Rapidly use Intracellular Energy Reserves through Glycolysis Explains Poor Cell Survival After Implantation*. STEM CELLS, 2018.
465. Nair, D., V. Ramesh, and D. Gozal, *Cognitive Deficits Are Attenuated in Neuroglobin Overexpressing Mice Exposed to a Model of Obstructive Sleep Apnea*. Front Neurol, 2018. **9**: p. 426.
466. Nair, S., et al., *Human placental exosomes in gestational diabetes mellitus carry a specific set of miRNAs associated with skeletal muscle insulin sensitivity*. Clin Sci (Lond), 2018. **132**(22): p. 2451-2467.
467. Narala, V.R., et al., *Akap1 genetic deletion increases the severity of hyperoxia-induced acute lung injury in mice*. Am J Physiol Lung Cell Mol Physiol, 2018. **314**(5): p. L860-L870.
468. Ng, K.P., et al., *The arginase inhibitor Nomega-hydroxy-nor-arginine (nor-NOHA) induces apoptosis in leukemic cells specifically under hypoxic conditions but CRISPR/Cas9 excludes arginase 2 (ARG2) as the functional target*. PLoS One, 2018. **13**(10): p. e0205254.
469. Nguyen, H.L., et al., *Hypoxic postconditioning enhances functional recovery following endothelin-1 induced middle cerebral artery occlusion in conscious rats*. Exp Neurol, 2018. **306**: p. 177-189.
470. Nguyen, V., et al., *Sonic Hedgehog Agonist Protects Against Complex Neonatal Cerebellar Injury*. Cerebellum, 2018. **17**(2): p. 213-227.
471. Nyp, M.F., et al., *Lung epithelial-specific TRIP-1 overexpression maintains epithelial integrity during hyperoxia exposure*. Physiol Rep, 2018. **6**(5).
472. Nzou, G., et al., *Human Cortex Spheroid with a Functional Blood Brain Barrier for High-Throughput Neurotoxicity Screening and Disease Modeling*. Sci Rep, 2018. **8**(1): p. 7413.
473. Oakley, R.H., et al., *Muscle-specific regulation of right ventricular transcriptional responses to chronic hypoxia-induced hypertrophy by the muscle ring finger-1 (MuRF1) ubiquitin ligase in mice*. BMC Med Genet, 2018. **19**(1): p. 175.
474. O'Kane, D., et al., *Zinc preconditioning protects against renal ischaemia reperfusion injury in a preclinical sheep large animal model*. Biometals, 2018. **31**(5): p. 821-834.
475. Panigrahi, G.K., et al., *Hypoxia-induced exosome secretion promotes survival of African-American and Caucasian prostate cancer cells*. Sci Rep, 2018. **8**(1): p. 3853.
476. Peng, Y. and K. Hu, *Effect of garlic on rats with chronic intermittent hypoxia combined with diabetes mellitus*. Mol Med Rep, 2018. **17**(4): p. 6174-6184.
477. Perim, R.R., et al., *Previous exposure to chronic intermittent hypoxia blunts the development of one-kidney, one-clip hypertension in rats*. Exp Physiol, 2018. **103**(4): p. 473-482.
478. Phan, T.G., et al., *Phase 1 Trial of Amnion Cell Therapy for Ischemic Stroke*. Front Neurol, 2018. **9**: p. 198.
479. Piuze, N.S., et al., *Variability in the Preparation, Reporting, and Use of Bone Marrow Aspirate Concentrate in Musculoskeletal Disorders: A Systematic Review of the Clinical Orthopaedic Literature*. J Bone Joint Surg Am, 2018. **100**(6): p. 517-525.

480. Piuzzi, N.S., et al., *Intra-articular hyaluronan injections for the treatment of osteoarthritis: perspective for the mechanism of action*. Ther Adv Musculoskelet Dis, 2018. **10**(2): p. 55-57.
481. Piuzzi, N.S., et al., *The Stem-Cell Market for the Treatment of Knee Osteoarthritis: A Patient Perspective*. J Knee Surg, 2018. **31**(6): p. 551-556.
482. Preissner, M., et al., *Application of a novel in vivo imaging approach to measure pulmonary vascular responses in mice*. Physiol Rep, 2018. **6**(19): p. e13875.
483. Purandare, N., et al., *The cellular stress proteins CHCHD10 and MNRR1 (CHCHD2): Partners in mitochondrial and nuclear function and dysfunction*. J Biol Chem, 2018. **293**(17): p. 6517-6529.
484. Qadan, M.A., et al., *Variation in primary and culture-expanded cells derived from connective tissue progenitors in human bone marrow space, bone trabecular surface and adipose tissue*. Cytotherapy, 2018. **20**(3): p. 343-360.
485. Qin, J.J., et al., *Caspase recruitment domain 6 protects against hepatic ischemia/reperfusion injury by suppressing ASK1*. J Hepatol, 2018. **69**(5): p. 1110-1122.
486. Radom-Aizik, S., et al., *A Translational Model of Incomplete Catch-Up Growth: Early-Life Hypoxia and the Effect of Physical Activity*. Clin Transl Sci, 2018. **11**(4): p. 412-419.
487. Rand, D.M., et al., *Mitonuclear epistasis, genotype-by-environment interactions, and personalized genomics of complex traits in Drosophila*. IUBMB Life, 2018. **70**(12): p. 1275-1288.
488. Rashid, J., et al., *Repurposing rosiglitazone, a PPAR-gamma agonist and oral antidiabetic, as an inhaled formulation, for the treatment of PAH*. J Control Release, 2018. **280**: p. 113-123.
489. Rashid, J., et al., *Fasudil and DETA NONOate, Loaded in a Peptide-Modified Liposomal Carrier, Slow PAH Progression upon Pulmonary Delivery*. Mol Pharm, 2018. **15**(5): p. 1755-1765.
490. Reid, E., et al., *Preclinical Evaluation and Optimization of a Cell Therapy Using Human Cord Blood-Derived Endothelial Colony-Forming Cells for Ischemic Retinopathies*. Stem Cells Transl Med, 2018. **7**(1): p. 59-67.
491. Revhaug, C., et al., *Pulmonary vascular disease is evident in gene regulation of experimental bronchopulmonary dysplasia*. The Journal of Maternal-Fetal & Neonatal Medicine, 2018: p. 1-9.
492. Richards, D.J., *Development of Biomimetic Models of Human Cardiac Tissue*. dissertation, 2018.
493. Rocha, R., et al., *The Adenosine A(3) Receptor Regulates Differentiation of Glioblastoma Stem-Like Cells to Endothelial Cells under Hypoxia*. Int J Mol Sci, 2018. **19**(4).
494. Ruyle, B.C., et al., *Hypoxia activates a neuropeptidergic pathway from the paraventricular nucleus of the hypothalamus to the nucleus tractus solitarii*. Am J Physiol Regul Integr Comp Physiol, 2018. **315**(6): p. R1167-R1182.
495. Rybka, V., Y.J. Suzuki, and N.V. Shults, *Effects of Bcl-2/Bcl-xL Inhibitors on Pulmonary Artery Smooth Muscle Cells*. Antioxidants (Basel), 2018. **7**(11).
496. Sagi, V., et al., *Mouse Models of Pain in Sickle Cell Disease*. Curr Protoc Neurosci, 2018. **85**(1): p. e54.

497. Sallon, C., et al., *Essential Intracrine Androgenic Action in Lung Development for Both Sexes*. J Steroid Biochem Mol Biol, 2018. **183**: p. 184-191.
498. Scheuer, T., et al., *Neonatal Hyperoxia Perturbs Neuronal Development in the Cerebellum*. Mol Neurobiol, 2018. **55**(5): p. 3901-3915.
499. Serdar, M., et al., *Protection of oligodendrocytes through neuronal overexpression of the small gtpase ras in hyperoxia-induced neonatal brain injury*. Frontiers in neurology, 2018. **9**: p. 175.
500. Shafa, M., et al., *Human induced pluripotent stem cell-derived lung progenitor and alveolar epithelial cells attenuate hyperoxia-induced lung injury*. Cytotherapy, 2018. **20**(1): p. 108-125.
501. Sharma, P., et al., *Intermittent hypoxia regulates vasoactive molecules and alters insulin-signaling in vascular endothelial cells*. Sci Rep, 2018. **8**(1): p. 14110.
502. Sheikh, A.Q., et al., *Cell Autonomous and Non-cell Autonomous Regulation of SMC Progenitors in Pulmonary Hypertension*. Cell Rep, 2018. **23**(4): p. 1152-1165.
503. Shigemura, M., et al., *Hypercapnia increases airway smooth muscle contractility via caspase-7-mediated miR-133a-RhoA signaling*. Science translational medicine, 2018. **10**(457).
504. Shults, N.V., et al., *Ligand-mediated dephosphorylation signaling for MAP kinase*. Cell Signal, 2018. **52**: p. 147-154.
505. Siegers, G.M., et al., *Functional Plasticity of Gamma Delta T Cells and Breast Tumor Targets in Hypoxia*. Front Immunol, 2018. **9**: p. 1367.
506. Simmons, A.B., et al., *Gene therapy knockdown of VEGFR2 in retinal endothelial cells to treat retinopathy*. Angiogenesis, 2018. **21**(4): p. 751-764.
507. Simmons, M.A., et al., *Automatic analysis of the retinal avascular area in the rat oxygen-induced retinopathy model*. Mol Vis, 2018. **24**: p. 767-777.
508. Sivasubramaniyan, K., et al., *Bone Marrow-Harvesting Technique Influences Functional Heterogeneity of Mesenchymal Stem/Stromal Cells and Cartilage Regeneration*. The American journal of sports medicine, 2018. **46**(14): p. 3521-3531.
509. Snyder, B., et al., *Rat Strain and Housing Conditions Alter Oxidative Stress and Hormone Responses to Chronic Intermittent Hypoxia*. Front Physiol, 2018. **9**: p. 1554.
510. Snyder, B., et al., *Androgens modulate chronic intermittent hypoxia effects on brain and behavior*. Horm Behav, 2018. **106**: p. 62-73.
511. Soares, M.A., et al., *Ex vivo allotransplantation engineering: Delivery of mesenchymal stem cells prolongs rejection-free allograft survival*. Am J Transplant, 2018. **18**(7): p. 1657-1667.
512. Sun, P., et al., *Monocyte Chemoattractant Protein-Induced Protein 1 Targets Hypoxia-Inducible Factor 1alpha to Protect Against Hepatic Ischemia/Reperfusion Injury*. Hepatology, 2018. **68**(6): p. 2359-2375.
513. Szojka, A.R.A., et al., *Hypoxia and TGF- β 3 synergistically mediate inner meniscus-like matrix formation by fibrochondrocytes*. Tissue Engineering, 2018(ja).

514. Tamosiuniene, R., et al., *Dominant Role for Regulatory T Cells in Protecting Females Against Pulmonary Hypertension*. *Circ Res*, 2018. **122**(12): p. 1689-1702.
515. Than, N.G., et al., *Integrated Systems Biology Approach Identifies Novel Maternal and Placental Pathways of Preeclampsia*. *Front Immunol*, 2018. **9**: p. 1661.
516. Tripathi, A., et al., *Intermittent Hypoxia and Hypercapnia, a Hallmark of Obstructive Sleep Apnea, Alters the Gut Microbiome and Metabolome*. *mSystems*, 2018. **3**(3): p. e00020-18.
517. Tubin, S., M.M. Ahmed, and S. Gupta, *Radiation and hypoxia-induced non-targeted effects in normoxic and hypoxic conditions in human lung cancer cells*. *Int J Radiat Biol*, 2018. **94**(3): p. 199-211.
518. Vahatupa, M., et al., *SWATH-MS Proteomic Analysis of Oxygen-Induced Retinopathy Reveals Novel Potential Therapeutic Targets*. *Invest Ophthalmol Vis Sci*, 2018. **59**(8): p. 3294-3306.
519. Vijayan, M., et al., *Identification of novel circulatory microRNA signatures linked to patients with ischemic stroke*. *Hum Mol Genet*, 2018. **27**(13): p. 2318-2329.
520. Vozdek, R., Y. Long, and D.K. Ma, *The receptor tyrosine kinase HIR-1 coordinates HIF-independent responses to hypoxia and extracellular matrix injury*. *Sci Signal*, 2018. **11**(550).
521. Vyas-Read, S., et al., *Hyperoxia induces paracellular leak and alters claudin expression by neonatal alveolar epithelial cells*. *Pediatr Pulmonol*, 2018. **53**(1): p. 17-27.
522. Wada, Y., et al., *Impact of oxygen status on 10B-BPA uptake into human glioblastoma cells, referring to significance in boron neutron capture therapy*. *J Radiat Res*, 2018. **59**(2): p. 122-128.
523. Wade, B.E., et al., *Hypoxia-induced alterations in the lung ubiquitin proteasome system during pulmonary hypertension pathogenesis*. *Pulm Circ*, 2018. **8**(3): p. 2045894018788267.
524. Wallace, K., et al., *Novel treatment avenues for uterine leiomyoma: a new implication for endothelin?* *Clin Sci (Lond)*, 2018. **132**(20): p. 2261-2267.
525. Wang, F., et al., *Regeneration of the oesophageal muscle layer from oesophagus acellular matrix scaffold using adipose-derived stem cells*. *Biochemical and biophysical research communications*, 2018. **503**(1): p. 271-277.
526. Wang, F., et al., *Enhancing Oligodendrocyte Myelination Rescues Synaptic Loss and Improves Functional Recovery after Chronic Hypoxia*. *Neuron*, 2018. **99**(4): p. 689-701 e5.
527. Wang, F., et al., *Hypoxia Enhances Differentiation of Adipose Tissue-Derived Stem Cells toward the Smooth Muscle Phenotype*. *Int J Mol Sci*, 2018. **19**(2).
528. Wang, J., et al., *MicroRNA-143 modulates the expression of Natriuretic Peptide Receptor 3 in cardiac cells*. *Sci Rep*, 2018. **8**(1): p. 7055.
529. Wang, L., et al., *A Core-Shell Nanoplatform for Synergistic Enhanced Sonodynamic Therapy of Hypoxic Tumor via Cascaded Strategy*. *Adv Healthc Mater*, 2018. **7**(22): p. e1800819.

530. Wang, Y., et al., *Low-Frequency Intermittent Hypoxia Promotes Subcutaneous Adipogenic Differentiation*. *Oxid Med Cell Longev*, 2018. **2018**: p. 4501757.
531. Wei, Z.Z., et al., *Neuroprotective and regenerative roles of intranasal Wnt-3a administration after focal ischemic stroke in mice*. *J Cereb Blood Flow Metab*, 2018. **38**(3): p. 404-421.
532. Wheatley, B.M., et al., *Palovarotene inhibits connective tissue progenitor cell proliferation in a rat model of combat-related heterotopic ossification*. *J Orthop Res*, 2018. **36**(4): p. 1135-1144.
533. Willis, G.R., et al., *Mesenchymal Stromal Cell Exosomes Ameliorate Experimental Bronchopulmonary Dysplasia and Restore Lung Function through Macrophage Immunomodulation*. *Am J Respir Crit Care Med*, 2018. **197**(1): p. 104-116.
534. Wilson, E.N., et al., *Chronic intermittent hypoxia induces hormonal and male sexual behavioral changes: Hypoxia as an advancer of aging*. *Physiol Behav*, 2018. **189**: p. 64-73.
535. Wong, R., et al., *Blockade of the swelling-induced chloride current attenuates the mouse neonatal hypoxic-ischemic brain injury in vivo*. *Acta Pharmacol Sin*, 2018. **39**(5): p. 858-865.
536. Wu, X., et al., *NLRP3 in inflammasome mediates chronic intermittent hypoxia-induced renal injury implication of the microRNA-155/FOXO3a signaling pathway*. *J Cell Physiol*, 2018. **233**(12): p. 9404-9415.
537. Xiao, C., et al., *Downregulation of hypoxia-inducible factor-1 α inhibits growth, invasion, and angiogenesis of human salivary adenoid cystic carcinoma cells under hypoxia*. *Oncol Rep*, 2018. **40**(3): p. 1675-1683.
538. Xing, J., et al., *Hypoxia induces senescence of bone marrow mesenchymal stem cells via altered gut microbiota*. *Nat Commun*, 2018. **9**(1): p. 2020.
539. Xu, D., et al., *Rictor Deficiency Aggravates Hepatic Ischemia/Reperfusion Injury in Mice by Suppressing Autophagy and Regulating MAPK Signaling*. *Cell Physiol Biochem*, 2018. **45**(6): p. 2199-2212.
540. Xu, J., et al., *Dipeptidyl peptidase IV (DPP-4) inhibition alleviates pulmonary arterial remodeling in experimental pulmonary hypertension*. *Lab Invest*, 2018. **98**(10): p. 1333-1346.
541. Yadav, V.R., et al., *PLC γ 1-PKC ϵ -IP3R1 signaling plays an important role in hypoxia-induced calcium response in pulmonary artery smooth muscle cells*. *Am J Physiol Lung Cell Mol Physiol*, 2018. **314**(5): p. L724-L735.
542. Yang, Z., et al., *Aucubin Protects against Myocardial Infarction-Induced Cardiac Remodeling via nNOS/NO-Regulated Oxidative Stress*. *Oxid Med Cell Longev*, 2018. **2018**: p. 4327901.
543. Yeligar, S.M., et al., *PPAR γ Regulates Mitochondrial Structure and Function and Human Pulmonary Artery Smooth Muscle Cell Proliferation*. *Am J Respir Cell Mol Biol*, 2018. **58**(5): p. 648-657.
544. Young, S.A., et al., *Mechanically resilient injectable scaffolds for intramuscular stem cell delivery and cytokine release*. *Biomaterials*, 2018. **159**: p. 146-160.
545. Yu, H., et al., *1,25(OH) $_2$ D $_3$ attenuates pulmonary arterial hypertension via microRNA-204 mediated Tgf β 2/Smad signaling*. *Exp Cell Res*, 2018. **362**(2): p. 311-323.

- 546. Zaitoun, I.S., et al., *Attenuation of Retinal Vascular Development in Neonatal Mice Subjected to Hypoxic-Ischemic Encephalopathy*. Sci Rep, 2018. **8**(1): p. 9166.
- 547. Zeng, F., et al., *Regulating glioma stem cells by hypoxia through the Notch1 and Oct3/4 signaling pathway*. Oncology Letters, 2018.
- 548. Zhang, H., et al., *Neurofibromin Deficiency Induces Endothelial Cell Proliferation and Retinal Neovascularization*. Invest Ophthalmol Vis Sci, 2018. **59**(6): p. 2520-2528.
- 549. Zhang, J., et al., *Hypoxic culture enhances the expansion of rat bone marrow-derived mesenchymal stem cells via the regulatory pathways of cell division and apoptosis*. In Vitro Cell Dev Biol Anim, 2018. **54**(9): p. 666-676.
- 550. Zhang, J., et al., *Secretory kinase Fam20C tunes endoplasmic reticulum redox state via phosphorylation of Ero1alpha*. EMBO J, 2018. **37**(14).
- 551. Zhang, J.Y., et al., *Intranasally Delivered Wnt3a Improves Functional Recovery after Traumatic Brain Injury by Modulating Autophagic, Apoptotic, and Regenerative Pathways in the Mouse Brain*. J Neurotrauma, 2018. **35**(5): p. 802-813.
- 552. Zhang, W., et al., *Hydrogen alleviates cellular senescence via regulation of ROS/p53/p21 pathway in bone marrow-derived mesenchymal stem cells in vivo*. Biomed Pharmacother, 2018. **106**: p. 1126-1134.
- 553. Zhang, Y., B. Peng, and Y. Han, *MiR-182 alleviates the development of cyanotic congenital heart disease by suppressing HES1*. Eur J Pharmacol, 2018. **836**: p. 18-24.
- 554. Zhao, Y., et al., *Changes to social feeding behaviors are not sufficient for fitness gains of the Caenorhabditis elegans N2 reference strain*. Elife, 2018. **7**: p. e38675.
- 555. Zheng, X., et al., *Co-immunoprecipitation Assay Using Endogenous Nuclear Proteins from Cells Cultured Under Hypoxic Conditions*. JoVE (Journal of Visualized Experiments), 2018(138): p. e57836.
- 556. Zhong, Y., et al., *Maternal omega-3 PUFA supplementation prevents hyperoxia-induced pulmonary hypertension in the offspring*. Am J Physiol Lung Cell Mol Physiol, 2018. **315**(1): p. L116-L132.
- 557. Zhou, L., et al., *Imatinib Ameliorated Retinal Neovascularization by Suppressing PDGFR-alpha and PDGFR-beta*. Cell Physiol Biochem, 2018. **48**(1): p. 263-273.
- 558. Zhu, G., et al., *miR-371b-5p inhibits endothelial cell apoptosis in monocrotaline-induced pulmonary arterial hypertension via PTEN/PI3K/Akt signaling pathways*. Molecular Medicine Reports, 2018. **18**(6): p. 5489-5501.
- 559. Zhu, M., et al., *Gastrodin Protects Cardiomyocytes from Anoxia/Reoxygenation Injury by 14-3-3 η* . Oxidative medicine and cellular longevity, 2018. **2018**.
- 560. Zou, Y., et al., *The effect of chronic-intermittent-hypoxia on 5-HT1A receptors and GIRK-2 in dorsal raphe nucleus of rats*. European Respiratory Journal, 2018. **52**(suppl 62): p. PA2540.
- 561. Zou, Y., et al., *Chronic Intermittent Hypoxia Induces the Long-Term Facilitation of Genioglossus Corticomotor Activity*. Can Respir J, 2018. **2018**: p. 5941429.

562. Zurlo, G., et al., *Sirtuin 1 regulates pulmonary artery smooth muscle cell proliferation: role in pulmonary arterial hypertension*. J Hypertens, 2018. **36**(5): p. 1164-1177.
563. 程加秋 and 张庭然, *低氧环境下中等强度运动对老年 T2DM 大鼠骨密度, 胰岛素敏感性影响研究*. Chinese Journal of Osteoporosis/Zhongguo Guzhi Shusong Zazhi, 2018. **24**(5).
564. Abdul, M., et al., *Exposure to 15% oxygen in vivo up-regulates cardioprotective SUR2A without affecting ERK1/2 and AKT: a crucial role for AMPK*. Journal of Cellular and Molecular Medicine, 2017.
565. Adesina, S.E., et al., *Hypoxia inhibits expression and function of mitochondrial thioredoxin 2 to promote pulmonary hypertension*. Am J Physiol Lung Cell Mol Physiol, 2017. **312**(5): p. L599-L608.
566. Akbarpour, M., et al., *Altered CD8+ T-Cell Lymphocyte Function and TC1 Cell Stemness Contribute to Enhanced Malignant Tumor Properties in Murine Models of Sleep Apnea*. Sleep, 2017. **40**(2).
567. Amsellem, V., et al., *Roles for the CX3CL1/CX3CR1 and CCL2/CCR2 Chemokine Systems in Hypoxic Pulmonary Hypertension*. Am J Respir Cell Mol Biol, 2017. **56**(5): p. 597-608.
568. An, S.M., et al., *Interleukin-6 identified as an important factor in hypoxia-and aldehyde dehydrogenase-based gefitinib adaptive resistance in non-small cell lung cancer cells*. Oncology Letters, 2017. **14**(3): p. 3445-3454.
569. Asosingh, K., et al., *Bone marrow transplantation prevents right ventricle disease in the caveolin-1-deficient mouse model of pulmonary hypertension*. Blood Adv, 2017. **1**(9): p. 526-534.
570. Barbakadze, T., et al., *Subcellular Distribution of S-Nitrosylated H-Ras in Differentiated and Undifferentiated PC12 Cells during Hypoxia*. Cell J, 2017. **19**(3): p. 443-451.
571. Barnett, W.H., et al., *Chemoreception and neuroplasticity in respiratory circuits*. Exp Neurol, 2017. **287**(Pt 2): p. 153-164.
572. Bavassano, C., et al., *Bicistronic CACNA1A Gene Expression in Neurons Derived from Spinocerebellar Ataxia Type 6 Patient-Induced Pluripotent Stem Cells*. Stem Cells Dev, 2017. **26**(22): p. 1612-1625.
573. Becker, S., et al., *Effect of subretinal injection on retinal structure and function in a rat oxygen-induced retinopathy model*. Mol Vis, 2017. **23**: p. 832-843.
574. Becker, S., et al., *Protective effect of maternal uteroplacental insufficiency on oxygen-induced retinopathy in offspring: removing bias of premature birth*. Sci Rep, 2017. **7**: p. 42301.
575. Beharry, K.D., et al., *Co-Enzyme Q10 and n-3 Polyunsaturated Fatty Acid Supplementation Reverse Intermittent Hypoxia-Induced Growth Restriction and Improved Antioxidant Profiles in Neonatal Rats*. Antioxidants (Basel), 2017. **6**(4).
576. Betous, R., et al., *Human Adipose-Derived Stem Cells Expanded Under Ambient Oxygen Concentration Accumulate Oxidative DNA Lesions and Experience Procarcinogenic DNA Replication Stress*. Stem Cells Transl Med, 2017. **6**(1): p. 68-76.

577. Boopathy, G.T.K., et al., *Cavin-2 regulates the activity and stability of endothelial nitric-oxide synthase (eNOS) in angiogenesis*. J Biol Chem, 2017. **292**(43): p. 17760-17776.
578. Bordt, E.A., et al., *The Putative Drp1 Inhibitor mdivi-1 Is a Reversible Mitochondrial Complex I Inhibitor that Modulates Reactive Oxygen Species*. Developmental Cell, 2017. **40**(6): p. 583-594. e6.
579. Boregowda, S.V., et al., *IP6K1 Reduces Mesenchymal Stem/Stromal Cell Fitness and Potentiates High Fat Diet-Induced Skeletal Involution*. Stem Cells, 2017. **35**(8): p. 1973-1983.
580. Brodowski, L., et al., *Impaired functional capacity of fetal endothelial cells in preeclampsia*. PLoS One, 2017. **12**(5): p. e0178340.
581. Burnight, E.R., et al., *Using CRISPR-Cas9 to Generate Gene-Corrected Autologous iPSCs for the Treatment of Inherited Retinal Degeneration*. Mol Ther, 2017. **25**(9): p. 1999-2013.
582. Cabral-Miranda, F., et al., *rAAV8-733-Mediated Gene Transfer of CHIP/Stub-1 Prevents Hippocampal Neuronal Death in Experimental Brain Ischemia*. Mol Ther, 2017. **25**(2): p. 392-400.
583. Caino, M.C., et al., *Syntaphilin controls a mitochondrial rheostat for proliferation-motility decisions in cancer*. J Clin Invest, 2017. **127**(10): p. 3755-3769.
584. Carmona-Fontaine, C., et al., *Metabolic origins of spatial organization in the tumor microenvironment*. Proc Natl Acad Sci U S A, 2017. **114**(11): p. 2934-2939.
585. Caroti, C.M., et al., *A Novel Technique for Accelerated Culture of Murine Mesenchymal Stem Cells that Allows for Sustained Multipotency*. Sci Rep, 2017. **7**(1): p. 13334.
586. Chao, C.M., et al., *Fgf10 deficiency is causative for lethality in a mouse model of bronchopulmonary dysplasia*. The Journal of pathology, 2017. **241**(1): p. 91-103.
587. Chau, M., et al., *Transplantation of iPS cell-derived neural progenitors overexpressing SDF-1alpha increases regeneration and functional recovery after ischemic stroke*. Oncotarget, 2017. **8**(57): p. 97537-97553.
588. Chen, C.C., et al., *Hypoxia and hyperoxia differentially control proliferation of rat neural crest stem cells via distinct regulatory pathways of the HIF1 α -CXCR4 and TP53-TPM1 proteins*. Developmental Dynamics, 2017. **246**(3): p. 162-185.
589. Chen, C.M., et al., *Surfactant effects on the viability and function of human mesenchymal stem cells: in vitro and in vivo assessment*. Stem Cell Res Ther, 2017. **8**(1): p. 180.
590. Chen, C.M., et al., *Human mesenchymal stem cells ameliorate experimental pulmonary hypertension induced by maternal inflammation and neonatal hyperoxia in rats*. Oncotarget, 2017. **8**(47): p. 82366-82375.
591. Chen, C.M., et al., *Genome-Wide Analysis of DNA Methylation in Hyperoxia-Exposed Newborn Rat Lung*. Lung, 2017. **195**(5): p. 661-669.
592. Chen, J.Y., C.H. Lin, and B.C. Chen, *Hypoxia-induced ADAM 17 expression is mediated by RSK1-dependent C/EBPbeta activation in human lung fibroblasts*. Mol Immunol, 2017. **88**: p. 155-163.

593. Chen, L., et al., *Modulation of miR29a improves impaired post-ischemic angiogenesis in hyperglycemia*. Exp Biol Med (Maywood), 2017. **242**(14): p. 1432-1443.
594. Chen, O., et al., *High-concentration hydrogen protects mouse heart against ischemia/reperfusion injury through activation of the PI3K/Akt1 pathway*. Sci Rep, 2017. **7**(1): p. 14871.
595. Chen, Y.C., et al., *Genome-wide gene expression array identifies novel genes related to disease severity and excessive daytime sleepiness in patients with obstructive sleep apnea*. PLoS One, 2017. **12**(5): p. e0176575.
596. Chhasatia, R., et al., *Non-invasive, in vitro analysis of islet insulin production enabled by an optical porous silicon biosensor*. Biosens Bioelectron, 2017. **91**: p. 515-522.
597. Chirco, K.R., et al., *Structural and molecular changes in the aging choroid: implications for age-related macular degeneration*. Eye (Lond), 2017. **31**(1): p. 10-25.
598. Chirco, K.R., et al., *Preparation and evaluation of human choroid extracellular matrix scaffolds for the study of cell replacement strategies*. Acta Biomater, 2017. **57**: p. 293-303.
599. Clayton, B.L., et al., *The integrated stress response in hypoxia-induced diffuse white matter injury*. J Neurosci, 2017.
600. Coronel, M.M., R. Geusz, and C.L. Stabler, *Mitigating hypoxic stress on pancreatic islets via in situ oxygen generating biomaterial*. Biomaterials, 2017. **129**: p. 139-151.
601. Cortese, R., et al., *Aorta macrophage inflammatory and epigenetic changes in a murine model of obstructive sleep apnea: Potential role of CD36*. Sci Rep, 2017. **7**: p. 43648.
602. Cox, A.M., et al., *Cumulative effects of neonatal hyperoxia on murine alveolar structure and function*. Pediatr Pulmonol, 2017. **52**(5): p. 616-624.
603. Darnall, R.A., et al., *Early postnatal exposure to intermittent hypoxia in rodents is proinflammatory, impairs white matter integrity, and alters brain metabolism*. Pediatric research, 2017. **82**(1): p. 164-172.
604. Davidson, C., et al., *Inhibition or deletion of 11 β -HSD1 does not increase angiogenesis in ischemic retinopathy*. Diabetes & Metabolism, 2017.
605. de Toledo, S.M., et al., *Genomic instability induced in distant progeny of bystander cells depends on the connexins expressed in the irradiated cells*. Int J Radiat Biol, 2017. **93**(10): p. 1182-1194.
606. Deliyanti, D., et al., *Foxp3(+) Tregs are recruited to the retina to repair pathological angiogenesis*. Nat Commun, 2017. **8**(1): p. 748.
607. Dellett, M., et al., *MicroRNA-containing extracellular vesicles released from endothelial colony-forming cells modulate angiogenesis during ischaemic retinopathy*. J Cell Mol Med, 2017. **21**(12): p. 3405-3419.
608. DeMars, K.M., et al., *Spatiotemporal Changes in P-glycoprotein Levels in Brain and Peripheral Tissues Following Ischemic Stroke in Rats*. J Exp Neurosci, 2017. **11**: p. 1179069517701741.

609. Duscher, D., et al., *Comparison of the Hydroxylase Inhibitor Dimethyloxalylglycine and the Iron Chelator Deferoxamine in Diabetic and Aged Wound Healing*. *Plast Reconstr Surg*, 2017. **139**(3): p. 695e-706e.
610. Eberly, A.R., et al., *Biofilm formation by uropathogenic Escherichia coli is favored under oxygen conditions that mimic the bladder environment*. *International journal of molecular sciences*, 2017. **18**(10): p. 2077.
611. Edgar, K.S., et al., *BH4-Mediated Enhancement of Endothelial Nitric Oxide Synthase Activity Reduces Hyperoxia-Induced Endothelial Damage and Preserves Vascular Integrity in the Neonate*. *Invest Ophthalmol Vis Sci*, 2017. **58**(1): p. 230-241.
612. Endesfelder, S., et al., *Neuroprotective effects of dexmedetomidine against hyperoxia-induced injury in the developing rat brain*. *PLoS One*, 2017. **12**(2): p. e0171498.
613. Endesfelder, S., et al., *Neuroprotection by Caffeine in Hyperoxia-Induced Neonatal Brain Injury*. *Int J Mol Sci*, 2017. **18**(1): p. 187.
614. Engels, J., et al., *Sildenafil Enhances Quantity of Immature Neurons and Promotes Functional Recovery in the Developing Ischemic Mouse Brain*. *Dev Neurosci*, 2017. **39**(1-4): p. 287-297.
615. Fang, M., et al., *Hypoxia-inducible microRNA-218 inhibits trophoblast invasion by targeting LASP1: Implications for preeclampsia development*. *Int J Biochem Cell Biol*, 2017. **87**: p. 95-103.
616. Fernandez-Robredo, P., et al., *Neuropilin 1 Involvement in Choroidal and Retinal Neovascularisation*. *PLoS One*, 2017. **12**(1): p. e0169865.
617. Forget, A., et al., *IGF-2 coated porous collagen microwells for the culture of pancreatic islets*. *Journal of Materials Chemistry B*, 2017. **5**(2): p. 220-225.
618. Fouda, A.Y., et al., *Role of interleukin-10 in the neuroprotective effect of the Angiotensin Type 2 Receptor agonist, compound 21, after ischemia/reperfusion injury*. *Eur J Pharmacol*, 2017. **799**: p. 128-134.
619. Fu, L., et al., *Tyrosine phosphorylation of Kv1. 5 is upregulated in intrauterine growth retardation rats with exaggerated pulmonary hypertension*. *Brazilian Journal of Medical and Biological Research*, 2017. **50**(11).
620. Fu, Z., et al., *Lutein facilitates physiological revascularization in a mouse model of retinopathy of prematurity*. *Clin Exp Ophthalmol*, 2017. **45**(5): p. 529-538.
621. Galeano-Garces, C., et al., *Molecular Validation of Chondrogenic Differentiation and Hypoxia Responsiveness of Platelet-Lysate Expanded Adipose Tissue-Derived Human Mesenchymal Stromal Cells*. *Cartilage*, 2017. **8**(3): p. 283-299.
622. Gao, L., et al., *Circulating long noncoding RNA HOTAIR is an essential mediator of acute myocardial infarction*. *Cellular Physiology and Biochemistry*, 2017. **44**(4): p. 1497-1508.
623. Garg, J., et al., *Catecholamines facilitate VEGF-dependent angiogenesis via beta2-adrenoceptor-induced Epac1 and PKA activation*. *Oncotarget*, 2017. **8**(27): p. 44732-44748.
624. Gerri, C., et al., *Hif-1alpha regulates macrophage-endothelial interactions during blood vessel development in zebrafish*. *Nat Commun*, 2017. **8**: p. 15492.
625. Geyer, M.C., et al., *First Report of Successful Total Pancreatectomy and Islet Autotransplant in Australia*. *Pancreas*, 2017. **46**(3): p. e18-e20.

626. Gileles-Hillel, A., et al., *Prolonged Exposures to Intermittent Hypoxia Promote Visceral White Adipose Tissue Inflammation in a Murine Model of Severe Sleep Apnea: Effect of Normoxic Recovery*. Sleep, 2017. **40**(3): p. zsw074.
627. Gong, X., et al., *Effects of the Macular Carotenoid Lutein in Human Retinal Pigment Epithelial Cells*. Antioxidants (Basel), 2017. **6**(4): p. 100.
628. Gopal, U. and S.V. Pizzo, *Cell surface GRP78 promotes tumor cell histone acetylation through metabolic reprogramming: a mechanism which modulates the Warburg effect*. Oncotarget, 2017. **8**(64): p. 107947.
629. Gorgens, S.W., et al., *Hypoxia in Combination With Muscle Contraction Improves Insulin Action and Glucose Metabolism in Human Skeletal Muscle via the HIF-1 α Pathway*. Diabetes, 2017. **66**(11): p. 2800-2807.
630. Goschl, S., et al., *Comparative studies of oxaliplatin-based platinum(IV) complexes in different in vitro and in vivo tumor models*. Metallomics, 2017. **9**(3): p. 309-322.
631. Gozal, D., et al., *Temporal trajectories of novel object recognition performance in mice exposed to intermittent hypoxia*. Eur Respir J, 2017. **50**(6).
632. Gozal, E., et al., *PKA activity exacerbates hypoxia-induced ROS formation and hypoxic injury in PC-12 cells*. Toxicol Lett, 2017. **279**: p. 107-114.
633. Green, D.E., et al., *Peroxisome proliferator-activated receptor- γ enhances human pulmonary artery smooth muscle cell apoptosis through microRNA-21 and programmed cell death 4*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2017. **313**(2): p. L371-L383.
634. Grzegorzewska, A.P., et al., *Dimethyl Fumarate ameliorates pulmonary arterial hypertension and lung fibrosis by targeting multiple pathways*. Sci Rep, 2017. **7**: p. 41605.
635. Guo, J., et al., *PRAS40 Connects Microenvironmental Stress Signaling to Exosome-Mediated Secretion*. Mol Cell Biol, 2017. **37**(19).
636. Guo, S., et al., *Involvement of Ca²⁺-activated K⁺ channel 3.1 in hypoxia-induced pulmonary arterial hypertension and therapeutic effects of TRAM-34 in rats*. Bioscience Reports, 2017: p. BSR20170763.
637. Gupta, N., et al., *Cocktail of superoxide dismutase and fasudil encapsulated in targeted liposomes slows PAH progression at a reduced dosing frequency*. Molecular pharmaceutics, 2017. **14**(3): p. 830-841.
638. Gutsaeva, D.R., et al., *STAT3-mediated activation of miR-21 is involved in down-regulation of TIMP3 and neovascularization in the ischemic retina*. Oncotarget, 2017. **8**(61): p. 103568-103580.
639. Gwoździńska, P., et al., *Hypercapnia Impairs ENaC Cell Surface Stability by Promoting Phosphorylation, Polyubiquitination and Endocytosis of β -ENaC in a Human Alveolar Epithelial Cell Line*. Frontiers in Immunology, 2017. **8**.
640. Ha, W.H., et al., *Recombinant human bone morphogenic protein-2 Induces the Differentiation and Mineralization of Osteoblastic Cells Under Hypoxic Conditions via Activation of Protein Kinase D and p38 Mitogen-Activated Protein Kinase Signaling Pathways*. Tissue Eng Regen Med, 2017. **14**(4): p. 433-441.
641. Heywood, H.K. and D.A. Lee, *Bioenergetic reprogramming of articular chondrocytes by exposure to exogenous and endogenous reactive oxygen*

- species and its role in the anabolic response to low oxygen. J Tissue Eng Regen Med*, 2017. **11**(8): p. 2286-2294.
642. Hirahara, S., et al., *Suppression of Retinal Neovascularization by Anti-CCR3 Treatment in an Oxygen-Induced Retinopathy Model in Mice. Ophthalmic Res*, 2017. **58**(1): p. 56-66.
 643. Holmes-Walker, D.J., et al., *Islet Transplantation Provides Superior Glycemic Control With Less Hypoglycemia Compared With Continuous Subcutaneous Insulin Infusion or Multiple Daily Insulin Injections. Transplantation*, 2017. **101**(6): p. 1268-1275.
 644. Huang, H.L., et al., *Role of integrin-linked kinase in regulating the protein stability of the MUC1-C oncoprotein in pancreatic cancer cells. Oncogenesis*, 2017. **6**(7): p. e359.
 645. Huang, S., et al., *Transient receptor potential melastatin 2 channels (TRPM2) mediate neonatal hypoxic-ischemic brain injury in mice. Exp Neurol*, 2017. **296**: p. 32-40.
 646. Huang, S., et al., *GSK-3beta inhibitor TDZD-8 reduces neonatal hypoxic-ischemic brain injury in mice. CNS Neurosci Ther*, 2017. **23**(5): p. 405-415.
 647. Huang, X., et al., *Genome editing abrogates angiogenesis in vivo. Nat Commun*, 2017. **8**(1): p. 112.
 648. Hufgard, J.R., et al., *Phosphodiesterase-1b (Pde1b) knockout mice are resistant to forced swim and tail suspension induced immobility and show upregulation of Pde10a. Psychopharmacology (Berl)*, 2017. **234**(12): p. 1803-1813.
 649. Huizenga, M.N., et al., *Anticonvulsant effect of cannabinoid receptor agonists in models of seizures in developing rats. Epilepsia*, 2017. **58**(9): p. 1593-1602.
 650. Huuskonen, M.T., et al., *The copper bis (thiosemicarbazone) complex Cu II (atsm) is protective against cerebral ischemia through modulation of the inflammatory milieu. Neurotherapeutics*, 2017. **14**(2): p. 519-532.
 651. Ianniciello, A., et al., *Chronic myeloid leukemia progenitor cells require autophagy when leaving hypoxia-induced quiescence. Oncotarget*, 2017. **8**(57): p. 96984.
 652. Ibrahim, Y.F., et al., *Docetaxel Reverses Pulmonary Vascular Remodeling by Decreasing Autophagy and Resolves Right Ventricular Fibrosis. J Pharmacol Exp Ther*, 2017. **363**(1): p. 20-34.
 653. Ito, M., et al., *Genetic ablation of Bach1 gene enhances recovery from hyperoxic lung injury in newborn mice via transient upregulation of inflammatory genes. Pediatr Res*, 2017. **81**(6): p. 926-931.
 654. Jamali, N., et al., *Vitamin D receptor expression is essential during retinal vascular development and attenuation of neovascularization by 1, 25 (OH) 2D3. PloS one*, 2017. **12**(12).
 655. Jin, M., et al., *Glycolytic Enzymes Coalesce in G Bodies under Hypoxic Stress. Cell Rep*, 2017. **20**(4): p. 895-908.
 656. Kang, H.H., et al., *Chronic intermittent hypoxia induces liver fibrosis in mice with diet-induced obesity via TLR4/MyD88/MAPK/NF-kB signaling pathways. Biochem Biophys Res Commun*, 2017. **490**(2): p. 349-355.
 657. Kathiriya, J.J., et al., *Galectin-1 inhibition attenuates profibrotic signaling in hypoxia-induced pulmonary fibrosis. Cell Death Discov*, 2017. **3**(1): p. 17010.

658. Kawaguchi, T., et al., *Probucol attenuates hyperoxia-induced lung injury in mice*. PLoS One, 2017. **12**(4): p. e0175129.
659. Kerr, F., et al., *Direct Keap1-Nrf2 disruption as a potential therapeutic target for Alzheimer's disease*. PLoS genetics, 2017. **13**(3).
660. Khalyfa, A., et al., *Late gestational intermittent hypoxia induces metabolic and epigenetic changes in male adult offspring mice*. J Physiol, 2017. **595**(8): p. 2551-2568.
661. Kim, H., et al., *Histological and functional assessment of the efficacy of constraint-induced movement therapy in rats following neonatal hypoxic-ischemic brain injury*. Exp Ther Med, 2017. **13**(6): p. 2775-2782.
662. Kim, K.L. and W. Suh, *Apatinib, an Inhibitor of Vascular Endothelial Growth Factor Receptor 2, Suppresses Pathologic Ocular Neovascularization in Mice*. Invest Ophthalmol Vis Sci, 2017. **58**(9): p. 3592-3599.
663. Kitagawa, M.G., et al., *hemodynamic and Pathologic characterization of the Task-1-/- Mouse Does not Demonstrate Pulmonary hypertension*. Frontiers in medicine, 2017. **4**: p. 177.
664. Klein, C., et al., *Overcoming hypoxia-induced tumor radioresistance in non-small cell lung cancer by targeting DNA-dependent protein kinase in combination with carbon ion irradiation*. Radiat Oncol, 2017. **12**(1): p. 208.
665. Klimkiewicz, K., et al., *A 3D model of tumour angiogenic microenvironment to monitor hypoxia effects on cell interactions and cancer stem cell selection*. Cancer Lett, 2017. **396**: p. 10-20.
666. Klofers, M., et al., *Effects of Poly(ADP-Ribose) Polymerase-1 Inhibition in a Neonatal Rodent Model of Hypoxic-Ischemic Injury*. Biomed Res Int, 2017. **2017**: p. 2924848.
667. Kobayashi, K., et al., *Dynamics of angiogenesis in ischemic areas of the infarcted heart*. Sci Rep, 2017. **7**(1): p. 7156.
668. Korayem, A.H., et al., *Endothelial cAMP deactivates ischemia/reperfusion-induced microvascular hyperpermeability via Rap1-mediated mechanisms*. American Journal of Physiology-Heart and Circulatory Physiology, 2017: p. ajpheart. 00002.2017.
669. Kumar, R., et al., *TGF- β activation by bone marrow-derived thrombospondin-1 causes Schistosoma-and hypoxia-induced pulmonary hypertension*. Nature communications, 2017. **8**(1): p. 1-13.
670. Kuo, C.-W., et al., *mtDNA as a Mediator for Expression of Hypoxia-Inducible Factor 1 α and ROS in Hypoxic Neuroblastoma Cells*. International Journal of Molecular Sciences, 2017. **18**(6): p. 1220.
671. Kusuma, G.D., et al., *Effect of the Microenvironment on Mesenchymal Stem Cell Paracrine Signaling: Opportunities to Engineer the Therapeutic Effect*. Stem Cells Dev, 2017. **26**(9): p. 617-631.
672. Labuz, J.M., et al., *Building an experimental model of the human body with non-physiological parameters*. Technology (Singap World Sci), 2017. **5**(1): p. 42-59.
673. Lajko, M., et al., *Photoreceptor oxidative stress in hyperoxia-induced proliferative retinopathy accelerates rd8 degeneration*. PLoS One, 2017. **12**(7): p. e0180384.

674. Lamothe, S.M., et al., *Hypoxia reduces mature hERG channels through calpain up-regulation*. The FASEB Journal, 2017. **31**(11): p. 5068-5077.
675. Laouafa, S., et al., *Estradiol Protects Against Cardiorespiratory Dysfunctions and Oxidative Stress in Intermittent Hypoxia*. Sleep, 2017. **40**(8).
676. Lee, J., et al., *Plastic roles of pericytes in the blood–retinal barrier*. Nature communications, 2017. **8**(1): p. 1-16.
677. Lee, S., et al., *Analysis of CCN Protein Expression and Activities in Vasoproliferative Retinopathies*. Methods Mol Biol, 2017. **1489**: p. 543-556.
678. Lee, S., et al., *Interplay between CCN1 and Wnt5a in endothelial cells and pericytes determines the angiogenic outcome in a model of ischemic retinopathy*. Scientific reports, 2017. **7**.
679. Li, C., et al., *Protective effect of cyanidin-3-O-glucoside on neonatal porcine islets*. J Endocrinol, 2017. **235**(3): p. 237-249.
680. Li, C., et al., *Rapamycin Promotes the Survival and Adipogenesis of Ischemia-Challenged Adipose Derived Stem Cells by Improving Autophagy*. Cell Physiol Biochem, 2017. **44**(5): p. 1762-1774.
681. Li, F., et al., *Orientin reduces myocardial infarction size via eNOS/NO signaling and thus mitigates adverse cardiac remodeling*. Frontiers in pharmacology, 2017. **8**: p. 926.
682. Li, G., et al., *Fork Head Box Class O1 (FOXO1) Activates Bim Expression to Mediate Cardiac Apoptosis in Chronic Intermittent Hypoxia-Induced Cardiac Hypertrophy*. Med Sci Monit, 2017. **23**: p. 3603-3616.
683. Li, H., et al., *Loss of CD73-mediated extracellular adenosine production exacerbates inflammation and abnormal alveolar development in newborn mice exposed to prolonged hyperoxia*. Pediatr Res, 2017. **82**(6): p. 1039-1047.
684. Li, L., et al., *Forkhead box O3 (FoxO3) regulates kidney tubular autophagy following urinary tract obstruction*. J Biol Chem, 2017. **292**(33): p. 13774-13783.
685. Liao, P.L., et al., *Anti-inflammatory properties of shikonin contribute to improved early-stage diabetic retinopathy*. Sci Rep, 2017. **7**: p. 44985.
686. Lim, R., et al., *A Pilot Study Evaluating the Safety of Intravenously Administered Human Amnion Epithelial Cells for the Treatment of Hepatic Fibrosis*. Front Pharmacol, 2017. **8**: p. 549.
687. Lin, Y.J., et al., *Tumor Hypoxia Regulates Forkhead Box C1 to Promote Lung Cancer Progression*. Theranostics, 2017. **7**(5): p. 1177-1191.
688. Liu, K.X., et al., *Inhibition of microRNA-218 reduces HIF-1alpha by targeting on Robo1 in mice aortic endothelial cells under intermittent hypoxia*. Oncotarget, 2017. **8**(61): p. 104359-104366.
689. Liu, Y., et al., *Gremlin promotes retinal pigmentation epithelial (RPE) cell proliferation, migration and VEGF production via activating VEGFR2-Akt-mTORC2 signaling*. Oncotarget, 2017. **8**(1): p. 979-987.
690. Loncaric, D., P. Duchez, and Z. Ivanovic, *To harness stem cells by manipulation of energetic metabolism*. Transfus Clin Biol, 2017. **24**(4): p. 468-471.
691. Looney, A.P., et al., *Synergistic Role of Endothelial ERG and FLI1 in Mediating Pulmonary Vascular Homeostasis*. Am J Respir Cell Mol Biol, 2017. **57**(1): p. 121-131.

692. Lu, L., et al., *Placental Stem Villus Arterial Remodeling Associated with Reduced Hydrogen Sulfide Synthesis Contributes to Human Fetal Growth Restriction*. Am J Pathol, 2017. **187**(4): p. 908-920.
693. Lu, Y., et al., *Glucose-6-Phosphate Isomerase (G6PI) Mediates Hypoxia-Induced Angiogenesis in Rheumatoid Arthritis*. Sci Rep, 2017. **7**: p. 40274.
694. Luo, M., et al., *Annexin A2 supports pulmonary microvascular integrity by linking vascular endothelial cadherin and protein tyrosine phosphatases*. J Exp Med, 2017. **214**(9): p. 2535-2545.
695. Lynch, B., et al., *The effect of hypoxia on thermosensitive poly(N-vinylcaprolactam) hydrogels with tunable mechanical integrity for cartilage tissue engineering*. J Biomed Mater Res B Appl Biomater, 2017. **105**(7): p. 1863-1873.
696. Mankouski, A., et al., *Intermittent hypoxia during recovery from neonatal hyperoxic lung injury causes long-term impairment of alveolar development: A new rat model of BPD*. Am J Physiol Lung Cell Mol Physiol, 2017. **312**(2): p. L208-L216.
697. Mantripragada, V.P., et al., *Histopathological assessment of primary osteoarthritic knees in large patient cohort reveal the possibility of several potential patterns of osteoarthritis initiation*. Curr Res Transl Med, 2017. **65**(4): p. 133-139.
698. Massa, A., et al., *The effect of extracellular acidosis on the behaviour of mesenchymal stem cells in vitro*. Eur Cell Mater, 2017. **33**: p. 252-267.
699. Masuda, T., et al., *Apolipoprotein E2 and E3, but Not E4, Promote Retinal Pathologic Neovascularization* ApoE2 and ApoE3 Promote Retinal Angiogenesis. Investigative Ophthalmology & Visual Science, 2017. **58**(2): p. 1208-1217.
700. Mata-Greenwood, E., D. Goyal, and R. Goyal, *Comparative and Experimental Studies on the Genes Altered by Chronic Hypoxia in Human Brain Microendothelial Cells*. Front Physiol, 2017. **8**: p. 365.
701. Mathieu, R., et al., *Neonatal exposure to high oxygen levels leads to impaired ischemia-induced neovascularization in adulthood*. Sci Rep, 2017. **7**(1): p. 14143.
702. Matsumoto, T., et al., *Retinal VEGF levels correlate with ocular circulation measured by a laser speckle-micro system in an oxygen-induced retinopathy rat model*. Graefes Arch Clin Exp Ophthalmol, 2017. **255**(10): p. 1981-1990.
703. Meinert, C., et al., *A novel bioreactor system for biaxial mechanical loading enhances the properties of tissue-engineered human cartilage*. Sci Rep, 2017. **7**(1): p. 16997.
704. Mendez-Sanchez, J.F. and W.W. Burggren, *Cardiorespiratory physiological phenotypic plasticity in developing air-breathing anabantid fishes (Betta splendens and Trichopodus trichopterus)*. Physiol Rep, 2017. **5**(15).
705. Mills, D.R., et al., *Effects of human umbilical cord blood mononuclear cells on respiratory system mechanics in a murine model of neonatal lung injury*. Exp Lung Res, 2017. **43**(2): p. 66-81.
706. Mossman, J.A., et al., *Mitochondrial Interactions Mediate Transcriptional Responses to Hypoxia in Drosophila*. Mol Biol Evol, 2017. **34**(2): p. 447-466.

707. Moya, A., et al., *Quiescence Preconditioned Human Multipotent Stromal Cells Adopt a Metabolic Profile Favorable for Enhanced Survival under Ischemia*. Stem Cells, 2017. **35**(1): p. 181-196.
708. Murata, K., et al., *Hypoxia-Sensitive COMMD1 Integrates Signaling and Cellular Metabolism in Human Macrophages and Suppresses Osteoclastogenesis*. Immunity, 2017. **47**(1): p. 66-79 e5.
709. Muthyala, S., et al., *The effect of hypoxia on free and encapsulated adult porcine islets-an in vitro study*. Xenotransplantation, 2017. **24**(1).
710. Nagaraj, C., et al., *Hypoxic vascular response and ventilation/perfusion matching in end-stage COPD may depend on p22phox*. Eur Respir J, 2017. **50**(1).
711. Nagy, B.M., et al., *Lack of ABCG2 Leads to Biventricular Dysfunction and Remodeling in Response to Hypoxia*. Front Physiol, 2017. **8**: p. 98.
712. Nagy, B.M., et al., *Importance of kynurenine in pulmonary hypertension*. Am J Physiol Lung Cell Mol Physiol, 2017. **313**(5): p. L741-L751.
713. Nakagawa, M., et al., *Impaired nephrogenesis in neonatal rats with oxygen-induced retinopathy*. Pediatr Int, 2017. **59**(6): p. 704-710.
714. Ng, M., et al., *Stem cell industry update: 2012 to 2016 reveals accelerated investment, but market capitalization and earnings lag*. Cytotherapy, 2017. **19**(10): p. 1131-1139.
715. Nie, X., et al., *Noradrenergic Activation of Hypoglossal Nucleus Modulates the Central Regulation of Genioglossus in Chronic Intermittent Hypoxic Rats*. Front Neurol, 2017. **8**(171): p. 171.
716. Nowak, G., D. Takacsova-Bakajsova, and J. Megyesi, *Deletion of protein kinase C-epsilon attenuates mitochondrial dysfunction and ameliorates ischemic renal injury*. Am J Physiol Renal Physiol, 2017. **312**(1): p. F109-F120.
717. Ortega, J.A., et al., *Oxygen Levels Regulate the Development of Human Cortical Radial Glia Cells*. Cereb Cortex, 2017. **27**(7): p. 3736-3751.
718. Ortega, O., A. Ondo-Mendez, and R. Garzon, *[STAT3 activation by hypoxia in in vitro models of cervix cancer and endothelial cells]*. Biomedica, 2017. **37**(1): p. 119-130.
719. O'Shea, K.M., et al., *The Formin, DIAPH1, is a Key Modulator of Myocardial Ischemia/Reperfusion Injury*. EBioMedicine, 2017. **26**(Supplement C): p. 165-174.
720. Oshikawa, M., et al., *Affinity-Immobilization of VEGF on Laminin Porous Sponge Enhances Angiogenesis in the Ischemic Brain*. Adv Healthc Mater, 2017. **6**(11): p. 1700183-n/a.
721. Oshikawa, M., et al., *Dnmt1-dependent Chk1 pathway suppression is protective against neuron division*. Development, 2017. **144**(18): p. 3303-3314.
722. Patel, H., et al., *Hypoxia-induced activation of specific members of the NF-kB family and its relevance to pulmonary vascular remodeling*. Int J Biochem Cell Biol, 2017. **92**(Supplement C): p. 141-147.
723. Patterson, T.E., et al., *The Efficiency of Bone Marrow Aspiration for the Harvest of Connective Tissue Progenitors from the Human Iliac Crest*. J Bone Joint Surg Am, 2017. **99**(19): p. 1673-1682.

724. Pedersen, A.K., et al., *Tumor microenvironment conditions alter Akt and Na(+)/H(+) exchanger NHE1 expression in endothelial cells more than hypoxia alone: implications for endothelial cell function in cancer*. BMC Cancer, 2017. **17**(1): p. 542.
725. Penumatsa, K.C., et al., *Transglutaminase 2 in pulmonary and cardiac tissue remodeling in experimental pulmonary hypertension*. Am J Physiol Lung Cell Mol Physiol, 2017. **313**(5): p. L752-L762.
726. Perez, M., et al., *Aberrant cGMP signaling persists during recovery in mice with oxygen-induced pulmonary hypertension*. PLoS One, 2017. **12**(8): p. e0180957.
727. Phillips, T.J., et al., *Treating the placenta to prevent adverse effects of gestational hypoxia on fetal brain development*. Sci Rep, 2017. **7**(1): p. 9079.
728. Phinney, D.G. and M.F. Pittenger, *Concise Review: MSC-Derived Exosomes for Cell-Free Therapy*. Stem Cells, 2017. **35**(4): p. 851-858.
729. Piuze, N.S., et al., *Analysis of Cell Therapies Used in Clinical Trials for the Treatment of Osteonecrosis of the Femoral Head: A Systematic Review of the Literature*. J Arthroplasty, 2017. **32**(8): p. 2612-2618.
730. Piuze, N.S., et al., *Evidence for the Use of Cell-Based Therapy for the Treatment of Osteonecrosis of the Femoral Head: A Systematic Review of the Literature*. J Arthroplasty, 2017. **32**(5): p. 1698-1708.
731. Piuze, N.S., et al., *Platelet-Rich Plasma for the Treatment of Knee Osteoarthritis: A Review*. J Knee Surg, 2017. **30**(7): p. 627-633.
732. Piuze, N.S., et al., *Cellular Therapies in Orthopedics: Where Are We?* Surg Technol Int, 2017. **31**: p. 359-364.
733. Piuze, N.S. and G.F. Muschler, *CORR Insights((R)): Which Clinical and Patient Factors Influence the National Economic Burden of Hospital Readmissions After Total Joint Arthroplasty*. Clin Orthop Relat Res, 2017. **475**(12): p. 2938-2940.
734. Polke, M., et al., *Hypoxia and the hypoxia-regulated transcription factor HIF-1alpha suppress the host defence of airway epithelial cells*. Innate Immun, 2017. **23**(4): p. 373-380.
735. Polsek, D., et al., *A novel adjustable automated system for inducing chronic intermittent hypoxia in mice*. PLoS One, 2017. **12**(3): p. e0174896.
736. Prokesch, A., et al., *Placental DAPK1 and autophagy marker LC3B-II are dysregulated by TNF-alpha in a gestational age-dependent manner*. Histochem Cell Biol, 2017. **147**(6): p. 695-705.
737. Qian, Z., et al., *Effects of Short Term Hypoxia-Preconditioning on Glial Phenotype Induction of Human Mesenchymal Stem Cells*. AIMS Cell and Tissue Engineering, 2017. **1**(1): p. 47.
738. Qin, J., et al., *Hypoxia-inducible factor 1 alpha promotes cancer stem cells-like properties in human ovarian cancer cells by upregulating SIRT1 expression*. Sci Rep, 2017. **7**(1): p. 10592.
739. Quan, M., et al., *MnTBAP or catalase is more protective against oxidative stress in human retinal endothelial cells exposed to intermittent hypoxia than their co-administration (EUK-134)*. Reactive Oxygen Species, 2017. **3**(7).
740. Rakocinski, C.F. and K.B. Gillam, *Temperature-modulated expression of allometric respiration strategies supports a metabolic scaling rule*. Frontiers in Marine Science, 2017. **4**: p. 261.

741. Ramachandran, S., et al., *Plasma microvesicle analysis identifies microRNA 129-5p as a biomarker of heart failure in univentricular heart disease*. PLoS One, 2017. **12**(8): p. e0183624.
742. Ramkumar, P.N., et al., *Cellular therapy injections in today's orthopedic market: A social media analysis*. Cytotherapy, 2017. **19**(12): p. 1392-1399.
743. Rashid, J., et al., *Inhaled sildenafil as an alternative to oral sildenafil in the treatment of pulmonary arterial hypertension (PAH)*. Journal of Controlled Release, 2017. **250**: p. 96-106.
744. Raudenska, M., et al., *VPA does not enhance platinum binding to DNA in cisplatin-resistant neuroblastoma cancer cells*. Tumour Biol, 2017. **39**(9): p. 1010428317711656.
745. Ren, H., et al., *Stem Cell Factor/Kit Signal Insufficiency Contributes to Hypoxia-Induced Intestinal Motility Dysfunctions in Neonatal Mice*. Dig Dis Sci, 2017. **62**(5): p. 1193-1203.
746. Ren, H. and K. Hu, *Inflammatory and oxidative stress-associated factors in chronic intermittent hypoxia in Chinese patients, rats, lymphocytes and endotheliocytes*. Molecular medicine reports, 2017. **16**(6): p. 8092-8102.
747. Ren, J., et al., *Losartan attenuates aortic endothelial apoptosis induced by chronic intermittent hypoxia partly via the phospholipase C pathway*. Sleep Breath, 2017. **21**(3): p. 679-689.
748. Richards, D.J., et al., *Inspiration from heart development: Biomimetic development of functional human cardiac organoids*. Biomaterials, 2017. **142**: p. 112-123.
749. Riffle, S., et al., *Linking hypoxia, DNA damage and proliferation in multicellular tumor spheroids*. BMC Cancer, 2017. **17**(1): p. 338.
750. Riis, S., et al., *Hypoxia enhances the wound-healing potential of adipose-derived stem cells in a novel human primary keratinocyte-based scratch assay*. Int J Mol Med, 2017. **39**(3): p. 587-594.
751. Rivera, J.C., et al., *Tetrahydrobiopterin (BH4) deficiency is associated with augmented inflammation and microvascular degeneration in the retina*. J Neuroinflammation, 2017. **14**(1): p. 181.
752. Roeper, M., R.C. Braun-Dullaes, and S. Weinert, *Semiautomatic High-Content Analysis of Complex Images from Cocultures of Vascular Smooth Muscle Cells and Macrophages: A CellProfiler Showcase*. SLAS Discov, 2017. **22**(7): p. 837-847.
753. Roy, S., et al., *Autophagy-Dependent Shuttling of TBC1D5 Controls Plasma Membrane Translocation of GLUT1 and Glucose Uptake*. Mol Cell, 2017. **67**(1): p. 84-95 e5.
754. Rumsey, W.L., et al., *Effects of airborne toxicants on pulmonary function and mitochondrial DNA damage in rodent lungs*. Mutagenesis, 2017. **32**(3): p. 343-353.
755. Ryu, H.W., et al., *HDAC6 regulates sensitivity to cell death in response to stress and post-stress recovery*. Cell Stress Chaperones, 2017. **22**(2): p. 253-261.
756. Sacchetti, B., et al., *Effect of miR-204&211 and RUNX2 control on the fate of human mesenchymal stromal cells*. Regen Med Res, 2017. **5**: p. 2.

757. Sandvig, I., et al., *Strategies to Enhance Implantation and Survival of Stem Cells After Their Injection in Ischemic Neural Tissue*. Stem Cells Dev, 2017. **26**(8): p. 554-565.
758. Sandvoß, M., et al., *HELLP Syndrome: Altered Hypoxic Response of the Fatty Acid Oxidation Regulator SIRT 4*. Reproductive Sciences, 2017. **24**(4): p. 568-574.
759. Scharping, N.E., et al., *Efficacy of PD-1 Blockade Is Potentiated by Metformin-Induced Reduction of Tumor Hypoxia*. Cancer Immunol Res, 2017. **5**(1): p. 9-16.
760. Schlosser, K., et al., *Lack of elevation in plasma levels of pro-inflammatory cytokines in common rodent models of pulmonary arterial hypertension: questions of construct validity for human patients*. Pulm Circ, 2017. **7**(2): p. 476-485.
761. Schwingshackl, A., et al., *Hyperoxia treatment of TREK-1/TREK-2/TRAAK-deficient mice is associated with a reduction in surfactant proteins*. Am J Physiol Lung Cell Mol Physiol, 2017. **313**(6): p. L1030-L1046.
762. Schwingshackl, A., et al., *Translational Research in Acute Lung Injury and Pulmonary Fibrosis: Hyperoxia treatment of TREK-1/TREK-2/TRAAK-deficient mice is associated with a reduction in surfactant proteins*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2017. **313**(6): p. L1030.
763. Sethumadhavan, S., et al., *Hypoxia and hypoxia-inducible factor (HIF) downregulate antigen-presenting MHC class I molecules limiting tumor cell recognition by T cells*. PLoS One, 2017. **12**(11): p. e0187314.
764. Shan, L.N., et al., *The significant effect of chronic intermittent hypoxia on prostaglandin D2 biosynthesis in rat brain*. Biochem Biophys Res Commun, 2017. **483**(1): p. 283-287.
765. Sharma, S., et al., *Transient overexpression of exogenous APOBEC3A causes C-to-U RNA editing of thousands of genes*. RNA Biol, 2017. **14**(5): p. 603-610.
766. Sharma, S., et al., *Mitochondrial complex II regulates a distinct oxygen sensing mechanism in monocytes*. Hum Mol Genet, 2017. **26**(7): p. 1328-1339.
767. Sharma, T.P., et al., *Patient-specific induced pluripotent stem cells to evaluate the pathophysiology of TRNT1-associated Retinitis pigmentosa*. Stem Cell Res, 2017. **21**: p. 58-70.
768. Shi, Y., et al., *Monitoring and Targeting Anti-VEGF Induced Hypoxia within the Viable Tumor by (19)F-MRI and Multispectral Analysis*. Neoplasia, 2017. **19**(11): p. 950-959.
769. Shi, Y.J., et al., *The integration of multiple signaling pathways provides for bidirectional control of CRHR1 gene transcription in rat pituitary cell during hypoxia*. Mol Cell Endocrinol, 2017. **454**: p. 12-22.
770. Singh, J.N., et al., *Quantifying three-dimensional rodent retina vascular development using optical tissue clearing and light-sheet microscopy*. J Biomed Opt, 2017. **22**(7): p. 76011.
771. Sniegon, I., et al., *Endothelial mesenchymal transition in hypoxic microvascular endothelial cells and paracrine induction of cardiomyocyte apoptosis are mediated via TGFβ1/SMAD signaling*. International journal of molecular sciences, 2017. **18**(11): p. 2290.

772. Son, J.H., et al., *A novel combination treatment to stimulate bone healing and regeneration under hypoxic conditions: photobiomodulation and melatonin*. *Lasers Med Sci*, 2017. **32**(3): p. 533-541.
773. Song, A., et al., *Erythrocytes retain hypoxic adenosine response for faster acclimatization upon re-ascent*. *Nature Communications*, 2017. **8**: p. 14108.
774. Songstad, A.E., et al., *Connective Tissue Growth Factor Promotes Efficient Generation of Human Induced Pluripotent Stem Cell-Derived Choroidal Endothelium*. *Stem Cells Transl Med*, 2017. **6**(6): p. 1533-1546.
775. Stokes, R.A., et al., *Transplantation sites for human and murine islets*. *Diabetologia*, 2017. **60**(10): p. 1961-1971.
776. Suh, J.H., et al., *Steroid receptor coactivator-2 (SRC-2) coordinates cardiomyocyte paracrine signaling to promote pressure overload–induced angiogenesis*. *Journal of Biological Chemistry*, 2017. **292**(52): p. 21643-21652.
777. Tang, M., et al., *Discordant mRNA and protein expression of CXCR4 under in vitro CoCl₂-induced hypoxic conditions*. *Biochemical and Biophysical Research Communications*, 2017. **484**(2): p. 285-291.
778. Tang, X., et al., *hCLOCK induction by hypoxia promotes inflammatory responses by activating the NF- κ B pathway*. *Molecular medicine reports*, 2017. **15**(3): p. 1401-1406.
779. Tatin, F., et al., *Apelin modulates pathological remodeling of lymphatic endothelium after myocardial infarction*. *JCI Insight*, 2017. **2**(12).
780. Tejchman, A., et al., *Tumor hypoxia modulates podoplanin/CCL21 interactions in CCR7⁺ NK cell recruitment and CCR7⁺ tumor cell mobilization*. *Oncotarget*, 2017. **8**(19): p. 31876-31887.
781. Teo, J.D., M.J. Morris, and N.M. Jones, *Maternal obesity increases inflammation and exacerbates damage following neonatal hypoxic-ischaemic brain injury in rats*. *Brain Behav Immun*, 2017. **63**: p. 186-196.
782. Teo, J.D., M.J. Morris, and N.M. Jones, *Hypoxic postconditioning improves behavioural deficits at 6 weeks following hypoxic-ischemic brain injury in neonatal rats*. *Behavioural Brain Research*, 2017. **333**: p. 27-34.
783. Thiagarajan, D., et al., *Aldose reductase modulates acute activation of mesenchymal markers via the beta-catenin pathway during cardiac ischemia-reperfusion*. *PLoS One*, 2017. **12**(11): p. e0188981.
784. Tilwani, R.K., et al., *Oxygen tension modulates the effects of TNF α in compressed chondrocytes*. *Inflamm Res*, 2017. **66**(1): p. 49-58.
785. Touma, M., et al., *Wnt11 regulates cardiac chamber development and disease during perinatal maturation*. *JCI Insight*, 2017. **2**(17).
786. Truong, G., et al., *Oxygen tension regulates the miRNA profile and bioactivity of exosomes released from extravillous trophoblast cells—liquid biopsies for monitoring complications of pregnancy*. *PLoS One*, 2017. **12**(3).
787. Tsang, K.M., et al., *Embryonic Stem Cell Differentiation to Functional Arterial Endothelial Cells through Sequential Activation of ETV2 and NOTCH1 Signaling by HIF1 α* . *Stem Cell Reports*, 2017.
788. Turan, S., G.W. Aberdeen, and L.P. Thompson, *Chronic hypoxia alters maternal uterine and fetal hemodynamics in the full-term pregnant guinea pig*. *Am J Physiol Regul Integr Comp Physiol*, 2017. **313**(4): p. R330-R339.

789. van Dijk, I., et al., *COMBINED IMPACTS OF OCEAN ACIDIFICATION AND DYSOXIA ON SURVIVAL AND GROWTH OF FOUR AGGLUTINATING FORAMINIFERA*. Journal of Foraminiferal Research, 2017. **47**(3): p. 294-303.
790. Vargas, V.E., et al., *Gestational hypoxia disrupts the neonatal leptin surge and programs hyperphagia and obesity in male offspring in the Sprague-Dawley rat*. PLoS One, 2017. **12**(9): p. e0185272.
791. Villacampa, P., et al., *Accelerated oxygen-induced retinopathy is a reliable model of ischemia-induced retinal neovascularization*. PloS one, 2017. **12**(6): p. e0179759.
792. Vuletic, I., et al., *Validation of Bevacizumab Therapy Effect on Colon Cancer Subtypes by Using Whole Body Imaging in Mice*. Mol Imaging Biol, 2017. **19**(6): p. 847-856.
793. Wakeland, A.K., et al., *Hypoxia Directs Human Extravillous Trophoblast Differentiation in a Hypoxia-Inducible Factor-Dependent Manner*. Am J Pathol, 2017. **187**(4): p. 767-780.
794. Wang, D., et al., *BIRC3 is a biomarker of mesenchymal habitat of glioblastoma, and a mediator of survival adaptation in hypoxia-driven glioblastoma habitats*. Sci Rep, 2017. **7**(1): p. 9350.
795. Wang, H., et al., *Mesenchymal stem cells microvesicles stabilize endothelial barrier function partly mediated by hepatocyte growth factor (HGF)*. Stem Cell Res Ther, 2017. **8**(1): p. 211.
796. Wang, S., et al., *Bim expression in endothelial cells and pericytes is essential for regression of the fetal ocular vasculature*. PLoS One, 2017. **12**(5): p. e0178198.
797. Wang, Z.H., et al., *Inhibition of Rho-kinase Attenuates Left Ventricular Remodeling Caused by Chronic Intermittent Hypoxia in Rats via Suppressing Myocardial Inflammation and Apoptosis*. J Cardiovasc Pharmacol, 2017. **70**(2): p. 102-109.
798. Wani, A., et al., *Surface PEGylation of Mesoporous Silica Nanorods (MSNR): Effect on loading, release, and delivery of mitoxantrone in hypoxic cancer cells*. Sci Rep, 2017. **7**(1): p. 2274.
799. Wiley, L.A., et al., *Generation of Xeno-Free, cGMP-Compliant Patient-Specific iPSCs from Skin Biopsy*. Curr Protoc Stem Cell Biol, 2017. **42**: p. 4A 12 1-4A 12 14.
800. Wohlkoenig, C., et al., *TR3 is involved in hypoxia-induced apoptosis resistance in lung cancer cells downstream of HIF-1 α* . Lung Cancer, 2017.
801. Wong, E., et al., *The multi-level impact of chronic intermittent hypoxia on central auditory processing*. Neuroimage, 2017. **156**: p. 232-239.
802. Worthington, K.S., et al., *Two-photon polymerization for production of human iPSC-derived retinal cell grafts*. Acta Biomater, 2017. **55**: p. 385-395.
803. Wu, J., P. Li, and X. Wu, *The effect of chronic intermittent hypoxia on respiratory sensitivity to morphine in rats*. Sleep Breath, 2017. **21**(1): p. 227-233.
804. Wu, J., et al., *Lung protection by inhalation of exogenous solubilized extracellular matrix*. PLoS One, 2017. **12**(2): p. e0171165.
805. Xu, D., et al., *The triterpenoid CDDO-imidazolide ameliorates mouse liver ischemia-reperfusion injury through activating the Nrf2/HO-1 pathway enhanced autophagy*. Cell Death and Disease, 2017. **8**(8).

806. Xue, J., et al., *Intermittent Hypoxia and Hypercapnia Accelerate Atherosclerosis, Partially via Trimethylamine-Oxide*. Am J Respir Cell Mol Biol, 2017. **57**(5): p. 581-588.
807. Yada, R.C., et al., *Rhesus Macaque iPSC Generation and Maintenance*. Curr Protoc Stem Cell Biol, 2017. **41**: p. 4A 11 1-4A 11 13.
808. Yang, X., et al., *YAP mediate hypoxia-induced pancreatic cancer cells invasion and migration via promoting survivin expression*. Cancer Cell Research, 2017. **14**: p. 356-361.
809. Yonchuk, J.G., et al., *Characterization of the Potent, Selective Nrf2 Activator, 3-(Pyridin-3-Ylsulfonyl)-5-(Trifluoromethyl)-2H-Chromen-2-One, in Cellular and In Vivo Models of Pulmonary Oxidative Stress*. J Pharmacol Exp Ther, 2017. **363**(1): p. 114-125.
810. Yong, K.W., et al., *Assessment of tumourigenic potential in long-term cryopreserved human adipose-derived stem cells*. J Tissue Eng Regen Med, 2017. **11**(8): p. 2217-2226.
811. Yoon, D.W., et al., *Accelerated tumor growth under intermittent hypoxia is associated with hypoxia-inducible factor-1-dependent adaptive responses to hypoxia*. Oncotarget, 2017.
812. Zhang, D., et al., *Integrin alphavbeta5 inhibition protects against ischemia-reperfusion-induced lung injury in an autophagy-dependent manner*. Am J Physiol Lung Cell Mol Physiol, 2017. **313**(2): p. L384-L394.
813. Zhang, Q.Y., et al., *Novel Therapeutic Effects of Leonurine On Ischemic Stroke: New Mechanisms of BBB Integrity*. Oxid Med Cell Longev, 2017. **2017**: p. 7150376.
814. Zhang, W., et al., *Follistatin-like 1 protects against hypoxia-induced pulmonary hypertension in mice*. Sci Rep, 2017. **7**: p. 45820.
815. Zhang, Y., et al., *Nrdp1 increases ischemia induced primary rat cerebral cortical neurons and pheochromocytoma cells apoptosis via downregulation of HIF-1 α protein*. Frontiers in cellular neuroscience, 2017. **11**: p. 293.
816. Zhao, Y., et al., *GSK-3 β inhibition induced neuroprotection, regeneration, and functional recovery after intracerebral hemorrhagic stroke*. Cell transplantation, 2017. **26**(3): p. 395-407.
817. Zhou, Y., A.M. Richards, and P. Wang, *Characterization and Standardization of Cultured Cardiac Fibroblasts for Ex Vivo Models of Heart Fibrosis and Heart Ischemia*. Tissue Eng Part C Methods, 2017. **23**(7): p. 422-433.
818. Zhu, Y., et al., *Identification of different macrophage subpopulations with distinct activities in a mouse model of oxygen-induced retinopathy*. Int J Mol Med, 2017. **40**(2): p. 281-292.
819. Zungu-Edmondson, M., et al., *Natural reversal of pulmonary vascular remodeling and right ventricular remodeling in SU5416/hypoxia-treated Sprague-Dawley rats*. PLoS One, 2017. **12**(8): p. e0182551.
820. Abdel-Wahab, B.A. and M.M. Abdel-Wahab, *Protective effect of resveratrol against chronic intermittent hypoxia-induced spatial memory deficits, hippocampal oxidative DNA damage and increased p47Phox NADPH oxidase expression in young rats*. Behav Brain Res, 2016. **305**: p. 65-75.

821. Agematsu, K., et al., *Hypoxia diminishes the protective function of white-matter astrocytes in the developing brain*. J Thorac Cardiovasc Surg, 2016. **151**(1): p. 265-72 e1-3.
822. Agrawal, R., et al., *Pluripotent and Multipotent Stem Cells Display Distinct Hypoxic miRNA Expression Profiles*. PLoS One, 2016. **11**(10): p. e0164976.
823. Ahlfeld, S.K., et al., *Initial Suppression of Transforming Growth Factor-beta Signaling and Loss of TGFBI Causes Early Alveolar Structural Defects Resulting in Bronchopulmonary Dysplasia*. Am J Pathol, 2016. **186**(4): p. 777-93.
824. Al-Assar, O., et al., *The radiosensitizing effects of Nelfinavir on pancreatic cancer with and without pancreatic stellate cells*. Radiotherapy and Oncology, 2016.
825. Alhallak, K., L. Rebello, and N. Rajaram, *Optical Imaging of Cancer Cell Metabolism in Murine Metastatic Breast Cancer*. Clinical and Translational Biophotonics, 2016: p. JM3A. 34.
826. Alvarez-Martins, I., et al., *The impact of chronic intermittent hypoxia on hematopoiesis and the bone marrow microenvironment*. Pflugers Arch, 2016. **468**(5): p. 919-32.
827. Anderson, D.E., et al., *Responses to altered oxygen tension are distinct between human stem cells of high and low chondrogenic capacity*. Stem Cell Res Ther, 2016. **7**(1): p. 154.
828. Aranda, J.V., et al., *Pharmacologic synergism of ocular ketorolac and systemic caffeine citrate in rat oxygen-induced retinopathy*. Pediatric research, 2016. **80**(4): p. 554-565.
829. Aron, N., et al., *Pharmacological Interventions for Vascular Targeting in Retinopathy of Prematurity: An Experimental Study*. Indian J Physiol Pharmacol, 2016. **60**(3): p. 282-90.
830. Bailey, K.M., et al., *Micro-environmental stress induces src-dependent activation of invadopodia and cell migration in Ewing sarcoma*. Neoplasia, 2016. **18**(8): p. 480-488.
831. Bardon-Albaret, A. and E.A. Saillant, *Effects of hypoxia and elevated ammonia concentration on the viability of red snapper embryos and early larvae*. Aquaculture, 2016. **459**: p. 148-155.
832. Battello, N., et al., *The role of HIF-1 in oncostatin M-dependent metabolic reprogramming of hepatic cells*. Cancer & metabolism, 2016. **4**(1): p. 3.
833. Bertagnolli, M., et al., *Activation of the Cardiac Renin–Angiotensin System in High Oxygen-Exposed Newborn Rats Angiotensin Receptor Blockade Prevents the Developmental Programming of Cardiac Dysfunction*. Hypertension, 2016. **67**(4): p. 774-782.
834. Bertagnolli, M., et al., *Activation of the cardiac renin–angiotensin system in high oxygen-exposed newborn rats: angiotensin receptor blockade prevents the developmental programming of cardiac dysfunction*. Hypertension, 2016. **67**(4): p. 774-782.
835. Bhatia, M., et al., *Expression of the thioredoxin system in an in vivo-like cancer cell environment upon auranofin treatment*. European journal of cell biology, 2016. **95**(10): p. 378-388.

836. BioSpherix, *A Total Quality Approach to Cell Therapy Production with Options*. Cell and Gene Therapy World, 2016.
837. Blair, N.P., et al., *The effect of intravitreal vascular endothelial growth factor on inner retinal oxygen delivery and metabolism in rats*. *Exp Eye Res*, 2016. **143**: p. 141-7.
838. Blum, J.I., et al., *Time-dependent PPAR γ modulation of HIF-1 α signaling in hypoxic pulmonary artery smooth muscle cells*. *The American journal of the medical sciences*, 2016. **352**(1): p. 71-79.
839. Booze, M.L., J.M. Hansen, and P.F. Vitiello, *A novel mouse model for the identification of thioredoxin-1 protein interactions*. *Free Radic Biol Med*, 2016. **99**: p. 533-543.
840. Bryant, A.J., et al., *Translational Research in Acute Lung Injury and Pulmonary Fibrosis: Endothelial HIF signaling regulates pulmonary fibrosis-associated pulmonary hypertension*. *American Journal of Physiology-Lung Cellular and Molecular Physiology*, 2016. **310**(3): p. L249.
841. Bryant, A.J., et al., *Endothelial HIF signaling regulates pulmonary fibrosis-associated pulmonary hypertension*. *Am J Physiol Lung Cell Mol Physiol*, 2016. **310**(3): p. L249-62.
842. Bu, P., et al., *A Prolactin Family Paralog Regulates Placental Adaptations to a Physiological Stressor in the Mouse*. *Biology of reproduction*, 2016: p. biolreprod. 115.138032.
843. Burnier, L., et al., *Physiological cerebrovascular remodeling in response to chronic mild hypoxia: A role for activated protein C*. *Exp Neurol*, 2016. **283**(Pt A): p. 396-403.
844. Cai, B., et al., *Neuroglobin Overexpression Inhibits AMPK Signaling and Promotes Cell Anabolism*. *Mol Neurobiol*, 2016. **53**(2): p. 1254-1265.
845. Chahla, J., et al., *Intra-Articular Cellular Therapy for Osteoarthritis and Focal Cartilage Defects of the Knee: A Systematic Review of the Literature and Study Quality Analysis*. *J Bone Joint Surg Am*, 2016. **98**(18): p. 1511-21.
846. Chao, D., et al., *Attenuating Ischemic Disruption of K(+) Homeostasis in the Cortex of Hypoxic-Ischemic Neonatal Rats: DOR Activation vs. Acupuncture Treatment*. *Mol Neurobiol*, 2016. **53**(10): p. 7213-7227.
847. Chen, T., et al., *miR-17/20 Controls Prolyl Hydroxylase 2 (PHD2)/Hypoxia-Inducible Factor 1 (HIF1) to Regulate Pulmonary Artery Smooth Muscle Cell Proliferation*. *Journal of the American Heart Association*, 2016. **5**(12).
848. Chen, Y., et al., *Tyrosine kinase receptor EGFR regulates the switch in cancer cells between cell survival and cell death induced by autophagy in hypoxia*. *Autophagy*, 2016. **12**(6): p. 1029-46.
849. Cheng, Y., et al., *Induction of Connective Tissue Growth Factor Expression by Hypoxia in Human Lung Fibroblasts via the MEKK1/MEK1/ERK1/GLI-1/GLI-2 and AP-1 Pathways*. *PLoS One*, 2016. **11**(8): p. e0160593.
850. Choi, J.H., et al., *Hypoxia inducible factor-1 α regulates the migration of bone marrow mesenchymal stem cells via integrin $\alpha 4$* . *Stem cells international*, 2016. **2016**.

851. Chopra, S., V.Y. Polotsky, and J.C. Jun, *Sleep Apnea Research in Animals. Past, Present, and Future*. Am J Respir Cell Mol Biol, 2016. **54**(3): p. 299-305.
852. Chou, H.-C., Y.-T. Li, and C.-M. Chen, *Human mesenchymal stem cells attenuate experimental bronchopulmonary dysplasia induced by perinatal inflammation and hyperoxia*. American journal of translational research, 2016. **8**(2): p. 342.
853. Chua, S.K., et al., *Tumor Necrosis Factor-Alpha and the ERK Pathway Drive Chemerin Expression in Response to Hypoxia in Cultured Human Coronary Artery Endothelial Cells*. PLoS One, 2016. **11**(10): p. e0165613.
854. Cikla, U., et al., *Suppression of microglia activation after hypoxia-ischemia results in age-dependent improvements in neurologic injury*. Journal of neuroimmunology, 2016. **291**: p. 18-27.
855. Clermont, A., et al., *Plasma Kallikrein Mediates Vascular Endothelial Growth Factor-Induced Retinal Dysfunction and Thickening Role of Plasma Kallikrein in VEGF-Induced Retinal Edema*. Investigative ophthalmology & visual science, 2016. **57**(6): p. 2390-2399.
856. Cole, M.A., et al., *On the pivotal role of PPAR α in adaptation of the heart to hypoxia and why fat in the diet increases hypoxic injury*. The faseb journal, 2016. **30**(8): p. 2684-2697.
857. Collet, G., et al., *Endothelial precursor cell-based therapy to target the pathologic angiogenesis and compensate tumor hypoxia*. Cancer Lett, 2016. **370**(2): p. 345-57.
858. Cui, T.X., et al., *Hyperoxic exposure of immature mice increases the inflammatory response to subsequent rhinovirus infection: Association with danger signals*. The Journal of Immunology, 2016. **196**(11): p. 4692-4705.
859. Cunningham, K.F., et al., *Increased expression of estrogen-related receptor beta during adaptation of adult cardiomyocytes to sustained hypoxia*. Am J Cardiovasc Dis, 2016. **6**(2): p. 46-54.
860. Das, A.M., et al., *Melanomas prevent endothelial cell death under restrictive culture conditions by signaling through AKT and p38 MAPK/ERK-1/2 cascades*. Oncoimmunology, 2016. **5**(10): p. e1219826.
861. Datta, R., et al., *Label-free imaging of metabolism and oxidative stress in human induced pluripotent stem cell-derived cardiomyocytes*. Biomed Opt Express, 2016. **7**(5): p. 1690-701.
862. Davies, T.G., et al., *Monoacidic Inhibitors of the Kelch-like ECH-Associated Protein 1: Nuclear Factor Erythroid 2-Related Factor 2 (KEAP1: NRF2) Protein-Protein Interaction with High Cell Potency Identified by Fragment-Based Discovery*. Journal of medicinal chemistry, 2016. **59**(8): p. 3991-4006.
863. DeLuca, A.P., et al., *Hypomorphic mutations in TRNT1 cause retinitis pigmentosa with erythrocytic microcytosis*. Hum Mol Genet, 2016. **25**(1): p. 44-56.
864. Desai, R.A., et al., *Cause and prevention of demyelination in a model multiple sclerosis lesion*. Ann Neurol, 2016. **79**(4): p. 591-604.
865. Detweiler, N.D., et al., *BK Channels in Rat and Human Pulmonary Smooth Muscle Cells are BK-1 Functional Complexes Lacking the Oxygen-Sensitive STREX Insert*. Pulmonary Circulation, 2016.

866. Dhawan, A., et al., *Breast cancer cells compete with hematopoietic stem and progenitor cells for intercellular adhesion molecule 1-mediated binding to the bone marrow microenvironment*. Carcinogenesis, 2016. **37**(8): p. 759-767.
867. Diaz-Trelles, R., et al., *Notch-independent RBPJ controls angiogenesis in the adult heart*. Nat Commun, 2016. **7**: p. 12088.
868. Dinu, D., et al., *Mechanistic role of cytochrome P450 (CYP)1B1 in oxygen-mediated toxicity in pulmonary cells: A novel target for prevention of hyperoxic lung injury*. Biochem Biophys Res Commun, 2016. **476**(4): p. 346-351.
869. Divoky, V., et al., *Delayed hemoglobin switching and perinatal neocytolysis in mice with gain-of-function erythropoietin receptor*. J Mol Med (Berl), 2016. **94**(5): p. 597-608.
870. Dong, H., et al., *Breast Cancer MDA-MB-231 Cells Use Secreted Heat Shock Protein-90alpha (Hsp90alpha) to Survive a Hostile Hypoxic Environment*. Sci Rep, 2016. **6**: p. 20605.
871. DuBois, J.C., et al., *Yeast Transcriptome and In Vivo Hypoxia Detection Reveals Histoplasma capsulatum Response to Low Oxygen Tension*. Med Mycol, 2016. **54**(1): p. 40-58.
872. Dyugovskaya, L., et al., *Intermittent hypoxia affects the spontaneous differentiation in vitro of human neutrophils into long-lived giant phagocytes*. Oxidative medicine and cellular longevity, 2016. **2016**.
873. Emin, M., et al., *Increased internalization of complement inhibitor CD59 may contribute to endothelial inflammation in obstructive sleep apnea*. Sci Transl Med, 2016. **8**(320): p. 320ra1.
874. Ernawati, T., et al., *Hypoxic Preconditioning Improved Neuroprotective Effect of Bone Marrow-Mesenchymal Stem Cells Transplantation in Acute Glaucoma Models*. Journal of Biomedical Science and Engineering, 2016. **9**(04): p. 245.
875. Esen, N., et al., *Endogenous adaptation to low oxygen modulates T-cell regulatory pathways in EAE*. J Neuroinflammation, 2016. **13**(1): p. 13.
876. Foldager, C.B., et al., *Collagen type IV and laminin expressions during cartilage repair and in late clinically failed repair tissues from human subjects*. Cartilage, 2016. **7**(1): p. 52-61.
877. Friedman, G.K., et al., *Pediatric medulloblastoma xenografts including molecular subgroup 3 and CD133+ and CD15+ cells are sensitive to killing by oncolytic herpes simplex viruses*. Neuro Oncol, 2016. **18**(2): p. 227-35.
878. Galam, L., et al., *Deletion of P2X7 attenuates hyperoxia-induced acute lung injury via inflammasome suppression*. Am J Physiol Lung Cell Mol Physiol, 2016. **310**(6): p. L572-81.
879. Gammons, M.V. and D.O. Bates, *Models of Oxygen Induced Retinopathy in Rodents*. Methods Mol Biol, 2016. **1430**: p. 317-32.
880. Gao, X., et al., *Acetate functions as an epigenetic metabolite to promote lipid synthesis under hypoxia*. Nature communications, 2016. **7**.
881. Garvey, C.M., et al., *A high-content image-based method for quantitatively studying context-dependent cell population dynamics*. Sci Rep, 2016. **6**: p. 29752.

882. Geng, Y., et al., *Identification of crucial microRNAs and genes in hypoxia-induced human lung adenocarcinoma cells*. Onco Targets Ther, 2016. **9**: p. 4605-16.
883. Giacalone, J.C., et al., *Concise Review: Patient-Specific Stem Cells to Interrogate Inherited Eye Disease*. Stem Cells Transl Med, 2016. **5**(2): p. 132-40.
884. Gidlöf, O., et al., *Ischemic Preconditioning Confers Epigenetic Repression of Mtor and Induction of Autophagy Through G9a-Dependent H3K9 Dimethylation*. Journal of the American Heart Association, 2016. **5**(12): p. e004076.
885. Gleixner, E., et al., *Knockdown of Drosophila hemoglobin suggests a role in O₂ homeostasis*. Insect Biochem Mol Biol, 2016. **72**: p. 20-30.
886. Go, H., et al., *MiR-196a regulates heme oxygenase-1 by silencing Bach1 in the neonatal mouse lung*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2016. **311**(2): p. L400-L411.
887. Goey, A.K., et al., *Screening and Biological Effects of Marine Pyrroloiminoquinone Alkaloids: Potential Inhibitors of the HIF-1 α /p300 Interaction*. Journal of natural products, 2016.
888. Gomez Perdiguero, E., et al., *ANGPTL4– α v β 3 interaction counteracts hypoxia-induced vascular permeability by modulating Src signalling downstream of vascular endothelial growth factor receptor 2*. The Journal of pathology, 2016. **240**(4): p. 461-471.
889. Hammoud, A.A., et al., *Murine Embryonic Stem Cell Plasticity Is Regulated through Klf5 and Maintained by Metalloproteinase MMP1 and Hypoxia*. PLoS One, 2016. **11**(1): p. e0146281.
890. Han, J., et al., *Photosensitizer-Conjugated Hyaluronic Acid-Shielded Polydopamine Nanoparticles for Targeted Photo-mediated Tumor Therapy*. ACS Applied Materials & Interfaces, 2016.
891. Heikal, L., et al., *Erythropoietin and a nonerythropoietic peptide analog promote aortic endothelial cell repair under hypoxic conditions: role of nitric oxide*. Hypoxia, 2016. **4**: p. 121.
892. Helenius, I.T., et al., *Identification of Drosophila Zfh2 as a mediator of hypercapnic immune regulation by a genome-wide RNA interference screen*. The Journal of Immunology, 2016. **196**(2): p. 655-667.
893. Helenius, I.T., et al., *Focused Screening Identifies Evoxine as a Small Molecule That Counteracts CO₂-Induced Immune Suppression*. J Biomol Screen, 2016. **21**(4): p. 363-71.
894. Hoeber, D., et al., *Erythropoietin Restores Long-Term Neurocognitive Function Involving Mechanisms of Neuronal Plasticity in a Model of Hyperoxia-Induced Preterm Brain Injury*. Oxid Med Cell Longev, 2016. **2016**: p. 9247493.
895. Hofig, I., et al., *p53-Dependent Senescence in Mesenchymal Stem Cells under Chronic Normoxia Is Potentiated by Low-Dose gamma-Irradiation*. Stem Cells Int, 2016. **2016**: p. 6429853.
896. Hoppe, G., et al., *Comparative systems pharmacology of HIF stabilization in the prevention of retinopathy of prematurity*. Proc Natl Acad Sci U S A, 2016. **113**(18): p. E2516-25.

897. Horii, M., et al., *Human pluripotent stem cells as a model of trophoblast differentiation in both normal development and disease*. Proc Natl Acad Sci U S A, 2016. **113**(27): p. E3882-91.
898. Hou, J.-Y., et al., *Protective effect of hyperoside on cardiac ischemia reperfusion injury through inhibition of ER stress and activation of Nrf2 signaling*. Asian Pacific journal of tropical medicine, 2016. **9**(1): p. 76-80.
899. Houssaini, A., et al., *Selective tuberous sclerosis complex 1 gene deletion in smooth muscle activates mammalian target of rapamycin signaling and induces pulmonary hypertension*. American journal of respiratory cell and molecular biology, 2016. **55**(3): p. 352-367.
900. Howell, K.R. and A. Pillai, *Long-Term Effects of Prenatal Hypoxia on Schizophrenia-Like Phenotype in Heterozygous Reeler Mice*. Mol Neurobiol, 2016. **53**(5): p. 3267-3276.
901. Hu, J., et al., *Targeting TRAF3 signaling protects against hepatic ischemia/reperfusion injury*. J Hepatol, 2016. **64**(1): p. 146-59.
902. Hu, X., et al., *MiR-211/STAT5A Signaling Modulates Migration of Mesenchymal Stem Cells to Improve its Therapeutic Efficacy*. Stem Cells, 2016. **34**(7): p. 1846-58.
903. Hu, X., et al., *A Large-Scale Investigation of Hypoxia-Preconditioned Allogeneic Mesenchymal Stem Cells for Myocardial Repair in Non-Human Primates: Paracrine Activity Without Remuscularization*. Circulation Research, 2016: p. CIRCRESAHA. 115.307516.
904. Hua, Y., et al., *MMP-2 Is Mainly Expressed in Arterioles and Contributes to Cerebral Vascular Remodeling Associated with TGF-beta1 Signaling*. J Mol Neurosci, 2016. **59**(3): p. 317-25.
905. Hua-Huy, T., et al., *Inhaled nitric oxide decreases pulmonary endothelial nitric oxide synthase expression and activity in normal newborn rat lungs*. ERJ Open Res, 2016. **2**(1): p. 00060-2015.
906. Huetsch, J.C., et al., *The Na⁺/H⁺ exchanger contributes to increased smooth muscle proliferation and migration in a rat model of pulmonary arterial hypertension*. Physiol Rep, 2016. **4**(5): p. e12729.
907. Huynh, L., et al., *Opposing regulation of the late phase TNF response by mTORC1-IL-10 signaling and hypoxia in human macrophages*. Sci Rep, 2016. **6**: p. 31959.
908. Jameson, H., et al., *Oxytocin neuron activation prevents hypertension that occurs with chronic intermittent hypoxia/hypercapnia in rats*. American Journal of Physiology-Heart and Circulatory Physiology, 2016: p. ajpheart. 00808.2015.
909. Jiwon, S. and R.M. Jeffrey, *Economic 3D-printing approach for transplantation of human stem cell-derived β -like cells*. Biofabrication, 2016. **9**(1): p. 015002.
910. Jürgen, G., et al., *Biofabrication: reappraising the definition of an evolving field*. Biofabrication, 2016. **8**(1): p. 013001.
911. Kapitsinou, P.P., et al., *The Endothelial Prolyl-4-Hydroxylase Domain 2/Hypoxia-Inducible Factor 2 Axis Regulates Pulmonary Artery Pressure in Mice*. Mol Cell Biol, 2016. **36**(10): p. 1584-94.

912. Kessel, D. and C.L. Evans, *Promotion of proapoptotic signals by lysosomal photodamage: mechanistic aspects and influence of autophagy*. Photochemistry and photobiology, 2016. **92**(4): p. 620-623.
913. Kim, C., et al., *The alternative complement pathway aids in vascular regression during the early stages of a murine model of proliferative retinopathy*. FASEB J, 2016. **30**(3): p. 1300-5.
914. Kim, H.J. and H.Y. Yoo, *Hypoxic pulmonary vasoconstriction and vascular contractility in monocrotaline-induced pulmonary arterial hypertensive rats*. Korean J Physiol Pharmacol, 2016. **20**(6): p. 641-647.
915. Kim, Y., et al., *Methylation-dependent regulation of HIF-1 α stability restricts retinal and tumour angiogenesis*. Nat Commun, 2016. **7**: p. 10347.
916. Kimura, K. and R.C. Huang, *Tetra-O-Methyl Nordihydroguaiaretic Acid Broadly Suppresses Cancer Metabolism and Synergistically Induces Strong Anticancer Activity in Combination with Etoposide, Rapamycin and UCN-01*. PLoS One, 2016. **11**(2): p. e0148685.
917. Kobayashi, H., et al., *Distinct subpopulations of FOXD1 stroma-derived cells regulate renal erythropoietin*. J Clin Invest, 2016. **126**(5): p. 1926-38.
918. Konsavage, W., B. Edwards, and J. Shenberger, *Maintenance of Feeding-Induced Translation Initiation Complex Assembly in the Lungs of Hyperoxia-Exposed Newborn Rats*. Pediatr Neonatal Nurs Open Access, 2016. **2**(3): p. 2470-0983.114.
919. Kossatz, E., R. Maldonado, and P. Robledo, *CB2 cannabinoid receptors modulate HIF-1 α and TIM-3 expression in a hypoxia-ischemia mouse model*. European Neuropsychopharmacology, 2016. **26**(12): p. 1972-1988.
920. Kovacs, L., et al., *Activation of Calpain-2 by Mediators in Pulmonary Vascular Remodeling of Pulmonary Arterial Hypertension*. Am J Respir Cell Mol Biol, 2016. **54**(3): p. 384-93.
921. Krause, B.J., et al., *Arginase-2 is cooperatively up-regulated by nitric oxide and histone deacetylase inhibition in human umbilical artery endothelial cells*. Biochemical pharmacology, 2016. **99**: p. 53-59.
922. Ku, J.M., et al., *Characterisation of a mouse cerebral microvascular endothelial cell line (bEnd.3) after oxygen glucose deprivation and reoxygenation*. Clin Exp Pharmacol Physiol, 2016. **43**(8): p. 777-86.
923. Kudryashova, T.V., et al., *HIPPO-integrin Linked Kinase Crosstalk Controls Self-sustaining Proliferation and Survival in Pulmonary Hypertension*. American journal of respiratory and critical care medicine, 2016(ja).
924. Kumar, V., et al., *CD45 Phosphatase Inhibits STAT3 Transcription Factor Activity in Myeloid Cells and Promotes Tumor-Associated Macrophage Differentiation*. Immunity, 2016. **44**(2): p. 303-15.
925. Kvarik, T., et al., *PACAP is protective in a rat model of retinopathy of prematurity*. Journal of Molecular Neuroscience, 2016. **60**(2): p. 179-185.
926. Lai, K., et al., *Regulation of angiogenin expression and epithelial-mesenchymal transition by HIF-1 α signaling in hypoxic retinal pigment epithelial cells*. Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease, 2016.

927. Lajko, M., et al., *Hyperoxia-Induced Proliferative Retinopathy: Early Interruption of Retinal Vascular Development with Severe and Irreversible Neurovascular Disruption*. PLoS One, 2016. **11**(11): p. e0166886.
928. Leca, J., et al., *Cancer-associated fibroblast-derived annexin A6+ extracellular vesicles support pancreatic cancer aggressiveness*. J Clin Invest, 2016. **126**(11): p. 4140-4156.
929. Lee, M.Y., et al., *Intermittent hypoxia induces NF-kappaB-dependent endothelial activation via adipocyte-derived mediators*. Am J Physiol Cell Physiol, 2016. **310**(6): p. C446-55.
930. Lee, W.-H., et al., *Mouse Tmem135 mutation reveals a mechanism involving mitochondrial dynamics that leads to age-dependent retinal pathologies*. eLife, 2016. **5**: p. e19264.
931. Leithner, K., et al., *TASK-1 Regulates Apoptosis and Proliferation in a Subset of Non-Small Cell Lung Cancers*. PLoS One, 2016. **11**(6): p. e0157453.
932. Lewis, D.M., et al., *Intratumoral oxygen gradients mediate sarcoma cell invasion*. Proc Natl Acad Sci U S A, 2016. **113**(33): p. 9292-7.
933. Li, P., et al., *Effects and relationship of intermittent hypoxia on serum lipid levels, hepatic low-density lipoprotein receptor-related protein 1, and hypoxia-inducible factor 1alpha*. Sleep Breath, 2016. **20**(1): p. 167-73.
934. Li, X., et al., *KLF5 mediates vascular remodeling via HIF-1 α in hypoxic pulmonary hypertension*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2016. **310**(4): p. L299-L310.
935. Li, X., et al., *MtDNA depleted PC3 cells exhibit Warburg effect and cancer stem cell features*. Oncotarget, 2016. **7**(26): p. 40297.
936. Liu, C.H., et al., *Peroxiredoxin 1 induces inflammatory cytokine response and predicts outcome of cardiogenic shock patients necessitating extracorporeal membrane oxygenation: an observational cohort study and translational approach*. J Transl Med, 2016. **14**(1): p. 114.
937. Liu, Z., et al., *EGFRvIII/integrin β 3 interaction in hypoxic and vitronectinenriching microenvironment promote GBM progression and metastasis*. Oncotarget, 2016. **7**(4): p. 4680.
938. Logan, S., et al., *Chronic intermittent hyperoxia alters the development of the hypoxic ventilatory response in neonatal rats*. Respir Physiol Neurobiol, 2016. **220**: p. 69-80.
939. Lopez, N.C., et al., *Role of the RhoA/ROCK pathway in high-altitude associated neonatal pulmonary hypertension in lambs*. Am J Physiol Regul Integr Comp Physiol, 2016. **310**(11): p. R1053-63.
940. Luangphakdy, V., et al., *Assessment of Methods for Rapid Intraoperative Concentration and Selection of Marrow-Derived Connective Tissue Progenitors for Bone Regeneration Using the Canine Femoral Multidefect Model*. Tissue Eng Part A, 2016. **22**(1-2): p. 17-30.
941. Luo, D., J. Zhao, and J. Rong, *Plant-derived triterpene celastrol ameliorates oxygen glucose deprivation-induced disruption of endothelial barrier assembly via inducing tight junction proteins*. Phytomedicine, 2016. **23**(13): p. 1621-1628.

942. Lv, X., et al., *Structural and functional evaluation of oxygenating keratin/silk fibroin scaffold and initial assessment of their potential for urethral tissue engineering*. Biomaterials, 2016. **84**: p. 99-110.
943. Lv, X.-l., et al., *Neurotherapeutic effect of mangiferin against hypoxic–ischemic encephalopathy in neonatal rats*. African Journal of Traditional, Complementary and Alternative Medicines, 2016. **13**(2): p. 229-236.
944. Ma, X., et al., *The pancreatic cancer secreted REG4 promotes macrophage polarization to M2 through EGFR/AKT/CREB pathway*. Oncology reports, 2016. **35**(1): p. 189-196.
945. Mansor, L.S., et al., *Increased oxidative metabolism following hypoxia in the type 2 diabetic heart, despite normal hypoxia signalling and metabolic adaptation*. J Physiol, 2016. **594**(2): p. 307-20.
946. Marco, I., et al., *Degradation testing of Mg alloys in Dulbecco's modified eagle medium: Influence of medium sterilization*. Materials Science and Engineering: C, 2016.
947. Markway, B., et al., *Reoxygenation enhances tumour necrosis factor alpha-induced degradation of the extracellular matrix produced by chondrogenic cells*. Eur Cell Mater, 2016. **31**: p. 425-439.
948. McDonald, F.B., E.M. Dempsey, and K.D. O'Halloran, *Early life exposure to chronic intermittent hypoxia primes increased susceptibility to hypoxia-induced weakness in rat sternohyoid muscle during adulthood*. Frontiers in physiology, 2016. **7**: p. 69.
949. McDonald, F.B., E.M. Dempsey, and K.D. O'Halloran, *Effects of gestational and postnatal exposure to chronic intermittent hypoxia on diaphragm muscle contractile function in the rat*. Frontiers in physiology, 2016. **7**: p. 276.
950. Mei, X., et al., *The Thioredoxin Encoded by the Rod-Derived Cone Viability Factor Gene Protects Cone Photoreceptors Against Oxidative Stress*. Antioxid Redox Signal, 2016. **24**(16): p. 909-23.
951. Mezu-Ndubuisi, O.J., *In vivo angiography quantifies oxygen-induced retinopathy vascular recovery*. Optometry and Vision Science, 2016. **93**(10): p. 1268.
952. Michaloski, J.S., et al., *Discovery of pan-VEGF inhibitory peptides directed to the extracellular ligand-binding domains of the VEGF receptors*. Sci Adv, 2016. **2**(10): p. e1600611.
953. Michaloski, J.S., et al., *Discovery of pan-VEGF inhibitory peptides directed to the extracellular ligand-binding domains of the VEGF receptors*. Science advances, 2016. **2**(10): p. e1600611.
954. Milash, B., et al., *Temporal Dysynchrony in brain connectivity gene expression following hypoxia*. BMC Genomics, 2016. **17**(1): p. 334.
955. Mingming, Z., D. Sun, and H. Wang, *GW27-e0037 Notch3/Akt Signaling Contributes to OSM-Induced Protection against Cardiac Ischemia/Reperfusion Injury*. Journal of the American College of Cardiology, 2016. **68**(16): p. C2.
956. Mistry, R.K., et al., *Transcriptional regulation of cystathionine-γ-lyase in endothelial cells by NADPH oxidase 4-dependent signaling*. Journal of Biological Chemistry, 2016. **291**(4): p. 1774-1788.
957. Mizuuchi, M., et al., *Placental endoplasmic reticulum stress negatively regulates transcription of placental growth factor via ATF4 and ATF6β: implications for the*

- pathophysiology of human pregnancy complications*. The Journal of pathology, 2016. **238**(4): p. 550-561.
958. Mondal, A., et al., *IDO1 is an Integral Mediator of Inflammatory Neovascularization*. EBioMedicine, 2016.
 959. Morita, A., et al., *Exposure to high-concentration oxygen in the neonatal period induces abnormal retinal vascular patterning in mice*. Birth Defects Res B Dev Reprod Toxicol, 2016. **107**(6): p. 216-224.
 960. Mumaw, C.L., et al., *Microglial priming through the lung–brain axis: the role of air pollution–induced circulating factors*. The FASEB Journal, 2016: p. fj. 201500047.
 961. Murakami, Y., et al., *Exposure to Mild Hypoxia Associated with Oral Breathing Affects The NK Cell Ratio in The Spleen*. International Journal of Oral-Medical Sciences, 2016. **14**(4): p. 67-73.
 962. Nam, H., et al., *Synergistic inhibitory effects of hypoxia and iron deficiency on hepatic glucose response in mouse liver*. Diabetes, 2016. **65**(6): p. 1521-1533.
 963. Namba, F., et al., *Sex-related differences in long-term pulmonary outcomes of neonatal hyperoxia in mice*. Exp Lung Res, 2016. **42**(2): p. 57-65.
 964. Nguyen, D.D., G. Kim, and E.-K. Pae, *Modulation of muscle fiber compositions in response to hypoxia via pyruvate dehydrogenase kinase-1*. Frontiers in physiology, 2016. **7**: p. 604.
 965. Nuschke, A., et al., *Mesenchymal stem cells/multipotent stromal cells (MSCs) are glycolytic and thus glucose is a limiting factor of in vitro models of MSC starvation*. Stem Cell Res Ther, 2016. **7**(1): p. 179.
 966. O'Neill, C.L., et al., *Endothelial cell-derived pentraxin 3 limits the vasoreparative therapeutic potential of circulating angiogenic cells*. Cardiovascular Research, 2016. **112**(3): p. 677-688.
 967. O'Neill, C.L., et al., *Endothelial cell-derived pentraxin 3 limits the vasoreparative therapeutic potential of circulating angiogenic cells*. Cardiovascular research, 2016: p. cvw209.
 968. Orue, A., et al., *Hypoxic resistance of KRAS mutant tumor cells to 3-Bromopyruvate is counteracted by Prima-1 and reversed by N-acetylcysteine*. BMC Cancer, 2016. **16**(1): p. 902.
 969. Page, S., A. Munsell, and A.J. Al-Ahmad, *Cerebral hypoxia/ischemia selectively disrupts tight junctions complexes in stem cell-derived human brain microvascular endothelial cells*. Fluids and Barriers of the CNS, 2016. **13**(1): p. 16.
 970. Pan, Y.-Y., et al., *Altered Wnt Signaling Pathway in Cognitive Impairment Caused by Chronic Intermittent Hypoxia: Focus on Glycogen Synthase Kinase-3 β and β -catenin*. Chinese medical journal, 2016. **129**(7): p. 838.
 971. Panchanathan, R., H. Liu, and D. Choubey, *Hypoxia primes human normal prostate epithelial cells and cancer cell lines for the NLRP3 and AIM2 inflammasome activation*. Oncotarget, 2016. **7**(19): p. 28183-94.
 972. Park, E.C. and C. Rongo, *The p38 MAP kinase pathway modulates the hypoxia response and glutamate receptor trafficking in aging neurons*. Elife, 2016. **5**.

973. Park, W., B.C. Bae, and K. Na, *A highly tumor-specific light-triggerable drug carrier responds to hypoxic tumor conditions for effective tumor treatment*. Biomaterials, 2016. **77**: p. 227-34.
974. Patel, V.S., et al., *Ascorbic Acid Attenuates Hyperoxia-Compromised Host Defense against Pulmonary Bacterial Infection*. Am J Respir Cell Mol Biol, 2016. **55**(4): p. 511-520.
975. Pereboeva, L., et al., *Robust DNA damage response and elevated reactive oxygen species in TINF2-mutated dyskeratosis congenita cells*. PloS one, 2016. **11**(2).
976. Poon, A.W., et al., *Impact of bronchopulmonary dysplasia on brain and retina*. Biol Open, 2016. **5**(4): p. 475-83.
977. Przygodda, F., et al., *Acute intermittent hypoxia in rats activates muscle proteolytic pathways through a glucocorticoid-dependent mechanism*. Journal of Applied Physiology, 2016: p. jap. 00977.2015.
978. Puro, D.G., et al., *Bioelectric impact of pathological angiogenesis on vascular function*. Proc Natl Acad Sci U S A, 2016. **113**(35): p. 9934-9.
979. Racca, A.C., et al., *Low oxygen tension induces Kruppel-Like Factor 6 expression in trophoblast cells*. Placenta, 2016. **45**: p. 50-7.
980. Ravikumar, P., et al., *Nanoparticle facilitated inhalational delivery of erythropoietin receptor cDNA protects against hyperoxic lung injury*. Nanomedicine, 2016. **12**(3): p. 811-821.
981. Reinboth, B.S., et al., *Endogenous hypothermic response to hypoxia reduces brain injury: Implications for modeling hypoxic-ischemic encephalopathy and therapeutic hypothermia in neonatal mice*. Exp Neurol, 2016. **283**(Pt A): p. 264-75.
982. Reis, M., et al., *Recent Developments in Cellular Immunotherapy for HSCT-Associated Complications*. Front Immunol, 2016. **7**(500): p. 500.
983. Rumsey, W.L., et al., *Effects of airborne toxicants on pulmonary function and mitochondrial DNA damage in rodent lungs*. Mutagenesis, 2016: p. gew063.
984. Russo, M.A., et al., *Hypoxia and Inflammation in Prostate Cancer Progression. Cross-talk with Androgen and Estrogen Receptors and Cancer Stem Cells*. Endocr Metab Immune Disord Drug Targets, 2016. **16**(4): p. 235-248.
985. Sacramento, J., et al., *Insulin resistance is associated with tissue-specific regulation of HIF-1 α and HIF-2 α during mild chronic intermittent hypoxia*. Respiratory Physiology & Neurobiology, 2016. **228**: p. 30-38.
986. Schreiber-Brynzak, E., et al., *Behavior of platinum(iv) complexes in models of tumor hypoxia: cytotoxicity, compound distribution and accumulation*. Metallomics, 2016. **8**(4): p. 422-33.
987. Seedorf, G.J., et al., *Hepatocyte Growth Factor as a Downstream Mediator of Vascular Endothelial Growth Factor-Dependent Preservation of Growth in the Developing Lung*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2016: p. ajplung. 00423.2015.
988. Sengoku, T., K.M. Murray, and M.E. Wilson, *Neonatal hyperoxia induces alterations in neurotrophin gene expression*. Int J Dev Neurosci, 2016. **48**: p. 31-7.

989. Sengupta, S., et al., *The circadian gene Rev-erba improves cellular bioenergetics and provides preconditioning for protection against oxidative stress*. Free Radical Biology and Medicine, 2016. **93**: p. 177-189.
990. Serdar, M., et al., *Fingolimod protects against neonatal white matter damage and long-term cognitive deficits caused by hyperoxia*. Brain Behav Immun, 2016. **52**: p. 106-119.
991. Shafiee, A., et al., *Evaluation and comparison of the in vitro characteristics and chondrogenic capacity of four adult stem/progenitor cells for cartilage cell-based repair*. J Biomed Mater Res A, 2016. **104**(3): p. 600-610.
992. Shanshan, L. and Y. Zhu, *GW27-e0039 ZYZ-168 alleviates myocardial infarction induced cardiac fibrosis through inhibition of ERK-dependent ROCK1 activation*. Journal of the American College of Cardiology, 2016. **68**(16): p. C2.
993. Shen, Y., et al., *Effect of cytokeratin 17 on retinal pigment epithelium degeneration and choroidal neovascularization*. Int J Ophthalmol, 2016. **9**(3): p. 363-8.
994. Sherwood, J.W., et al., *Chronic Exposure to Elevated Ambient CO2 Influences the Orexinergic System in the Lateral Hypothalamus and Dorsocaudal Medulla*. The FASEB Journal, 2016. **30**(1 Supplement): p. 772.9-772.9.
995. Shi, L., et al., *miR-223-IGF-IR signaling in hypoxia-and load-induced right ventricular failure: a novel therapeutic approach*. Cardiovascular research, 2016: p. cvw065.
996. Shi, T., R.S. Papay, and D.M. Perez, *α 1A-Adrenergic receptor prevents cardiac ischemic damage through PKC δ /GLUT1/4-mediated glucose uptake*. Journal of Receptors and Signal Transduction, 2016. **36**(3): p. 261-270.
997. Siemerink, M.J., et al., *CD34 Promotes Pathological Epi-Retinal Neovascularization in a Mouse Model of Oxygen-Induced Retinopathy*. PLoS One, 2016. **11**(6): p. e0157902.
998. Singh, P., et al., *GRK5 deficiency leads to susceptibility to intermittent hypoxia-induced cognitive impairment*. Behav Brain Res, 2016. **302**: p. 29-34.
999. Singh, S., et al., *Stem Cells in Neurotoxicology/Developmental Neurotoxicology: Current Scenario and Future Prospects*. Mol Neurobiol, 2016. **53**(10): p. 6938-6949.
1000. Siwetz, M., et al., *TNF-alpha alters the inflammatory secretion profile of human first trimester placenta*. Lab Invest, 2016. **96**(4): p. 428-38.
1001. Spix, N.J., et al., *Vulnerability of Dopaminergic Amacrine Cells to Chronic Ischemia in a Mouse Model of Oxygen-Induced Retinopathy* Loss of Dopaminergic Amacrine Cells in OIR. Investigative Ophthalmology & Visual Science, 2016. **57**(7): p. 3047-3057.
1002. Srivastava, I.N., et al., *mTOR pathway inhibition prevents neuroinflammation and neuronal death in a mouse model of cerebral palsy*. Neurobiol Dis, 2016. **85**: p. 144-154.
1003. Stelter, Z., et al., *Hypoxia-induced cardiac injury in dystrophic mice*. Am J Physiol Heart Circ Physiol, 2016. **310**(7): p. H938-48.
1004. Stover, A.E., et al., *Culturing Human Pluripotent and Neural Stem Cells in an Enclosed Cell Culture System for Basic and Preclinical Research*. J Vis Exp, 2016(112).

1005. Strasser, K., et al., *Dose-dependent effects of levetiracetam after hypoxia and hypothermia in the neonatal mouse brain*. Brain Res, 2016. **1646**: p. 116-124.
1006. Sun, Y.W., et al., *CK0403, a 9-aminoacridine, is a potent anti-cancer agent in human breast cancer cells*. Molecular medicine reports, 2016. **13**(1): p. 933-938.
1007. Sunderram, J., et al., *Heme oxygenase-1-dependent central cardiorespiratory adaptations to chronic intermittent hypoxia in mice*. Journal of Applied Physiology, 2016. **121**(4): p. 944-952.
1008. Sutherland, M.R., et al., *Age- and sex-related changes in rat renal function and pathology following neonatal hyperoxia exposure*. Physiol Rep, 2016. **4**(15): p. e12887.
1009. Tafreshi, N.K., et al., *Evaluation of CAIX and CAXII expression in breast cancer at varied O₂ levels: CAIX is the superior surrogate imaging biomarker of tumor hypoxia*. Molecular imaging and biology, 2016. **18**(2): p. 219-231.
1010. Tan, F., et al., *Diametric effects of hypoxia on pathophysiology of sickle cell disease in a murine model*. Experimental Biology and Medicine, 2016. **241**(7): p. 766-771.
1011. Tang, X., et al., *CLOCK Promotes Endothelial Damage by Inducing Autophagy through Reactive Oxygen Species*. Oxidative Medicine and Cellular Longevity, 2016. **2016**.
1012. Tanimoto, N., et al., *Differentiation of murine models of "negative ERG" by single and repetitive light stimuli*. Doc Ophthalmol, 2016. **132**(2): p. 101-9.
1013. Tiwari, A., et al., *Impact of Oxygen Levels on Human Hematopoietic Stem and Progenitor Cell Expansion*. Stem Cells Dev, 2016. **25**(20): p. 1604-1613.
1014. Tuomela, J.M., et al., *Telomeric G-quadruplex-forming DNA fragments induce TLR9-mediated and LL-37-regulated invasion in breast cancer cells in vitro*. Breast Cancer Res Treat, 2016. **155**(2): p. 261-71.
1015. Uddin, M.I., et al., *In Vivo Imaging of Retinal Hypoxia in a Model of Oxygen-Induced Retinopathy*. Sci Rep, 2016. **6**: p. 31011.
1016. Ulbrich, F., et al., *Propofol, but not ketamine or midazolam, exerts neuroprotection after ischaemic injury by inhibition of Toll-like receptor 4 and nuclear factor kappa-light-chain-enhancer of activated B-cell signalling: A combined in vitro and animal study*. European Journal of Anaesthesiology (EJA), 2016. **33**(9): p. 670-680.
1017. Vasilevskaya, I.A., et al., *JNK1 inhibition attenuates hypoxia-induced autophagy and sensitizes to chemotherapy*. Molecular Cancer Research, 2016. **14**(8): p. 753-763.
1018. Vecchio, E.A., et al., *Ligand-independent adenosine A_{2B} receptor constitutive activity as a promoter of prostate cancer cell proliferation*. Journal of Pharmacology and Experimental Therapeutics, 2016: p. jpet. 115.230003.
1019. Veerappan, A., et al., *Mast cells and exosomes in hyperoxia-induced neonatal lung disease*. Am J Physiol Lung Cell Mol Physiol, 2016. **310**(11): p. L1218-32.
1020. Vera-Cruz, P., et al., *Structure of the rat tracheal mucosa after chronic intermittent hypoxia or chronic hyperbaric oxygen therapy*. Histol Histopathol, 2016. **31**(6): p. 657-62.
1021. Visovatti, S.H., et al., *Purinergic dysregulation in pulmonary hypertension*. Am J Physiol Heart Circ Physiol, 2016. **311**(1): p. H286-98.

1022. Vyas, M., et al., *Hypoxia induced HIF-1 alpha expression promotes angiogenesis, tumor budding cell survival and cell proliferation arrest in highgrade tumor budding colorectal carcinomas*. Int J Clin Exp Patho, 2016. **9**: p. 13047-13055.
1023. Wan, F., et al., *Extracellular Calpain/Calpastatin Balance is Involved in the Progression of Pulmonary Hypertension*. American journal of respiratory cell and molecular biology, 2016(ja).
1024. Wang, H., et al., *Tideglusib, a chemical inhibitor of GSK3 β , attenuates hypoxic-ischemic brain injury in neonatal mice*. Biochimica et Biophysica Acta (BBA)-General Subjects, 2016. **1860**(10): p. 2076-2085.
1025. Wang, L., et al., *Effect of Hypoxia-regulated Polo-like Kinase 3 (Plk3) on Human Limbal Stem Cell Differentiation*. J Biol Chem, 2016. **291**(32): p. 16519-29.
1026. Wang, X., et al., *Inhibitory effect of TGF-beta peptide antagonist on the fibrotic phenotype of human hypertrophic scar fibroblasts*. Pharm Biol, 2016. **54**(7): p. 1189-97.
1027. Wang, X., et al., *Carfilzomib reverses pulmonary arterial hypertension*. Cardiovasc Res, 2016. **110**(2): p. 188-99.
1028. Wang, X., et al., *Carfilzomib reverses pulmonary arterial hypertension*. Cardiovascular research, 2016. **110**(2): p. 188-199.
1029. Wang, Y., et al., *The Eyes Absent Proteins in Developmental and Pathological Angiogenesis*. Am J Pathol, 2016. **186**(3): p. 568-78.
1030. Wei, G. and S. Wen, *GW27-e0044 ADRB2 Polymorphisms and Dyslipidemia Risk in Chinese Hypertensive Patients*. Journal of the American College of Cardiology, 2016. **68**(16): p. C2.
1031. Welser-Alves, J.V., et al., *β 4 integrin is not essential for localization of hemidesmosome proteins plectin and CD151 in cerebral vessels*. Brain circulation, 2016. **2**(4): p. 189.
1032. Werner, F., et al., *Endothelial actions of atrial natriuretic peptide prevent pulmonary hypertension in mice*. Basic Res Cardiol, 2016. **111**(2): p. 22.
1033. Wiley, L.A., et al., *cGMP production of patient-specific iPSCs and photoreceptor precursor cells to treat retinal degenerative blindness*. Sci Rep, 2016. **6**: p. 30742.
1034. Wiley, L.A., et al., *Using patient-specific induced pluripotent stem cells and wild-type mice to develop a gene augmentation-based strategy to treat CLN3-associated retinal degeneration*. Human gene therapy, 2016. **27**(10): p. 835-846.
1035. Williams, J.M., et al., *Psg22-null mouse embryos develop normally under normoxic and hypoxic conditions of pregnancy*. Matters, 2016. **2**(12): p. e201611000023.
1036. Wit, J.C., et al., *A SHORT-TERM SURVIVAL EXPERIMENT ASSESSING IMPACTS OF OCEAN ACIDIFICATION AND HYPOXIA ON THE BENTHIC FORAMINIFER GLOBOBULIMINA TURGIDA*. The Journal of Foraminiferal Research, 2016. **46**(1): p. 25-33.
1037. Worthington, K.S., et al., *Differentiation of Induced Pluripotent Stem Cells to Neural Retinal Precursor Cells on Porous Poly-Lactic-co-Glycolic Acid Scaffolds*. J Ocul Pharmacol Ther, 2016. **32**(5): p. 310-6.

1038. Wu, Y., et al., *RSUME is implicated in tumorigenesis and metastasis of pancreatic neuroendocrine tumors*. Oncotarget, 2016.
1039. Xie, S., et al., *Chronic intermittent hypoxia induces cardiac hypertrophy by impairing autophagy through the adenosine 5'-monophosphate-activated protein kinase pathway*. Archives of Biochemistry and Biophysics, 2016. **606**: p. 41-52.
1040. Xu, B., et al., *Neuroprotective Effects of a PSD-95 Inhibitor in Neonatal Hypoxic-Ischemic Brain Injury*. Mol Neurobiol, 2016. **53**(9): p. 5962-5970.
1041. Xu, J.C., et al., *Cultured networks of excitatory projection neurons and inhibitory interneurons for studying human cortical neurotoxicity*. Sci Transl Med, 2016. **8**(333): p. 333ra48.
1042. Yang, C., et al., *Adropin reduces paracellular permeability of rat brain endothelial cells exposed to ischemia-like conditions*. Peptides, 2016. **81**: p. 29-37.
1043. Yang, R., et al., *Transcriptional Profiling Identifies the Signaling Axes of IGF and Transforming Growth Factor- β as Involved in the Pathogenesis of Osteosarcoma*. Clin Orthop Relat Res, 2016. **474**(1): p. 178-89.
1044. Yeh, T.-H., et al., *Selective intracellular delivery of recombinant arginine deiminase (ADI) using pH-sensitive cell penetrating peptides to overcome ADI resistance in hypoxic breast cancer cells*. Molecular pharmaceutics, 2016. **13**(1): p. 262-271.
1045. Yeng, C.H., et al., *Attenuating spinal cord injury by conditioned medium from human umbilical cord blood-derived CD34(+) cells in rats*. Taiwan J Obstet Gynecol, 2016. **55**(1): p. 85-93.
1046. Zera, K., R. Sweet, and J. Zastre, *Role of HIF-1 α in the hypoxia inducible expression of the thiamine transporter, SLC19A3*. Gene, 2016. **595**(2): p. 212-220.
1047. Zhang, L., et al., *Hypoxia Created Human Mesenchymal Stem Cell Sheet for Prevascularized 3D Tissue Construction*. Adv Healthc Mater, 2016. **5**(3): p. 342-52.
1048. Zhang, S., et al., *Stabilization of Hypoxia-inducible Factor by DMOG Inhibits Development of Chronic Hypoxia-Induced Right Ventricular Remodeling*. Journal of cardiovascular pharmacology, 2016. **67**(1): p. 68-75.
1049. Zhang, Y., et al., *Cerebral Microvascular Endothelial Cell Apoptosis after Ischemia: Role of Enolase-Phosphatase 1 Activation and Aci-Reductone Dioxygenase 1 Translocation*. Front Mol Neurosci, 2016. **9**: p. 79.
1050. Zhang, Y.Q., et al., *Delayed reendothelialization with rapamycin is rescued by the addition of nicorandil in balloon-injured rat carotid arteries*. Oncotarget, 2016. **7**(46): p. 75926-75939.
1051. Zhao, Y., et al., *Nonenzymatic detection of glucose using three-dimensional PtNi nanoclusters electrodeposited on the multiwalled carbon nanotubes*. Sensors and Actuators B: Chemical, 2016. **231**: p. 800-810.
1052. Zhu, L., et al., *Mitochondrial transplantation attenuates hypoxic pulmonary hypertension*. Oncotarget, 2016. **7**(31): p. 48925.
1053. Zimmer, A.D., et al., *Phosphorylation of the pyruvate dehydrogenase complex precedes HIF-1-mediated effects and pyruvate dehydrogenase kinase 1*

- upregulation during the first hours of hypoxic treatment in hepatocellular carcinoma cells. Hypoxia*, 2016. **4**: p. 135.
1054. Zungu-Edmondson, M., et al., *Modulators of right ventricular apoptosis and contractility in a rat model of pulmonary hypertension. Cardiovasc Res*, 2016. **110**(1): p. 30-9.
 1055. Zynda, E.R., et al., *An RNA interference screen identifies new avenues for nephroprotection. Cell Death Differ*, 2016. **23**(4): p. 608-15.
 1056. Abdalla, M., et al., *Akt inhibitor, triciribine, ameliorates chronic hypoxia-induced vascular pruning and TGF β -induced pulmonary fibrosis. British Journal of Pharmacology*, 2015.
 1057. Abdelsaid, M., et al., *Metformin treatment in the period after stroke prevents nitrate stress and restores angiogenic signaling in the brain in diabetes. Diabetes*, 2015. **64**(5): p. 1804-17.
 1058. Abdul, K.S.M., et al., *Mild hypoxia in vivo regulates cardioprotective SUR2A: A role for Akt and LDH. Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease*, 2015.
 1059. Accorsi-Mendonça, D., et al., *Enhanced Firing in NTS Induced by Short-Term Sustained Hypoxia Is Modulated by Glia-Neuron Interaction. The Journal of Neuroscience*, 2015. **35**(17): p. 6903-6917.
 1060. Agrawal, V., et al., *Potential role of increased oxygenation in altering perinatal adrenal steroidogenesis. Pediatr Res*, 2015. **77**(2): p. 298-309.
 1061. Ahlfeld, S.K., et al., *Relationship of structural to functional impairment during alveolar-capillary membrane development. Am J Pathol*, 2015. **185**(4): p. 913-9.
 1062. Ahn, K.C., et al., *Inhibition of p53 attenuates ischemic stress-induced activation of astrocytes. Neuroreport*, 2015. **26**(14): p. 862-9.
 1063. Ahn, S.H., et al., *Interaction of peroxiredoxin V with dihydrolipoamide branched chain transacylase E2 (DBT) in mouse kidney under hypoxia. Proteome Sci*, 2015. **13**(1): p. 4.
 1064. Aras, S., et al., *MNRR1 (formerly CHCHD2) is a bi-organellar regulator of mitochondrial metabolism. Mitochondrion*, 2015. **20**: p. 43-51.
 1065. Arlier, Z., et al., *Hypertension alters phosphorylation of VASP in brain endothelial cells. Int J Neurosci*, 2015. **125**(4): p. 288-97.
 1066. Baek, K.S., et al., *Immunotoxicological Effects of Aripiprazole: In vivo and In vitro Studies. Korean J Physiol Pharmacol*, 2015. **19**(4): p. 365-72.
 1067. Baik, S.W., et al., *Effects of Remifentanyl Preconditioning on Osteoblasts under Hypoxia-Reoxygenation Condition. Int J Med Sci*, 2015. **12**(7): p. 583-9.
 1068. Bailey, C.K., et al., *Efficacy of the HSP70 inhibitor PET-16 in multiple myeloma. Cancer Biol Ther*, 2015. **16**(9): p. 1422-6.
 1069. Bao, M.W., et al., *Dickkopf-3 protects against cardiac dysfunction and ventricular remodelling following myocardial infarction. Basic Res Cardiol*, 2015. **110**(3): p. 25.
 1070. Basu, J., et al., *Preclinical biosafety evaluation of cell-based therapies: emerging global paradigms. Toxicol Pathol*, 2015. **43**(1): p. 115-25.
 1071. Belcastro, R., et al., *Chronic lung injury in the neonatal rat: Up-regulation of TGF β 1 and nitration of IGF-R1 by peroxynitrite as likely contributors to impaired alveologenesis. Free Radical Biology and Medicine*, 2015. **80**: p. 1-11.

1072. Berghold, V.M., et al., *Phospholipid scramblase 1 (PLSCR1) in villous trophoblast of the human placenta*. Histochem Cell Biol, 2015. **143**(4): p. 381-96.
1073. Bertero, T., et al., *The microRNA-130/301 family controls vasoconstriction in pulmonary hypertension*. J Biol Chem, 2015. **290**(4): p. 2069-85.
1074. Bertero, T., et al., *Matrix Remodeling Promotes Pulmonary Hypertension through Feedback Mechanoactivation of the YAP/TAZ-miR-130/301 Circuit*. Cell reports, 2015. **13**(5): p. 1016-1032.
1075. Bettaga, N., et al., *Cell-specific impact of nitric oxide-dependent guanylyl cyclase on arteriogenesis and angiogenesis in mice*. Angiogenesis, 2015. **18**(3): p. 245-54.
1076. Bhatti, F., et al., *Pulmonary Surfactant Protein A Is Expressed in Mouse Retina by Müller Cells and Impacts Neovascularization in Oxygen-Induced Retinopathy*. Investigative ophthalmology & visual science, 2015. **56**(1): p. 232-242.
1077. Biesterveld, B.E., et al., *Intestinal alkaline phosphatase to treat necrotizing enterocolitis*. J Surg Res, 2015. **196**(2): p. 235-40.
1078. Binder, U., et al., *Effect of reduced oxygen on the antifungal susceptibility of clinically relevant aspergilli*. Antimicrob Agents Chemother, 2015. **59**(3): p. 1806-10.
1079. Blaschitz, A., et al., *Adhering maternal platelets can contribute to the cytokine and chemokine cocktail released by human first trimester villous placenta*. Placenta, 2015. **36**(11): p. 1333-1336.
1080. Boroujerdi, A. and R. Milner, *Defining the critical hypoxic threshold that promotes vascular remodeling in the brain*. Experimental neurology, 2015. **263**: p. 132-140.
1081. Boroujerdi, A., J.V. Welser-Alves, and R. Milner, *Matrix metalloproteinase-9 mediates post-hypoxic vascular pruning of cerebral blood vessels by degrading laminin and claudin-5*. Angiogenesis, 2015. **18**(3): p. 255-64.
1082. Brand, F.J., 3rd, et al., *RIG-I contributes to the innate immune response after cerebral ischemia*. J Inflamm (Lond), 2015. **12**(1): p. 52.
1083. Cai, L., et al., *Weight loss: indication of brain damage and effect of combined normobaric oxygen and ethanol therapy after stroke*. Neurol Res, 2015. **37**(5): p. 441-6.
1084. Carreras, A., et al., *Resveratrol attenuates intermittent hypoxia-induced macrophage migration to visceral white adipose tissue and insulin resistance in male mice*. Endocrinology, 2015. **156**(2): p. 437-43.
1085. Casalino-Matsuda, S.M., et al., *Hypercapnia Inhibits Autophagy and Bacterial Killing in Human Macrophages by Increasing Expression of Bcl-2 and Bcl-xL*. J Immunol, 2015. **194**(11): p. 5388-96.
1086. Charrin, E., et al., *Oxidative stress is decreased in physically active sickle cell SAD mice*. British journal of haematology, 2015. **168**(5): p. 747-756.
1087. Chen, T., et al., *Loss of miR-17~ 92 in Smooth Muscle Cells Attenuates Experimental Pulmonary Hypertension via Induction of PDLIM5*. American journal of respiratory and critical care medicine, 2015(ja).
1088. Chen, W., et al., *TRPM7 inhibitor carvacrol protects brain from neonatal hypoxic-ischemic injury*. Mol Brain, 2015. **8**(1): p. 11.

1089. Chen, W.L., et al., *Cycling hypoxia induces chemoresistance through the activation of reactive oxygen species-mediated B-cell lymphoma extra-long pathway in glioblastoma multiforme*. J Transl Med, 2015. **13**(1): p. 389.
1090. Chen, Y.C., et al., *Co-upregulation of Toll-like receptors 2 and 6 on peripheral blood cells in patients with obstructive sleep apnea*. Sleep Breath, 2015. **19**(3): p. 873-82.
1091. Cherif, M., et al., *Gab1 Is Modulated by Chronic Hypoxia in Children with Cyanotic Congenital Heart Defect and Its Overexpression Reduces Apoptosis in Rat Neonatal Cardiomyocytes*. BioMed Research International, 2015. **2015**.
1092. Chichger, H., et al., *PKC δ and β II Regulate Angiotensin II Mediated Fibrosis through p38: A Mechanism of RV Fibrosis in Pulmonary Hypertension*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2015: p. ajplung.00184.2014.
1093. Chiu, C.Z., B.W. Wang, and K.G. Shyu, *Molecular regulation of the expression of leptin by hypoxia in human coronary artery smooth muscle cells*. J Biomed Sci, 2015. **22**(1): p. 5.
1094. Choi, J.H., et al., *Hypoxia Inducible Factor-1 α Regulates the Migration of Bone Marrow Mesenchymal Stem Cells via Integrin α 4*. Stem Cells International, 2015.
1095. Choi, J.H., et al., *Microenvironmental Interaction Between Hypoxia and Endothelial Cells Controls the Migration Ability of Placenta-Derived Mesenchymal Stem Cells via α 4 Integrin and Rho Signaling*. Journal of cellular biochemistry, 2015.
1096. Chow, A.K., et al., *A preclinical study on the combination therapy of everolimus and transarterial chemoembolization in hepatocellular carcinoma*. Am J Cancer Res, 2015. **5**(8): p. 2376-86.
1097. Chu, A., et al., *Cardiovascular dysfunction in adult mice following postnatal intermittent hypoxia*. Pediatr Res, 2015. **77**(3): p. 425-33.
1098. Cikla, U., et al., *Suppression of microglia activation after hypoxia–ischemia results in age-dependent improvements in neurologic injury*. Journal of Neuroimmunology, 2015.
1099. Cox, J., Ruan, et al., *Aspirin-Triggered Resolvin D1 Treatment Enhances Resolution of Hyperoxic Acute Lung Injury*. American journal of respiratory cell and molecular biology, 2015(ja).
1100. Cunningham, K.F., et al., *Estrogen-Related Receptor α (ERR α) Is Required for Adaptive Increases in PGC-1 Isoform Expression During Electrically Stimulated Contraction of Adult Cardiomyocytes in Sustained Hypoxic Conditions*. International Journal of Cardiology, 2015.
1101. Dada, L.A., et al., *High CO₂ Leads to Na,K-ATPase Endocytosis via c-Jun Amino-Terminal Kinase-Induced LMO7b Phosphorylation*. Mol Cell Biol, 2015. **35**(23): p. 3962-73.
1102. Das, K.C., *Thioredoxin-deficient mice, a novel phenotype sensitive to ambient air and hypersensitive to hyperoxia-induced lung injury*. Am J Physiol Lung Cell Mol Physiol, 2015. **308**(5): p. L429-42.

1103. Datta, A., et al., *Mouse lung development and NOX1 induction during hyperoxia are developmentally regulated and mitochondrial ROS dependent*. Am J Physiol Lung Cell Mol Physiol, 2015. **309**(4): p. L369-77.
1104. de Raaf, M.A., et al., *Serotonin transporter is not required for the development of severe pulmonary hypertension in the Sugen hypoxia rat model*. Am J Physiol Lung Cell Mol Physiol, 2015. **309**(10): p. L1164-73.
1105. Deng, Y., et al., *P2X7 Receptor Antagonism Attenuates the Intermittent Hypoxia-induced Spatial Deficits in a Murine Model of Sleep Apnea Via Inhibiting Neuroinflammation and Oxidative Stress*. Chin Med J (Engl), 2015. **128**(16): p. 2168-75.
1106. Deng, Y., et al., *Efficacy of atorvastatin on hippocampal neuronal damage caused by chronic intermittent hypoxia: Involving TLR4 and its downstream signaling pathway*. Respir Physiol Neurobiol, 2015. **218**: p. 57-63.
1107. Dergacheva, O., *Chronic intermittent hypoxia alters neurotransmission from lateral paragigantocellular nucleus to parasympathetic cardiac neurons in the brain stem*. J Neurophysiol, 2015. **113**(1): p. 380-9.
1108. Diogo, L.N., et al., *Efficacy of carvedilol in reversing hypertension induced by chronic intermittent hypoxia in rats*. Eur J Pharmacol, 2015. **765**: p. 58-67.
1109. Do, J.Y., et al., *Retinal hypoxia induces vascular endothelial growth factor through induction of estrogen-related receptor γ* . Biochemical and biophysical research communications, 2015. **460**(2): p. 457-463.
1110. Dokun, A.O., et al., *ADAM12: a genetic modifier of preclinical peripheral arterial disease*. Am J Physiol Heart Circ Physiol, 2015. **309**(5): p. H790-803.
1111. Domigan, C.K., et al., *Autocrine VEGF maintains endothelial survival through regulation of metabolism and autophagy*. Journal of cell science, 2015: p. jcs. 163774.
1112. Dominguez, E., et al., *Experimental Branch Retinal Vein Occlusion Induces Upstream Pericyte Loss and Vascular Destabilization*. PLoS One, 2015. **10**(7): p. e0132644.
1113. Ducheux, P., et al., *Interleukin-6 enhances the activity of in vivo long-term reconstituting hematopoietic stem cells in "hypoxic-like" expansion cultures ex vivo*. Transfusion, 2015. **55**(11): p. 2684-91.
1114. Dyugovskaya, L., et al., *Intermittent Hypoxia Affects the Spontaneous Differentiation In Vitro of Human Neutrophils into Long-Lived Giant Phagocytes*. Oxidative medicine and cellular longevity, 2015. **2016**.
1115. Edgar, K.S., et al., *Hyperoxia depletes (6R)-5,6,7,8-tetrahydrobiopterin levels in the neonatal retina: implications for nitric oxide synthase function in retinopathy*. Am J Pathol, 2015. **185**(6): p. 1769-82.
1116. El Refaey, M., et al., *Oxidation of the aromatic amino acids tryptophan and tyrosine disrupts their anabolic effects on bone marrow mesenchymal stem cells*. Molecular and cellular endocrinology, 2015.
1117. Fan, L., et al., *Transplantation of hypoxia preconditioned bone marrow mesenchymal stem cells enhances angiogenesis and osteogenesis in rabbit femoral head osteonecrosis*. Bone, 2015. **81**: p. 544-553.

1118. Fan, Z., et al., *YM155, a selective survivin inhibitor, reverses chronic hypoxic pulmonary hypertension in rats via upregulating voltage-gated potassium channels*. Clin Exp Hypertens, 2015. **37**(5): p. 381-7.
1119. Fang, L., A.J. Barber, and J.S. Shenberger, *Regulation of Fibroblast Growth Factor 2 Expression in Oxygen-Induced Retinopathy*. Investigative ophthalmology & visual science, 2015. **56**(1): p. 207-215.
1120. Fei, F., et al., *Upregulation of Homer1a Promoted Retinal Ganglion Cell Survival After Retinal Ischemia and Reperfusion via Interacting with Erk Pathway*. Cell Mol Neurobiol, 2015. **35**(7): p. 1039-48.
1121. Fei, P., et al., *Thrombospondin-2 Expression During Retinal Vascular Development and Neovascularization*. J Ocul Pharmacol Ther, 2015. **31**(7): p. 429-44.
1122. Fischer, C., et al., *Panobinostat reduces hypoxia-induced cisplatin resistance of non-small cell lung carcinoma cells via HIF-1alpha destabilization*. Mol Cancer, 2015. **14**(1): p. 4.
1123. Foldager, C.B., et al., *Collagen Type IV and Laminin Expressions during Cartilage Repair and in Late Clinically Failed Repair Tissues from Human Subjects*. Cartilage, 2015: p. 1947603515604022.
1124. Fröhlich, J.D., et al., *Oxygen and glucose dependent viability of HLA-G positive and negative trophoblasts using ACH-3P cells as first trimester trophoblast-derived cell model*. Journal of Reproductive Health and Medicine, 2015. **1**(1): p. 4-9.
1125. Fu, Z., et al., *Deficiency of aldose reductase attenuates inner retinal neuronal changes in a mouse model of retinopathy of prematurity*. Graefes Arch Clin Exp Ophthalmol, 2015. **253**(9): p. 1503-13.
1126. Galam, L., et al., *4-hydroxynonenal regulates mitochondrial function in human small airway epithelial cells*. Oncotarget, 2015. **6**(39): p. 41508-21.
1127. Galam, L., et al., *Adenovirus-mediated transfer of the SOCS-1 gene to mouse lung confers protection against hyperoxic acute lung injury*. Free Radic Biol Med, 2015. **84**: p. 196-205.
1128. Geng, X., et al., *Ethanol and normobaric oxygen: novel approach in modulating pyruvate dehydrogenase complex after severe transient and permanent ischemic stroke*. Stroke, 2015. **46**(2): p. 492-9.
1129. Geng, X., et al., *Reduced cerebral monocarboxylate transporters and lactate levels by ethanol and normobaric oxygen therapy in severe transient and permanent ischemic stroke*. Brain Res, 2015. **1603**: p. 65-75.
1130. Gerace, E., et al., *Interplay between histone acetylation/deacetylation and poly (ADP-ribosyl) ation in the development of ischemic tolerance in vitro*. Neuropharmacology, 2015.
1131. Gold, B., T. Warrier, and C. Nathan, *A multi-stress model for high throughput screening against non-replicating Mycobacterium tuberculosis*. Methods Mol Biol, 2015. **1285**: p. 293-315.
1132. Gopal, P., et al., *Effect of chronic hypoxia on RAGE and its soluble forms in lungs and plasma of mice*. Biochim Biophys Acta, 2015. **1852**(5): p. 992-1000.

1133. Goss, K.N., et al., *Neonatal hyperoxic lung injury favorably alters adult right ventricular remodeling response to chronic hypoxia exposure*. Am J Physiol Lung Cell Mol Physiol, 2015. **308**(8): p. L797-806.
1134. Green, D.E., et al., *PPAR γ Ligands Attenuate Hypoxia-Induced Proliferation in Human Pulmonary Artery Smooth Muscle Cells through Modulation of MicroRNA-21*. PLoS one, 2015. **10**(7): p. e0133391.
1135. Guo, X., et al., *Alterations in left ventricular function during intermittent hypoxia: Possible involvement of O-GlcNAc protein and MAPK signaling*. Int J Mol Med, 2015. **36**(1): p. 150-8.
1136. Gupta, A., et al., *SOD2 Activity Is not Impacted by Hyperoxia in Murine Neonatal Pulmonary Artery Smooth Muscle Cells and Mice*. International journal of molecular sciences, 2015. **16**(3): p. 6373-6390.
1137. Haga, C.L., et al., *Small Molecule Inhibition of miR-544 Biogenesis Disrupts Adaptive Responses to Hypoxia by Modulating ATM-mTOR Signaling*. ACS Chem Biol, 2015. **10**(10): p. 2267-76.
1138. Hamalainen, R.H., et al., *mtDNA Mutagenesis Disrupts Pluripotent Stem Cell Function by Altering Redox Signaling*. Cell Rep, 2015. **11**(10): p. 1614-24.
1139. Hao, K., et al., *Inactivation of corticotropin-releasing hormone-induced insulinotropic role by high-altitude hypoxia*. Diabetes, 2015. **64**(3): p. 785-95.
1140. Hartman, W., et al., *Role of Hypoxia-Induced Brain Derived Neurotrophic Factor in Human Pulmonary Artery Smooth Muscle*. PLoS One, 2015. **10**(7): p. e0129489.
1141. He, J., et al., *Hypoxic adipose mesenchymal stem cells derived conditioned medium protects myocardial infarct in rat*. Eur Rev Med Pharmacol Sci, 2015. **19**(22): p. 4397-406.
1142. Helenius, I.T., et al., *Identification of Drosophila Zfh2 as a Mediator of Hypercapnic Immune Regulation by a Genome-Wide RNA Interference Screen*. The Journal of Immunology, 2015: p. 1501708.
1143. Henn, A.D., S. Darou, and R. Yerden, 471. *Cell Incubation Outside of a Barrier Isolator Using an Improved Conditioned Transport Chamber Expands Scale-Out Capacity for Massively Parallel Patient-Specific Batch Production*. Molecular Therapy, 2015. **23**: p. S187.
1144. Hoffmann, E.K., et al., *Role of volume-regulated and calcium-activated anion channels in cell volume homeostasis, cancer and drug resistance*. Channels (Austin), 2015. **9**(6): p. 380-96.
1145. Hopper, N., et al., *Peripheral blood derived mononuclear cells enhance the migration and chondrogenic differentiation of multipotent mesenchymal stromal cells*. Stem Cells Int, 2015. **2015**: p. 323454.
1146. Hou, J.-Y., et al., *Protective effect of hyperoside on cardiac ischemia reperfusion injury through inhibition of ER stress and activation of Nrf2 signaling*. Asian Pacific Journal of Tropical Medicine, 2015.
1147. Hu, X., et al., *Safety and efficacy of intracoronary hypoxia-preconditioned bone marrow mononuclear cell administration for acute myocardial infarction patients: The CHINA-AMI randomized controlled trial*. Int J Cardiol, 2015. **184**: p. 446-51.
1148. Huan, J., et al., *Coordinate regulation of residual bone marrow function by paracrine trafficking of AML exosomes*. Leukemia, 2015. **29**(12): p. 2285-95.

1149. Iizuka, N., et al., *Retinal region-dependent susceptibility of capillaries to high-concentration oxygen exposure and vascular endothelial growth factor receptor inhibition in neonatal mice*. J Pharmacol Sci, 2015. **129**(2): p. 107-18.
1150. Jaitovich, A., et al., *High CO₂ levels cause skeletal muscle atrophy via AMP-activated kinase (AMPK), FoxO3a protein, and muscle-specific Ring finger protein 1 (MuRF1)*. J Biol Chem, 2015. **290**(14): p. 9183-94.
1151. Jang, K.J., et al., *Mitochondrial function provides instructive signals for activation-induced B-cell fates*. Nat Commun, 2015. **6**: p. 6750.
1152. Kaiser, A.D., et al., *Towards a commercial process for the manufacture of genetically modified T cells for therapy*. Cancer Gene Ther, 2015. **22**(2): p. 72-8.
1153. Kang, B.-Y., et al., *PPAR γ Activation Reduces Hypoxia-induced Endothelin-1 Expression through Upregulation of miR-98*. American journal of respiratory cell and molecular biology, 2015(ja).
1154. Kim, B.H., et al., *Imidazole-based alkaloid derivative LCB54-0009 suppresses ocular angiogenesis and lymphangiogenesis in models of experimental retinopathy and corneal neovascularization*. Br J Pharmacol, 2015. **172**(15): p. 3875-89.
1155. Kim, B.S., et al., *Cyclin-dependent kinase five mediates activation of lung xanthine oxidoreductase in response to hypoxia*. PLoS One, 2015. **10**(4): p. e0124189.
1156. Kim, I. and J. Carroll, *Effect of Chronic Hypoxia on the Carotid Body Glomus Cell Mitochondrial Response to Acute Hypoxia*. The FASEB Journal, 2015. **29**(1 Supplement): p. LB691.
1157. Kim, K.K., et al., *Tetrathiomolybdate inhibits mitochondrial complex IV and mediates degradation of hypoxia-inducible factor-1 α in cancer cells*. Scientific reports, 2015. **5**.
1158. Koh, H.S., et al., *The HIF-1/glia1 TIM-3 axis controls inflammation-associated brain damage under hypoxia*. Nat Commun, 2015. **6**: p. 6340.
1159. Kolb, T.M., et al., *Right ventricular angiogenesis is an early adaptive response to chronic hypoxia-induced pulmonary hypertension*. Microcirculation, 2015.
1160. Krause, B.J., et al., *Arginase-2 is cooperatively up-regulated by nitric oxide and histone deacetylase inhibition in human umbilical artery endothelial cells*. Biochemical pharmacology, 2015.
1161. Kurlak, L.O., et al., *Human placental renin-angiotensin system in normotensive and pre-eclamptic pregnancies at high altitude and after acute hypoxia-reoxygenation insult*. The Journal of physiology, 2015.
1162. Lages, Y.M., et al., *Low oxygen alters mitochondrial function and response to oxidative stress in human neural progenitor cells*. PeerJ, 2015. **3**: p. e1486.
1163. Laval, M., et al., *Increased gastrin gene expression provides a physiological advantage to mice under hypoxic conditions*. Am J Physiol Gastrointest Liver Physiol, 2015. **308**(2): p. G76-84.
1164. Le Moan, N., et al., *Hypoxia Inducible Factor-1 α in Astrocytes and/or Myeloid Cells Is Not Required for the Development of Autoimmune Demyelinating Disease*. eneuro, 2015. **2**(2): p. ENEURO. 0050-14.2015.

1165. Lee, H.S. and D.G. Lee, *rIL-10 enhances IL-10 signalling proteins in foetal alveolar type II cells exposed to hyperoxia*. J Cell Mol Med, 2015. **19**(7): p. 1538-47.
1166. Lewis, P., et al., *Redox Remodelling is Pivotal in Murine Diaphragm Muscle Adaptation to Chronic Sustained Hypoxia*. American Journal of Respiratory Cell and Molecular Biology, 2015(ja).
1167. Lewis, P., et al., *Chronic sustained hypoxia-induced redox remodeling causes contractile dysfunction in mouse sternohyoid muscle*. Front Physiol, 2015. **6**: p. 122.
1168. Li, K.C., et al., *Preclinical Safety Evaluation of ASCs Engineered by FLPo/Frt-Based Hybrid Baculovirus: In Vitro and Large Animal Studies*. Tissue Eng Part A, 2015. **21**(9-10): p. 1471-82.
1169. Li, L., et al., *Regulatory role of CARD3 in left ventricular remodelling and dysfunction after myocardial infarction*. Basic Res Cardiol, 2015. **110**(6): p. 56.
1170. Li, M., et al., *Protection of Diltiazem on Vascular Endothelial Cells against Angiotensin II and Hypoxia*. Clinical and Experimental Pharmacology and Physiology, 2015.
1171. Li, T., et al., *Influence of Nano-HA Coated Bone Collagen to Acrylic (Polymethylmethacrylate) Bone Cement on Mechanical Properties and Bioactivity*. PLoS One, 2015. **10**(6): p. e0129018.
1172. Liao, J., et al., *The NLRP3 inflammasome is critically involved in the development of bronchopulmonary dysplasia*. Nature communications, 2015. **6**.
1173. Lim, J., et al., *Functionalized Biomaterials-Oxygen Releasing Scaffolds*. J Biotechnol Biomater, 2015. **5**(182): p. 2.
1174. Liu, B., et al., *Augmented Wnt-Signaling as a Therapeutic Tool to Prevent Ischemia and Reperfusion Injury in Liver: Preclinical Studies in a Mouse Model*. Liver Transplantation, 2015.
1175. Liu, F.J., et al., *MiR-335 regulates Hif-1 α to reduce cell death in both mouse cell line and rat ischemic models*. PloS one, 2015. **10**(6): p. e0128432.
1176. Liu, T., et al., *Hypoxia-induced MTA1 promotes MC3T3 osteoblast growth but suppresses MC3T3 osteoblast differentiation*. Eur J Med Res, 2015. **20**(1): p. 10.
1177. Liu, X., et al., *Vinexin-beta exacerbates cardiac dysfunction post-myocardial infarction via mediating apoptotic and inflammatory responses*. Clin Sci (Lond), 2015. **128**(12): p. 923-36.
1178. Liu, Y., et al., *Hyperoxia-induced immature brain injury through the TLR4 signaling pathway in newborn mice*. Brain research, 2015. **1610**: p. 51-60.
1179. Llorente, I.L., et al., *Glutamate receptor and transporter modifications in rat organotypic hippocampal slice cultures exposed to oxygen-glucose deprivation: the contribution of cyclooxygenase-2*. Neuroscience, 2015. **292**: p. 118-28.
1180. Lottes, R.G., et al., *Lactate as substrate for mitochondrial respiration in alveolar epithelial type II cells*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2015. **308**(9): p. L953-L961.
1181. Lu, C., et al., *Attenuation of cardiac dysfunction and remodeling of myocardial infarction by microRNA-130a are mediated by suppression of PTEN and*

- activation of PI3K dependent signaling. J Mol Cell Cardiol*, 2015. **89**(Pt A): p. 87-97.
1182. Lu, J., et al., *Cell orientation gradients on an inverse opal substrate. ACS Appl Mater Interfaces*, 2015. **7**(19): p. 10091-5.
 1183. Lu, Q., et al., *Autophagy in neonatal hypoxia ischemic brain is associated with oxidative stress. Redox Biology*, 2015.
 1184. Lu, Q., et al., *Nitric oxide induces hypoxia ischemic injury in the neonatal brain via the disruption of neuronal iron metabolism. Redox Biol*, 2015. **6**: p. 112-121.
 1185. Luangphakdy, V., et al., *Evaluation of rhBMP-2/collagen/TCP-HA bone graft with and without bone marrow cells in the canine femoral multi defect model. Eur Cell Mater*, 2015. **29**: p. 57-68; discussion 68-9.
 1186. Madsen, J.S., et al., *Facultative control of matrix production optimizes competitive fitness in Pseudomonas aeruginosa PA14 biofilm models. Appl Environ Microbiol*, 2015. **81**(24): p. 8414-26.
 1187. Manchenkov, T., et al., *Novel Genes Critical for Hypoxic Preconditioning in Zebrafish Are Regulators of Insulin and Glucose Metabolism. G3 (Bethesda)*, 2015. **5**(6): p. 1107-16.
 1188. Marathe, C.S., et al., *Islet cell transplantation in Australia: screening, remote transplantation, and incretin hormone secretion in insulin independent patients. Horm Metab Res*, 2015. **47**(1): p. 16-23.
 1189. Markway, B.D., et al., *Hypoxia-inducible factor 3-alpha expression is associated with the stable chondrocyte phenotype. Journal of Orthopaedic Research*, 2015.
 1190. Maurer, E., et al., *Susceptibility profiles of amphotericin B and posaconazole against clinically relevant mucorales species under hypoxic conditions. Antimicrob Agents Chemother*, 2015. **59**(2): p. 1344-6.
 1191. McDonald, F.B., et al., *Early life exposure to chronic intermittent hypoxia causes upper airway dilator muscle weakness which persists into young adulthood. Experimental physiology*, 2015.
 1192. Mistry, R.K., et al., *Transcriptional Regulation of Cystathionine-γ-lyase in Endothelial cells by NADPH oxidase 4-dependent Signaling. Journal of Biological Chemistry*, 2015: p. jbc. M115. 685578.
 1193. Miyazaki, T., et al., *Calpastatin counteracts pathological angiogenesis by inhibiting suppressor of cytokine signaling 3 degradation in vascular endothelial cells. Circ Res*, 2015. **116**(7): p. 1170-81.
 1194. Mizuuchi, M., et al., *Placental endoplasmic reticulum stress negatively regulates transcription of placental growth factor via ATF4 and ATF6β: implications for the pathophysiology of human pregnancy complications. The Journal of Pathology*, 2015.
 1195. Mou, J., et al., *Ultrasml Cu₂-x S Nanodots for Highly Efficient Photoacoustic Imaging-Guided Photothermal Therapy. Small*, 2015. **11**(19): p. 2275-83.
 1196. Mouraret, N., et al., *Role for telomerase in pulmonary hypertension. Circulation*, 2015. **131**(8): p. 742-755.
 1197. Niu, J., et al., *Association between endothelin-1/endothelin receptor A and inflammation in mouse kidneys following acute ischemia/reperfusion. Molecular medicine reports*, 2015. **11**(5): p. 3981-3987.

1198. Nowak, G. and D. Bakajsova, *Protein kinase C- α interaction with F₀F₁-ATPase promotes F₀F₁-ATPase activity and reduces energy deficits in injured renal cells*. J Biol Chem, 2015. **290**(11): p. 7054-66.
1199. Oku, H., et al., *Nitric Oxide Increases the Expression of Aquaporin-4 Protein in Rat Optic Nerve Astrocytes through the Cyclic Guanosine Monophosphate/Protein Kinase G Pathway*. Ophthalmic research, 2015. **54**(4): p. 212-221.
1200. Orłowska, J., et al., *The use of biodegradable polymers in design of cellular scaffolds*. Postepy Hig Med Dosw (online), 2015. **69**: p. 294-301.
1201. Pålman, L.I., et al., *Hypoxia down-regulates expression of secretory leukocyte protease inhibitor in bronchial epithelial cells via TGF- β 1*. BMC pulmonary medicine, 2015. **15**(1): p. 19.
1202. Parmar, J. and N.M. Jones, *Hypoxic preconditioning can reduce injury-induced inflammatory processes in the neonatal rat brain*. International Journal of Developmental Neuroscience, 2015.
1203. Peiris, H.N., et al., *Expression of Myostatin in Intrauterine Growth Restriction and Preeclampsia Complicated Pregnancies and Alterations to Cytokine Production by First-Trimester Placental Explants Following Myostatin Treatment*. Reprod Sci, 2015. **22**(10): p. 1202-11.
1204. Perche, F., et al., *Hypoxia-Responsive Copolymer for siRNA Delivery*. RNA Imaging: Methods and Protocols, 2015: p. 139-162.
1205. Perez-Sepulveda, A., et al., *Placental Aromatase Is Deficient in Placental Ischemia and Preeclampsia*. PloS one, 2015. **10**(10): p. e0139682.
1206. Perim, R.R., L.G. Bonagamba, and B.H. Machado, *Cardiovascular and respiratory outcome of preconditioned rats submitted to chronic intermittent hypoxia*. Exp Physiol, 2015. **100**(9): p. 1008-17.
1207. Pflieger, J., M. He, and M. Abdellatif, *Mitochondrial complex II is a source of the reserve respiratory capacity that is regulated by metabolic sensors and promotes cell survival*. Cell death & disease, 2015. **6**(7): p. e1835.
1208. Pham, H., et al., *Impact of inhaled nitric oxide on white matter damage in growth-restricted neonatal rats*. Pediatr Res, 2015. **77**(4): p. 563-9.
1209. Phan Duy, A., et al., *Nitric Oxide Pathway and Proliferation of Neural Progenitors in the Neonatal Rat*. Dev Neurosci, 2015. **37**(4-5): p. 417-27.
1210. Phinney, D.G., et al., *Mesenchymal stem cells use extracellular vesicles to outsource mitophagy and shuttle microRNAs*. Nat Commun, 2015. **6**: p. 8472.
1211. Pittenger, M.F., et al., *MSCs: Scientific Support for Multiple Therapies*. Stem Cells Int, 2015. **2015**: p. 280572.
1212. Poniewierska-Baran, A., et al., *Human rhabdomyosarcoma cells express functional erythropoietin receptor: Potential therapeutic implications*. Int J Oncol, 2015. **47**(5): p. 1989-97.
1213. Prows, D.R., et al., *Age and Sex of Mice Markedly Affect Survival Times Associated with Hyperoxic Acute Lung Injury*. PLoS One, 2015. **10**(6): p. e0130936.
1214. Rafikova, O., et al., *The sexual dimorphism associated with pulmonary hypertension corresponds to a fibrotic phenotype*. Pulm Circ, 2015. **5**(1): p. 184-97.

1215. Rama, N., et al., *Slit2 signaling through Robo1 and Robo2 is required for retinal neovascularization*. Nature medicine, 2015.
1216. Rao, X., et al., *O-GlcNAcylation of G6PD promotes the pentose phosphate pathway and tumor growth*. Nat Commun, 2015. **6**: p. 8468.
1217. Reddy, N.M., et al., *PI3K-AKT Signaling via Nrf2 Protects against Hyperoxia-Induced Acute Lung Injury, but Promotes Inflammation Post-Injury Independent of Nrf2 in Mice*. PLoS One, 2015. **10**(6): p. e0129676.
1218. Rice, G.E., et al., *The Effect of Glucose on the Release and Bioactivity of Exosomes From First Trimester Trophoblast Cells*. J Clin Endocrinol Metab, 2015. **100**(10): p. E1280-8.
1219. Rivera, J.C., et al., *BIBF1120 (Vargatef) Inhibits Preretinal Neovascularization and Enhances Normal Vascularization in a Model of Vasoproliferative Retinopathy*. Investigative Ophthalmology & Visual Science, 2015. **56**(13): p. 7897-7907.
1220. Romacho, T., et al., *Nutritional ingredients modulate adipokine secretion and inflammation in human primary adipocytes*. Nutrients, 2015. **7**(2): p. 865-86.
1221. Ryland, K.E., et al., *Polycomb-dependent repression of the potassium channel-encoding gene KCNA5 promotes cancer cell survival under conditions of stress*. Oncogene, 2015. **34**(35): p. 4591-600.
1222. Sallon, C., et al., *Automated High-Performance Analysis of Lung Morphometry*. Am J Respir Cell Mol Biol, 2015. **53**(2): p. 149-58.
1223. Sart, S., et al., *Intracellular labeling of mouse embryonic stem cell-derived neural progenitor aggregates with micron-sized particles of iron oxide*. Cytotherapy, 2015. **17**(1): p. 98-111.
1224. Schallner, N., et al., *Microglia regulate blood clearance in subarachnoid hemorrhage by heme oxygenase-1*. J Clin Invest, 2015. **125**(7): p. 2609-25.
1225. Scharf, A., et al., *Superparamagnetic iron oxide nanoparticles as a means to track mesenchymal stem cells in a large animal model of tendon injury*. Contrast Media Mol Imaging, 2015. **10**(5): p. 388-97.
1226. Scheuer, T., et al., *Oligodendroglial maldevelopment in the cerebellum after postnatal hyperoxia and its prevention by minocycline*. Glia, 2015. **63**(10): p. 1825-39.
1227. Schiavo, A.A., et al., *Endothelial properties of third-trimester amniotic fluid stem cells cultured in hypoxia*. Stem Cell Res Ther, 2015. **6**(1): p. 209.
1228. Schlaepfer, I.R., et al., *Hypoxia induces triglycerides accumulation in prostate cancer cells and extracellular vesicles supporting growth and invasiveness following reoxygenation*. Oncotarget, 2015. **6**(26): p. 22836-56.
1229. Schlosser, K., et al., *Discordant regulation of microRNA between multiple experimental models and human pulmonary hypertension*. CHEST Journal, 2015.
1230. Schrobback, K., T.J. Klein, and T.B. Woodfield, *The importance of connexin hemichannels during chondroprogenitor cell differentiation in hydrogel versus microtissue culture models*. Tissue Eng Part A, 2015. **21**(11-12): p. 1785-94.
1231. Shanab, A.Y., et al., *Candesartan stimulates reparative angiogenesis in ischemic retinopathy model: role of hemeoxygenase-1 (HO-1)*. Angiogenesis, 2015. **18**(2): p. 137-50.

1232. Shapiro, J.P., et al., *Mass spectrometry identification of potential mediators of progesterin-only contraceptive-induced abnormal uterine bleeding in human endometrial stromal cells*. *Contraception*, 2015. **91**(3): p. 253-60.
1233. Sharma, S., et al., *APOBEC3A cytidine deaminase induces RNA editing in monocytes and macrophages*. *Nat Commun*, 2015. **6**: p. 6881.
1234. Sheikh, A.Q., et al., *Smooth muscle cell progenitors are primed to muscularize in pulmonary hypertension*. *Sci Transl Med*, 2015. **7**(308): p. 308ra159.
1235. Shen, X., et al., *Altered viral replication and cell responses by inserting microRNA recognition element into PB1 in pandemic influenza A virus (H1N1) 2009*. *Mediators Inflamm*, 2015. **2015**: p. 976575.
1236. Sherwood, J., C. Landon, and J. Dean, *Chronic CO₂ retention stimulates gastric acid secretion and induces gastric mucosal hyperplasia in rats*. *The FASEB Journal*, 2015. **29**(1 Supplement): p. 849.8.
1237. Shi, T., R.S. Papay, and D.M. Perez, *α 1A-Adrenergic receptor prevents cardiac ischemic damage through PKC δ /GLUT1/4-mediated glucose uptake*. *Journal of Receptors and Signal Transduction*, 2015: p. 1-10.
1238. Shi, Y., et al., *Temporal and spatial changes in VEGF, α A-and α B-crystallin expression in a mouse model of oxygen-induced retinopathy*. *Int J Clin Exp Med*, 2015. **8**(3): p. 3349-3359.
1239. Shimi, T., et al., *Structural Organization of Nuclear Lamins A, C, B1 and B2 Revealed by Super-Resolution Microscopy*. *Molecular biology of the cell*, 2015: p. mbc. E15-07-0461.
1240. Shin, D.H., et al., *Regulation of MMP-1 expression in response to hypoxia is dependent on the intracellular redox status of metastatic bladder cancer cells*. *Biochimica et Biophysica Acta (BBA)-Molecular Basis of Disease*, 2015. **1852**(12): p. 2593-2602.
1241. Sidaly, R., et al., *Hypoxia increases the expression of enamel genes and cytokines in an ameloblast-derived cell line*. *Eur J Oral Sci*, 2015. **123**(5): p. 335-340.
1242. Sifringer, M., et al., *Neuroprotective effect of dexmedetomidine on hyperoxia-induced toxicity in the neonatal rat brain*. *Oxid Med Cell Longev*, 2015. **2015**: p. 530371.
1243. Sitaras, N., et al., *Retinal neurons curb inflammation and enhance revascularization in ischemic retinopathies via proteinase-activated receptor-2*. *Am J Pathol*, 2015. **185**(2): p. 581-95.
1244. Siwetz, M., et al., *Placental Fractalkine Is Up-Regulated in Severe Early-Onset Preeclampsia*. *The American journal of pathology*, 2015.
1245. Slot, I.G., et al., *Alterations in Skeletal Muscle Oxidative Phenotype in Mice Exposed to Three Weeks of Normobaric Hypoxia*. *Journal of Cellular Physiology*, 2015.
1246. Smith, K.A., et al., *Notch Activation of Ca²⁺ Signaling Mediates Hypoxic Pulmonary Vasoconstriction and Pulmonary Hypertension*. *American journal of respiratory cell and molecular biology*, 2015(ja).
1247. Soetikno, B.T., et al., *Inner retinal oxygen metabolism in the 50/10 oxygen-induced retinopathy model*. *Sci Rep*, 2015. **5**: p. 16752.

1248. Soliman, S., et al., *Sequential Therapy with Minocycline and Candesartan Improves Long-Term Recovery After Experimental Stroke*. Transl Stroke Res, 2015. **6**(4): p. 309-22.
1249. Song, J., et al., *HIF-mediated increased ROS from reduced mitophagy and decreased catalase causes neocytolysis*. J Mol Med (Berl), 2015. **93**(8): p. 857-66.
1250. Souza, G.M., et al., *Cardiovascular and respiratory responses to chronic intermittent hypoxia in adult female rats*. Exp Physiol, 2015. **100**(3): p. 249-58.
1251. Staal, J.A., et al., *Proteomic profiling of high risk medulloblastoma reveals functional biology*. Oncotarget, 2015. **6**(16): p. 14584-95.
1252. Suleiman, M.S., et al., *Cardioprotection during Adult and Pediatric Open Heart Surgery*. Biomed Res Int, 2015. **2015**: p. 712721.
1253. Sullivan, K.E., L.J. Burns, and L.D. Black, *An in vitro model for the assessment of stem cell fate following implantation within the infarct microenvironment identifies ISL-1 expression as the strongest predictor of c-Kit⁺ cardiac progenitor cells' therapeutic potential*. Journal of molecular and cellular cardiology, 2015. **88**: p. 91-100.
1254. Sun, H.S., et al., *Neuronal K(ATP) channels mediate hypoxic preconditioning and reduce subsequent neonatal hypoxic-ischemic brain injury*. Exp Neurol, 2015. **263**: p. 161-71.
1255. Sun, J., et al., *Intranasal delivery of hypoxia-preconditioned bone marrow-derived mesenchymal stem cells enhanced regenerative effects after intracerebral hemorrhagic stroke in mice*. Exp Neurol, 2015. **272**: p. 78-87.
1256. Sun, P., et al., *Mindin deficiency protects the liver against ischemia/reperfusion injury*. J Hepatol, 2015. **63**(5): p. 1198-211.
1257. Sun, Y., et al., *The biosafety of lanthanide upconversion nanomaterials*. Chem Soc Rev, 2015. **44**(6): p. 1509-25.
1258. Ta, N.L. and T.N. Seyfried, *Influence of Serum and Hypoxia on Incorporation of [14C]-d-Glucose or [14C]-l-Glutamine into Lipids and Lactate in Murine Glioblastoma Cells*. Lipids, 2015. **50**(12): p. 1167-1184.
1259. Tafreshi, N.K., et al., *Evaluation of CAIX and CAXII Expression in Breast Cancer at Varied O₂ Levels: CAIX is the Superior Surrogate Imaging Biomarker of Tumor Hypoxia*. Molecular Imaging and Biology, 2015: p. 1-13.
1260. Tang, X., et al., *hCLOCK causes Rho-kinase-mediated endothelial dysfunction and NF- κ B-mediated inflammatory responses*. oxidative Medicine and Cellular Longevity, 2015.
1261. Teo, J.D., M.J. Morris, and N.M. Jones, *Hypoxic postconditioning reduces microglial activation, astrocyte and caspase activity, and inflammatory markers after hypoxia-ischemia in the neonatal rat brain*. Pediatr Res, 2015. **77**(6): p. 757-64.
1262. Thurmond, P., et al., *Structural modifications of the prostate in hypoxia, oxidative stress, and chronic ischemia*. Korean J Urol, 2015. **56**(3): p. 187-96.
1263. Tibboel, J., et al., *Hypoxia-Inducible Factor-1 Stimulates Postnatal Lung Development but Does Not Prevent O₂-Induced Alveolar Injury*. American journal of respiratory cell and molecular biology, 2015. **52**(4): p. 448-458.

1264. Tojo, Y., et al., *Hypoxia Signaling Cascade for Erythropoietin Production in Hepatocytes*. Mol Cell Biol, 2015. **35**(15): p. 2658-72.
1265. Townsend, D., *Diastolic dysfunction precedes hypoxia-induced mortality in dystrophic mice*. Physiol Rep, 2015. **3**(8): p. e12513.
1266. Tsai, A.C., et al., *Compaction, fusion, and functional activation of three-dimensional human mesenchymal stem cell aggregate*. Tissue Eng Part A, 2015. **21**(9-10): p. 1705-19.
1267. Tsai, C.-H., et al., *NcoA2-dependent inhibition of HIF-1 α activation is regulated via AhR*. Toxicological Sciences, 2015: p. kfv199.
1268. Tsai, M.J., et al., *Acidic FGF promotes neurite outgrowth of cortical neurons and improves neuroprotective effect in a cerebral ischemic rat model*. Neuroscience, 2015. **305**: p. 238-47.
1269. Tse, A.C., et al., *Hypoxia induces miR-210, leading to anti-apoptosis in ovarian follicular cells of marine medaka *Oryzias melastigma**. Aquat Toxicol, 2015. **165**: p. 189-96.
1270. Tu, C., et al., *Proteomic profiling of the retinas in a neonatal rat model of oxygen-induced retinopathy with a reproducible ion-current-based MS1 approach*. J Proteome Res, 2015. **14**(5): p. 2109-2120.
1271. Tucker, B., et al., *Using patient specific iPSCs to interrogate the pathogenicity of a novel RPE65 cryptic splice site mutation and confirm eligibility for enrollment into a clinical gene augmentation trial*. Translational research: the journal of laboratory and clinical medicine, 2015. **166**(6): p. 740.
1272. Uddin, M.I., et al., *Applications of azo-based probes for imaging retinal hypoxia*. ACS Med Chem Lett, 2015. **6**(4): p. 445-9.
1273. Vasilevskaya, I.A., et al., *Inhibition of JNK Sensitizes Hypoxic Colon Cancer Cells to DNA-Damaging Agents*. Clin Cancer Res, 2015. **21**(18): p. 4143-52.
1274. Verduzco, D., et al., *Intermittent hypoxia selects for genotypes and phenotypes that increase survival, invasion, and therapy resistance*. PloS one, 2015. **10**(3).
1275. Vogel, J., et al., *Nox4 supports proper capillary growth in exercise and retina neo-vascularization*. J Physiol, 2015. **593**(9): p. 2145-54.
1276. Wan, N., et al., *Toll-interacting protein contributes to mortality following myocardial infarction through promoting inflammation and apoptosis*. British journal of pharmacology, 2015.
1277. Wang, C.-Y., et al., *PKC-dependent GAP43 phosphorylation regulates gephyrin aggregation at developing GABAergic synapses*. Molecular and Cellular Biology, 2015: p. MCB. 01332-14.
1278. Wang, J., et al., *Recommendation for modifying current cytotoxicity testing standards for biodegradable magnesium-based materials*. Acta Biomater, 2015. **21**: p. 237-49.
1279. Wang, X., et al., *Hypoxia precondition promotes adipose-derived mesenchymal stem cells based repair of diabetic erectile dysfunction via augmenting angiogenesis and neuroprotection*. PLoS One, 2015. **10**(3): p. e0118951.
1280. Webb, T.E., et al., *An internal ribosome entry site in the 5' untranslated region of epidermal growth factor receptor allows hypoxic expression*. Oncogenesis, 2015. **4**(1): p. e134.

1281. Wenger, R.H., et al., *Frequently asked questions in hypoxia research*. Hypoxia (Auckl), 2015. **3**: p. 35-43.
1282. Whitmore, S.S., et al., *Complement activation and choriocapillaris loss in early AMD: implications for pathophysiology and therapy*. Prog Retin Eye Res, 2015. **45**: p. 1-29.
1283. Wiley, L.A., et al., *Stem cells as tools for studying the genetics of inherited retinal degenerations*. Cold Spring Harbor perspectives in medicine, 2015. **5**(5): p. a017160.
1284. Wiley, L.A., et al., *Patient-specific induced pluripotent stem cells (iPSCs) for the study and treatment of retinal degenerative diseases*. Prog Retin Eye Res, 2015. **44**: p. 15-35.
1285. Wilkinson, L.J., et al., *Renal developmental defects resulting from in utero hypoxia are associated with suppression of ureteric beta-catenin signaling*. Kidney Int, 2015. **87**(5): p. 975-83.
1286. Williams, R., et al., *Chronic intermittent hypoxia increases rat sternohyoid muscle NADPH oxidase expression with attendant modest oxidative stress*. Front Physiol, 2015. **6**: p. 15.
1287. Witthaus, M.W., et al., *Bladder oxidative stress in sleep apnea contributes to detrusor instability and nocturia*. J Urol, 2015. **193**(5): p. 1692-9.
1288. Won, S., J.K. Lee, and D.G. Stein, *Recombinant tissue plasminogen activator promotes, and progesterone attenuates, microglia/macrophage M1 polarization and recruitment of microglia after MCAO stroke in rats*. Brain Behav Immun, 2015. **49**: p. 267-79.
1289. Won, S., et al., *Vitamin D prevents hypoxia/reoxygenation-induced blood-brain barrier disruption via vitamin D receptor-mediated NF-kB signaling pathways*. PLoS One, 2015. **10**(3): p. e0122821.
1290. Wong, L.L., et al., *Natriuretic peptide receptor 3 (NPR3) is regulated by microRNA-100*. Journal of molecular and cellular cardiology, 2015. **82**: p. 13-21.
1291. Woods, I.G. and F.B. Imam, *Transcriptome analysis of severe hypoxic stress during development in zebrafish*. Genom Data, 2015. **6**: p. 83-8.
1292. Xie, S., et al., *Melatonin protects against chronic intermittent hypoxia-induced cardiac hypertrophy by modulating autophagy through the 5' adenosine monophosphate-activated protein kinase pathway*. Biochemical and Biophysical Research Communications, 2015.
1293. Xing, L., et al., *A Serotonin Circuit Acts as an Environmental Sensor to Mediate Midline Axon Crossing through EphrinB2*. The Journal of Neuroscience, 2015. **35**(44): p. 14794-14808.
1294. Xu, J., et al., *NOTCH reprograms mitochondrial metabolism for proinflammatory macrophage activation*. J Clin Invest, 2015. **125**(4): p. 1579-90.
1295. Yamaguchi, J., et al., *Inflammation and hypoxia linked to renal injury by CCAAT/enhancer-binding protein delta*. Kidney Int, 2015. **88**(2): p. 262-75.
1296. Yan, L., et al., *Single and Compound Knock-outs of MicroRNA (miRNA)-155 and Its Angiogenic Gene Target Ccn1 in Mice Alter Vascular and Neovascular Growth in the Retina via Resident Microglia*. J Biol Chem, 2015. **290**(38): p. 23264-81.

1297. Yang, F., Y. Bai, and Y. Jiang, *Effects of Apelin on RAW264. 7 cells under both normal and hypoxic conditions*. Peptides, 2015. **69**: p. 133-143.
1298. Yang, Q., et al., *IGF-1 signaling in neonatal hypoxia-induced pulmonary hypertension: Role of epigenetic regulation*. Vascul Pharmacol, 2015. **73**: p. 20-31.
1299. Yang, W.J., et al., *Semaphorin-3C signals through Neuropilin-1 and PlexinD1 receptors to inhibit pathological angiogenesis*. EMBO molecular medicine, 2015: p. e201404922.
1300. Yao, J., et al., *Enhanced differentiation and delivery of mouse retinal progenitor cells using a micropatterned biodegradable thin-film polycaprolactone scaffold*. Tissue Engineering Part A, 2015. **21**(7-8): p. 1247-1260.
1301. Yeh, T.-H., et al., *Selective intracellular delivery of recombinant arginine deiminase (ADI) using pH-sensitive cell penetrating peptides to overcome ADI resistance in hypoxic breast cancer cells*. Molecular pharmaceutics, 2015.
1302. Yen, T.-L., et al., *Andrographolide stimulates p38 MAPK-Nrf2-HO-1 signaling in primary cerebral endothelial cells for definite protection against ischemic stroke in rats*. Translational Research, 2015.
1303. Yilmaz, C., et al., *Alveolar-capillary adaptation to chronic hypoxia in the fatty lung*. Acta Physiol (Oxf), 2015. **213**(4): p. 933-46.
1304. Yong, K.W., et al., *Cryopreservation of Human Mesenchymal Stem Cells for Clinical Applications: Current Methods and Challenges*. Biopreserv Biobank, 2015. **13**(4): p. 231-9.
1305. Yuan, X., et al., *Chronic intermittent hypoxia-induced neuronal apoptosis in the hippocampus is attenuated by telmisartan through suppression of iNOS/NO and inhibition of lipid peroxidation and inflammatory responses*. Brain research, 2015. **1596**: p. 48-57.
1306. Yuan, X., et al., *Telmisartan attenuates myocardial apoptosis induced by chronic intermittent hypoxia in rats: modulation of nitric oxide metabolism and inflammatory mediators*. Sleep Breath, 2015. **19**(2): p. 703-9.
1307. Zaitoun, I.S., et al., *Endothelium Expression of Bcl-2 Is Essential for Normal and Pathological Ocular Vascularization*. PloS one, 2015. **10**(10): p. e0139994.
1308. Zeng, Y., et al., *Hypoxia inducible factor-1 mediates expression of miR-322: potential role in proliferation and migration of pulmonary arterial smooth muscle cells*. Sci Rep, 2015. **5**: p. 12098.
1309. Zhang, H., et al., *TIPE2 acts as a negative regulator linking NOD2 and inflammatory responses in myocardial ischemia/reperfusion injury*. Journal of Molecular Medicine, 2015: p. 1-11.
1310. Zhang, L., et al., *The role of placenta growth factor in the hyperoxia-induced acute lung injury in an animal model*. Cell Biochem Funct, 2015. **33**(1): p. 44-9.
1311. Zhang, L., et al., *Autophagy regulates hyperoxia-induced intracellular accumulation of surfactant protein C in alveolar type II cells*. Mol Cell Biochem, 2015. **408**(1-2): p. 181-9.
1312. Zhang, M., et al., *Notch3/Akt signaling contributes to OSM-induced protection against cardiac ischemia/reperfusion injury*. Apoptosis, 2015. **20**(9): p. 1150-63.

1313. Zhao, Y., et al., *Three-dimensional Pt x Ni 1– x nanoclusters supported on multiwalled carbon nanotubes in enzyme-free glucose biofuel cells*. Journal of Power Sources, 2015. **296**: p. 30-39.
1314. Zheleznyak, A., et al., *Preclinical Positron Emission Tomographic Imaging of Acute Hyperoxia Therapy of Chronic Hypoxia during Pregnancy*. Mol Imaging, 2015. **14**: p. 366-72.
1315. Zhen, Y.Q., et al., *2,3-Oxidosqualene cyclase protects liver cells from the injury of intermittent hypoxia by regulating lipid metabolism*. Sleep Breath, 2015. **19**(4): p. 1475-81.
1316. Zhu, H., et al., *Microencapsulated Pig Islet Xenotransplantation as an Alternative Treatment of Diabetes*. Tissue Eng Part B Rev, 2015. **21**(5): p. 474-89.
1317. Abdelsaid, M., et al., *Metformin Treatment in Post-stroke Period Prevents Nitrate Stress and Restores Angiogenic Signaling in the Brain in Diabetes*. Diabetes, 2014: p. DB_141423.
1318. Abdelsaid, M.A., et al., *Deletion of thioredoxin interacting protein (TXNIP) augments hyperoxia-induced vaso-obliteration in a mouse model of oxygen induced-retinopathy*. PLoS One, 2014. **9**(10): p. e110388.
1319. Abdul, K.S.M., et al., *Upregulation of cardioprotective SUR2A by sub-hypoxic drop in oxygen*. Biochimica et Biophysica Acta (BBA)-Molecular Cell Research, 2014.
1320. Ahmad, A., et al., *Benefits of pre-, pro- and Syn-biotics for lung angiogenesis in malnourished rats exposed to intermittent hypoxia*. Am J Transl Res, 2014. **6**(5): p. 459-70.
1321. Almado, C.E.L., R.M. Leão, and B.H. Machado, *Intrinsic properties of rostral ventrolateral medulla presympathetic and bulbospinal respiratory neurons of juvenile rats are not affected by chronic intermittent hypoxia*. Experimental physiology, 2014. **99**(7): p. 937-950.
1322. Alphonse, R.S., et al., *Existence, functional impairment, and lung repair potential of endothelial colony-forming cells in oxygen-induced arrested alveolar growth*. Circulation, 2014. **129**(21): p. 2144-57.
1323. Al-Qahtani, J.M., B.A. Abdel-Wahab, and S.M. Abd El-Aziz, *Long-term moderate dose exogenous erythropoietin treatment protects from intermittent hypoxia-induced spatial learning deficits and hippocampal oxidative stress in young rats*. Neurochem Res, 2014. **39**(1): p. 161-71.
1324. Amsellem, V., et al., *CCR5 as a Treatment Target in Pulmonary Arterial Hypertension*. Circulation, 2014. **130**(11): p. 880-891.
1325. Anne, H.-H.T., et al., *SIRT3 interactions with FOXO3 acetylation, phosphorylation and ubiquitinylation mediate endothelial cell responses to hypoxia*. Biochemical Journal, 2014. **464**(1): p. 157-168.
1326. Anyanwu, A.C., et al., *Suppression of inflammatory cell trafficking and alveolar simplification by the heme oxygenase-1 product carbon monoxide*. Am J Physiol Lung Cell Mol Physiol, 2014. **306**(8): p. L749-63.
1327. Baddoura, P., et al., *Right Ventricular Angiogenesis Is An Early Adaptive Response To Chronic Hypoxia-Induced Pulmonary Hypertension*. Am J Respir Crit Care Med, 2014. **189**: p. A2351.

1328. Baranov, P.Y., B.A. Tucker, and M.J. Young, *Low-oxygen culture conditions extend the multipotent properties of human retinal progenitor cells*. Tissue Eng Part A, 2014. **20**(9-10): p. 1465-75.
1329. Barbosa, M., et al., *Integral-geometry characterization of photobiomodulation effects on retinal vessel morphology*. Biomed Opt Express, 2014. **5**(7): p. 2317-32.
1330. Bauer, E.M., et al., *Recombinant human interferon alpha 2b prevents and reverses experimental pulmonary hypertension*. PLoS One, 2014. **9**(5): p. e96720.
1331. Bertagnolli, M., et al., *Transient Neonatal High Oxygen Exposure Leads to Early Adult Cardiac Dysfunction, Remodeling, and Activation of the Renin–Angiotensin System*. Hypertension, 2014. **63**(1): p. 143-150.
1332. Blank, T. and W. Burggren, *Hypoxia-induced developmental plasticity of the gills and air-breathing organ of Trichopodus trichopterus*. J Fish Biol, 2014. **84**(3): p. 808-26.
1333. Brodowski, L., et al., *Vitamin D prevents endothelial progenitor cell dysfunction induced by sera from women with preeclampsia or conditioned media from hypoxic placenta*. PLoS One, 2014. **9**(6): p. e98527.
1334. Buck, L.D., et al., *Co-regulation of primary mouse hepatocyte viability and function by oxygen and matrix*. Biotechnol Bioeng, 2014. **111**(5): p. 1018-27.
1335. Burnight, E.R., et al., *CEP290 gene transfer rescues Leber congenital amaurosis cellular phenotype*. Gene Ther, 2014. **21**(7): p. 662-72.
1336. Campen, M.J., et al., *Muscle RING finger-1 promotes a maladaptive phenotype in chronic hypoxia-induced right ventricular remodeling*. PLoS One, 2014. **9**(5): p. e97084.
1337. Capozzi, M.E., G.W. McCollum, and J.S. Penn, *The role of cytochrome P450 epoxygenases in retinal angiogenesis*. Invest Ophthalmol Vis Sci, 2014. **55**(7): p. 4253-60.
1338. Chavez-Perez, V.A., M. Strasberg-Rieber, and M. Rieber, *Hypoxia and hypoxia mimetic cooperate to counteract tumor cell resistance to glucose starvation preferentially in tumor cells with mutant p53*. Biochem Biophys Res Commun, 2014. **443**(1): p. 120-5.
1339. Chen, L., et al., *Conditioned medium from hypoxic bone marrow-derived mesenchymal stem cells enhances wound healing in mice*. PLoS One, 2014. **9**(4): p. e96161.
1340. Chen, P., et al., *Hypoxia preconditioned mesenchymal stem cells prevent cardiac fibroblast activation and collagen production via leptin*. PLoS One, 2014. **9**(8): p. e103587.
1341. Chen, W., et al., *CYP2J2 and EETs Protect against Oxidative Stress and Apoptosis in Vivo and in Vitro Following Lung Ischemia/Reperfusion*. Cell Physiol Biochem, 2014. **33**(6): p. 1663-80.
1342. Chen, Y., et al., *Highly effective inhibition of lung cancer growth and metastasis by systemic delivery of siRNA via multimodal mesoporous silica-based nanocarrier*. Biomaterials, 2014. **35**(38): p. 10058-69.

1343. Chiu, C.Z., B.W. Wang, and K.G. Shyu, *Angiotensin II and the JNK pathway mediate urotensin II expression in response to hypoxia in rat cardiomyocytes*. J Endocrinol, 2014. **220**(3): p. 233-46.
1344. Choi, B.H., et al., *Highly purified mussel adhesive protein to secure biosafety for in vivo applications*. Microb Cell Fact, 2014. **13**(1): p. 52.
1345. Collet, G., et al., *Hypoxia-regulated overexpression of soluble VEGFR2 controls angiogenesis and inhibits tumor growth*. Mol Cancer Ther, 2014. **13**(1): p. 165-78.
1346. Cullberg, K.B., et al., *Inhibitory effects of resveratrol on hypoxia-induced inflammation in 3T3-L1 adipocytes and macrophages*. Journal of Functional Foods, 2014. **7**: p. 171-179.
1347. Dai, T., et al., *Dextran-based fluorescent nanoprobe for sentinel lymph node mapping*. Biomaterials, 2014. **35**(28): p. 8227-35.
1348. Darashchonak, N., et al., *Adenosine A2B receptors induce proliferation, invasion and activation of cAMP response element binding protein (CREB) in trophoblast cells*. BMC Pregnancy Childbirth, 2014. **14**(1): p. 2.
1349. Darashchonak, N., et al., *Activation of adenosine A 2B receptor impairs properties of trophoblast cells and involves mitogen-activated protein (MAP) kinase signaling*. Placenta, 2014. **35**(9): p. 763-771.
1350. Davies, J., et al., *Adenosine promotes vascular barrier function in hyperoxic lung injury*. Physiol Rep, 2014. **2**(9): p. e12155.
1351. de Raaf, M.A., et al., *SuHx rat model: partly reversible pulmonary hypertension and progressive intima obstruction*. Eur Respir J, 2014. **44**(1): p. 160-8.
1352. Decembrini, S., et al., *Derivation of traceable and transplantable photoreceptors from mouse embryonic stem cells*. Stem Cell Reports, 2014. **2**(6): p. 853-65.
1353. Dergacheva, O., et al., *Chronic intermittent hypoxia and hypercapnia inhibit the hypothalamic paraventricular nucleus neurotransmission to parasympathetic cardiac neurons in the brain stem*. Hypertension, 2014. **64**(3): p. 597-603.
1354. Deschepper, M., J. Paquet, and H. Petite, *NUTRIENT AND O2 TENSION ARE CRUCIAL REGULATORS OF HUMAN MESENCHYMAL STEM CELLS (HMSCS) PARACRINE POTENTIALITIES*. Bone & Joint Journal Orthopaedic Proceedings Supplement, 2014. **96**(SUPP 11): p. 117-117.
1355. Dier, U., et al., *Bioenergetic analysis of ovarian cancer cell lines: profiling of histological subtypes and identification of a mitochondria-defective cell line*. PLoS One, 2014. **9**(5): p. e98479.
1356. Ding, W.X., et al., *Adiponectin protects rat heart from left ventricular remodeling induced by chronic intermittent hypoxia via inhibition of TGF-beta/smad2/3 pathway*. J Thorac Dis, 2014. **6**(9): p. 1278-84.
1357. Dong, J., et al., *Preparation, characterization, and in vitro cytotoxicity evaluation of a novel anti-tuberculosis reconstruction implant*. PLoS One, 2014. **9**(4): p. e94937.
1358. dos Santos, P.R., et al., *Modified in vivo lung perfusion allows for prolonged perfusion without acute lung injury*. J Thorac Cardiovasc Surg, 2014. **147**(2): p. 774-81: discussion 781-2.

1359. Dunlop, K., et al., *Therapeutic hypercapnia prevents inhaled nitric oxide-induced right-ventricular systolic dysfunction in juvenile rats*. Free Radic Biol Med, 2014. **69**: p. 35-49.
1360. Duong-Quy, S., et al., *Early inhaled nitric oxide at high dose enhances rat lung development after birth*. Nitric Oxide, 2014. **38**: p. 8-16.
1361. Dyavanapalli, J., et al., *Chronic intermittent hypoxia-hypercapnia blunts heart rate responses and alters neurotransmission to cardiac vagal neurons*. The Journal of physiology, 2014. **592**(13): p. 2799-2811.
1362. Endesfelder, S., et al., *Caffeine protects neuronal cells against injury caused by hyperoxia in the immature brain*. Free Radic Biol Med, 2014. **67**: p. 221-34.
1363. Enomoto, M., et al., *Newborn rat response to single vs. combined cGMP-dependent pulmonary vasodilators*. Am J Physiol Lung Cell Mol Physiol, 2014. **306**(2): p. L207-15.
1364. Entezari, M., et al., *Inhibition of extracellular HMGB1 attenuates hyperoxia-induced inflammatory acute lung injury*. Redox Biol, 2014. **2**: p. 314-22.
1365. Eurlings, I.M., et al., *Cigarette smoke extract induces a phenotypic shift in epithelial cells; involvement of HIF1alpha in mesenchymal transition*. PLoS One, 2014. **9**(10): p. e107757.
1366. Fancy, S.P., et al., *Parallel states of pathological Wnt signaling in neonatal brain injury and colon cancer*. Nat Neurosci, 2014. **17**(4): p. 506-12.
1367. Fawzi, A.A., et al., *Sildenafil attenuates vaso-obliteration and neovascularization in a mouse model of retinopathy of prematurity*. Invest Ophthalmol Vis Sci, 2014. **55**(3): p. 1493-501.
1368. Fazzi, F., et al., *TNFR1/phox interaction and TNFR1 mitochondrial translocation Thwart silica-induced pulmonary fibrosis*. J Immunol, 2014. **192**(8): p. 3837-46.
1369. Frazier, T.P., et al., *Human adipose-derived stromal/stem cells induce functional CD4+CD25+FoxP3+CD127- regulatory T cells under low oxygen culture conditions*. Stem Cells Dev, 2014. **23**(9): p. 968-77.
1370. Gantenbein, B., et al., *Activation of intervertebral disc cells by co-culture with notochordal cells, conditioned medium and hypoxia*. BMC Musculoskelet Disord, 2014. **15**(1): p. 422.
1371. Gaston, B., et al., *Essential role of hemoglobin beta-93-cysteine in posthypoxia facilitation of breathing in conscious mice*. J Appl Physiol (1985), 2014. **116**(10): p. 1290-9.
1372. Ghanian, Z., et al., *Organ specific optical imaging of mitochondrial redox state in a rodent model of hereditary hemorrhagic telangiectasia-1*. J Biophotonics, 2014. **7**(10): p. 799-809.
1373. Gong, X., et al., *Trimetazidine protects umbilical cord mesenchymal stem cells against hypoxia and serum deprivation induced apoptosis by activation of Akt*. Cell Physiol Biochem, 2014. **34**(6): p. 2245-55.
1374. Gosal, K., et al., *Rho-kinase Mediates Right Ventricular Systolic Dysfunction in Rats with Chronic Neonatal Pulmonary Hypertension*. American journal of respiratory cell and molecular biology, 2014(ja).
1375. Guan, X., et al., *Enhancement of osteogenesis and biodegradation control by brushite coating on Mg-Nd-Zn-Zr alloy for mandibular bone repair*. ACS Appl Mater Interfaces, 2014. **6**(23): p. 21525-33.

1376. Guo, X., et al., *PGC-1 α Signaling Coordinates Susceptibility to Metabolic and Oxidative Injury in the Inner Retina*. The American journal of pathology, 2014. **184**(4): p. 1017-1029.
1377. Gutsaeva, D.R., et al., *Molecular mechanisms underlying synergistic adhesion of sickle red blood cells by hypoxia and low nitric oxide bioavailability*. Blood, 2014. **123**(12): p. 1917-26.
1378. Han, Q., et al., *Cellular mechanisms in intermittent hypoxia-induced cardiac damage in vivo*. J Physiol Biochem, 2014. **70**(1): p. 201-13.
1379. Chen, J., et al., *Neuronal over-expression of ACE2 protects brain from ischemia-induced damage*. Neuropharmacology, 2014. **79**: p. 550-558.
1380. Harada, T., et al., *Decreased "ineffective erythropoiesis" preserves polycythemia in mice under long-term hypoxia*. Clinical and experimental medicine, 2014: p. 1-10.
1381. Hasnain, S.Z., et al., *Glycemic control in diabetes is restored by therapeutic manipulation of cytokines that regulate beta cell stress*. Nat Med, 2014. **20**(12): p. 1417-26.
1382. Heylman, C.M., et al., *Modeling and experimental methods to predict oxygen distribution in bone defects following cell transplantation*. Med Biol Eng Comput, 2014. **52**(4): p. 321-30.
1383. Hoppe, G., et al., *Inducing a Visceral Organ to Protect a Peripheral Capillary Bed: Stabilizing Hepatic HIF-1 α Prevents Oxygen-Induced Retinopathy*. The American journal of pathology, 2014. **184**(6): p. 1890-1899.
1384. Hou, P., et al., *Intermediary Metabolite Precursor Dimethyl-2-Ketoglutarate Stabilizes Hypoxia-Inducible Factor-1 α by Inhibiting Prolyl-4-Hydroxylase PHD2*. PloS one, 2014. **9**(11): p. e113865.
1385. Howell, K.R. and A. Pillai, *Effects of prenatal hypoxia on schizophrenia-related phenotypes in heterozygous reeler mice: A gene $\times$ environment interaction study*. European Neuropsychopharmacology, 2014. **24**(8): p. 1324-1336.
1386. Hu, X., et al., *Severe hypoxia exerts parallel and cell-specific regulation of gene expression and alternative splicing in human mesenchymal stem cells*. BMC Genomics, 2014. **15**(1): p. 303.
1387. Huang, T., et al., *Hypoxia-inducible factor-1 α upregulation in microglia following hypoxia protects against ischemia-induced cerebral infarction*. NeuroReport, 2014. **25**(14): p. 1122-1128.
1388. Huyard, F., et al., *Remodeling of Aorta Extracellular Matrix as a Result of Transient High Oxygen Exposure in Newborn Rats: Implication for Arterial Rigidity and Hypertension Risk*. PloS one, 2014. **9**(4): p. e92287.
1389. Ibrahim, Y.F., et al., *Mechanism of the susceptibility of remodeled pulmonary vessels to drug-induced cell killing*. J Am Heart Assoc, 2014. **3**(1): p. e000520.
1390. Isakova, I.A., et al., *Allo-reactivity of mesenchymal stem cells in rhesus macaques is dose and haplotype dependent and limits durable cell engraftment in vivo*. PLoS One, 2014. **9**(1): p. e87238.
1391. Jagadapillai, R., et al., *Ceftriaxone preserves glutamate transporters and prevents intermittent hypoxia-induced vulnerability to brain excitotoxic injury*. PLoS One, 2014. **9**(7): p. e100230.

1392. Januszyk, M., et al., *Diabetes Irreversibly Depletes Bone Marrow–Derived Mesenchymal Progenitor Cell Subpopulations*. Diabetes, 2014. **63**(9): p. 3047-3056.
1393. Jeong, D., et al., *Anti-inflammatory activities and mechanisms of Artemisia asiatica ethanol extract*. J Ethnopharmacol, 2014. **152**(3): p. 487-96.
1394. Jiang, M., et al., *Neuroprotective effects of bilobalide on cerebral ischemia and reperfusion injury are associated with inhibition of pro-inflammatory mediator production and down-regulation of JNK1/2 and p38 MAPK activation*. J Neuroinflammation, 2014. **11**(1): p. 167.
1395. Jiang, Y., et al., *Targeting Müller Cell–Derived VEGF164 to Reduce Intravitreal Neovascularization in the Rat Model of Retinopathy of Prematurity*. Investigative ophthalmology & visual science, 2014. **55**(2): p. 824-831.
1396. Jo, H., et al., *Sulodexide inhibits retinal neovascularization in a mouse model of oxygen-induced retinopathy*. BMB Rep, 2014. **47**(11): p. 637-42.
1397. Julian, G.S., et al., *Validation of housekeeping genes in the brains of rats submitted to chronic intermittent hypoxia, a sleep apnea model*. PLoS One, 2014. **9**(10): p. e109902.
1398. Jun, J.C., et al., *Intermittent hypoxia-induced glucose intolerance is abolished by α -adrenergic blockade or adrenal medullectomy*. American Journal of Physiology-Endocrinology and Metabolism, 2014. **307**(11): p. E1073-E1083.
1399. Kaur, P., et al., *Expression profiling of RNA transcripts during neuronal maturation and ischemic injury*. PLoS One, 2014. **9**(7): p. e103525.
1400. Kempes, C.P., et al., *Morphological optimization for access to dual oxidants in biofilms*. Proc Natl Acad Sci U S A, 2014. **111**(1): p. 208-13.
1401. Kim, J., et al., *Downregulation of metabolic activity increases cell survival under hypoxic conditions: potential applications for tissue engineering*. Tissue Eng Part A, 2014. **20**(15-16): p. 2265-72.
1402. Kondrikov, D., et al., *Novel peptide for attenuation of hyperoxia-induced disruption of lung endothelial barrier and pulmonary edema via modulating peroxynitrite formation*. J Biol Chem, 2014. **289**(48): p. 33355-63.
1403. Krishnappa, V., S. Boregowda, and D. Phinney, *FGF2 protects mouse mesenchymal stem cells from oxidative stress by modulating a twist2-p53 signaling axis*. Cytotherapy, 2014. **16**(4): p. S74.
1404. Krook, M.A., et al., *Stress-induced CXCR4 promotes migration and invasion of ewing sarcoma*. Mol Cancer Res, 2014. **12**(6): p. 953-64.
1405. Kuiper, C., et al., *Intracellular ascorbate enhances hypoxia-inducible factor (HIF)-hydroxylase activity and preferentially suppresses the HIF-1 transcriptional response*. Free Radic Biol Med, 2014. **69**: p. 308-17.
1406. Lagishetty, V., et al., *Dysregulation of CLOCK gene expression in hyperoxia-induced lung injury*. Am J Physiol Cell Physiol, 2014. **306**(11): p. C999-C1007.
1407. Lee, D., et al., *Hyperoxia resensitizes chemoresistant glioblastoma cells to temozolomide through unfolded protein response*. Anticancer research, 2014. **34**(6): p. 2957-2966.
1408. Lee, K.J., et al., *Disrupted pulmonary artery cyclic guanosine monophosphate signaling in mice with hyperoxia-induced pulmonary hypertension*. Am J Respir Cell Mol Biol, 2014. **50**(2): p. 369-78.

1409. Leithner, K., et al., *Hypoxia increases membrane metallo-endopeptidase expression in a novel lung cancer ex vivo model - role of tumor stroma cells*. BMC Cancer, 2014. **14**(1): p. 40.
1410. Burnight, E., et al., *CEP290 gene transfer rescues Leber congenital amaurosis cellular phenotype*. Gene therapy, 2014. **21**(7): p. 662.
1411. Li, D., et al., *Propofol selectively inhibits nuclear factor- κ B activity by suppressing p38 mitogen-activated protein kinase signaling in human EA. hy926 endothelial cells during intermittent hypoxia/reoxygenation*. Molecular medicine reports, 2014. **9**(4): p. 1460-1466.
1412. Lima-Ojeda, J.M., et al., *Lack of protracted behavioral abnormalities following intermittent or continuous chronic mild hypoxia in perinatal C57BL/6 mice*. Neurosci Lett, 2014. **577**: p. 77-82.
1413. Lin, H. and S. Qin, *Tipping points in seaweed genetic engineering: scaling up opportunities in the next decade*. Mar Drugs, 2014. **12**(5): p. 3025-45.
1414. Linzke, N., et al., *Carbon monoxide promotes proliferation of uterine natural killer cells and remodeling of spiral arteries in pregnant hypertensive heme oxygenase-1 mutant mice*. Hypertension, 2014. **63**(3): p. 580-8.
1415. Liu, H., et al., *Proteasomal degradation of O-GlcNAc transferase elevates hypoxia-induced vascular endothelial inflammatory response*. Cardiovascular research, 2014. **103**(1): p. 131-139.
1416. Liu, L., et al., *Intranasal versus Intraperitoneal Delivery of Human Umbilical Cord Tissue-Derived Cultured Mesenchymal Stromal Cells in a Murine Model of Neonatal Lung Injury*. The American Journal of Pathology, 2014. **184**(12): p. 3344-3358.
1417. Liu, X.B., et al., *Enhancement of cisplatin-based TACE by a hemoglobin-based oxygen carrier in an orthotopic rat HCC model*. Artif Cells Nanomed Biotechnol, 2014. **42**(4): p. 229-36.
1418. Liu, Y., et al., *Long-term biodistribution in vivo and toxicity of radioactive/magnetic hydroxyapatite nanorods*. Biomaterials, 2014. **35**(10): p. 3348-55.
1419. Liu, Y.-S., et al., *The expression of epidermal growth factor-like domain 7 regulated by oxygen tension via hypoxia inducible factor (HIF)-1 α activity*. Postgraduate medicine, 2014(0): p. 1-6.
1420. Lobo, M.R., et al., *Combined Efficacy of Cediranib and Quinacrine in Glioma Is Enhanced by Hypoxia and Causally Linked to Autophagic Vacuole Accumulation*. PloS one, 2014. **9**(12): p. e114110.
1421. Lottes, R.G., et al., *Alveolar type II cells maintain bioenergetic homeostasis in hypoxia through metabolic and molecular adaptation*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2014. **306**(10): p. L947-L955.
1422. Lu, M.-J., et al., *Hypoxic preconditioning protects rat hearts against ischemia-reperfusion injury via the arachidonate 12-lipoxygenase/transient receptor potential vanilloid 1 pathway*. Basic research in cardiology, 2014. **109**(4): p. 1-14.
1423. Lu, W., et al., *Effect of intermittent hypoxia on rat INS-1 cells and the protective effect of melatonin*. Eur Rev Med Pharmacol Sci, 2014. **18**(7): p. 941-8.

1424. Lucking, E.F., K.D. O'Halloran, and J.F. Jones, *Increased cardiac output contributes to the development of chronic intermittent hypoxia-induced hypertension*. *Exp Physiol*, 2014. **99**(10): p. 1312-24.
1425. Ludewig, P., et al., *CEACAM1 confers resistance towards oxygen-induced vessel damage in a mouse model of retinopathy of prematurity*. *Investigative ophthalmology & visual science*, 2014: p. IOVS-13-13403.
1426. Mahnke, A., et al., *Hypoxia in Leishmania major skin lesions impairs the NO-dependent leishmanicidal activity of macrophages*. *J Invest Dermatol*, 2014. **134**(9): p. 2339-2346.
1427. Marampon, F., et al., *Hypoxia sustains glioblastoma radioresistance through ERKs/DNA-PKcs/HIF-1 α functional interplay*. *International journal of oncology*, 2014. **44**(6): p. 2121-2131.
1428. Marconi, G.D., et al., *Postnatal hyperoxia exposure differentially affects hepatocytes and liver haemopoietic cells in newborn rats*. *PLoS One*, 2014. **9**(8): p. e105005.
1429. Maron, B.A., et al., *Upregulation of steroidogenic acute regulatory protein by hypoxia stimulates aldosterone synthesis in pulmonary artery endothelial cells to promote pulmonary vascular fibrosis*. *Circulation*, 2014. **130**(2): p. 168-79.
1430. Marozkina, L.A.P., J.N. Bates, and S.J. Lewis, *Essential role of hemoglobin beta-93-cysteine in*. *J Appl Physiol*, 2014. **116**: p. 1290-1299.
1431. Martindale, J.J. and J.M. Metzger, *Uncoupling of increased cellular oxidative stress and myocardial ischemia reperfusion injury by directed sarcolemma stabilization*. *J Mol Cell Cardiol*, 2014. **67**: p. 26-37.
1432. Matsubara, M., et al., *Influence of the difference of breastfeeding volume on a rat model of oxygen-induced retinopathy*. *J Clin Biochem Nutr*, 2014. **55**(2): p. 129-34.
1433. McIntyre-Wressnig, A., et al., *Ocean acidification not likely to affect the survival and fitness of two temperate benthic foraminiferal species: results from culture experiments*. *The Journal of Foraminiferal Research*, 2014. **44**(4): p. 341-351.
1434. McKenna, S., et al., *Sustained hyperoxia-induced NF- κ B activation improves survival and preserves lung development in neonatal mice*. *American Journal of Physiology-Lung Cellular and Molecular Physiology*, 2014. **306**(12): p. L1078-L1089.
1435. Mei, S.H., et al., *Isolation and large-scale expansion of bone marrow-derived mesenchymal stem cells with serum-free media under GMP-compliance*. *mortality*, 2014. **40**: p. 1.
1436. Mei, S.H., et al., *Isolation and large-scale expansion of bone marrow-derived mesenchymal stem cells with serum-free media under GMP-compliance*. *Cytotherapy*, 2014. **16**(4): p. S111.
1437. Mendez-Sanchez, J.F. and W.W. Burggren, *Environmental modulation of the onset of air breathing and survival of Betta splendens and Trichopodus trichopterus*. *J Fish Biol*, 2014. **84**(3): p. 794-807.
1438. Mennesson, E., et al., *SilenciX®, novel stable knock-down cellular models to screen new molecular targets through the synthetic lethality approach*. *Cancer Research*, 2014. **74**(19 Supplement): p. 3733-3733.

1439. Menon, D.R., et al., *A stress-induced early innate response causes multidrug tolerance in melanoma*. *Oncogene*, 2014.
1440. Mezu-Ndubuisi, O.J., et al., *Correspondence of retinal thinning and vasculopathy in mice with oxygen-induced retinopathy*. *Exp Eye Res*, 2014. **122**: p. 119-22.
1441. Michaelis, K.A., et al., *I κ B β -Mediated NF- κ B Activation Confers Protection against Hyperoxic Lung Injury*. *American journal of respiratory cell and molecular biology*, 2014. **50**(2): p. 429-438.
1442. Miloudi, K., et al., *Assessment of vascular regeneration in the CNS using the mouse retina*. *JoVE (Journal of Visualized Experiments)*, 2014(88): p. e51351-e51351.
1443. Miners, S., et al., *Reduced vascular endothelial growth factor and capillary density in the occipital cortex in dementia with Lewy bodies*. *Brain Pathol*, 2014. **24**(4): p. 334-43.
1444. Moraes, D.J., et al., *Short-term sustained hypoxia induces changes in the coupling of sympathetic and respiratory activities in rats*. *J Physiol*, 2014. **592**(9): p. 2013-33.
1445. Muñoz, N., et al., *Gas chromatography–mass spectrometry analysis of human mesenchymal stem cell metabolism during proliferation and osteogenic differentiation under different oxygen tensions*. *Journal of biotechnology*, 2014. **169**: p. 95-102.
1446. Nagai, M., et al., *Simultaneous comparison of thrombogenic reactions to different combinations of anticoagulants, activated clotting times, and materials*. *J Biomed Mater Res B Appl Biomater*, 2014. **102**(8): p. 1605-12.
1447. Nahar, K., et al., *Peptide-coated liposomal fasudil enhances site specific vasodilation in pulmonary arterial hypertension*. *Mol Pharm*, 2014. **11**(12): p. 4374-84.
1448. Nakamura, S., et al., *Role of metallothioneins 1 and 2 in ocular neovascularization*. *Invest Ophthalmol Vis Sci*, 2014. **55**(10): p. 6851-6860.
1449. Nalwa, H.S., *A special issue on reviews in biomedical applications of nanomaterials, tissue engineering, stem cells, bioimaging, and toxicity*. *J Biomed Nanotechnol*, 2014. **10**(10): p. 2421-3.
1450. Namba, F., et al., *Expression level and subcellular localization of heme oxygenase-1 modulates its cytoprotective properties in response to lung injury: a mouse model*. *PLoS One*, 2014. **9**(3): p. e90936.
1451. Nuschke, A., et al., *Human mesenchymal stem cells/multipotent stromal cells consume accumulated autophagosomes early in differentiation*. *Stem Cell Res Ther*, 2014. **5**(6): p. 140.
1452. Oghli, M.G., et al., *Right Ventricle Functional Parameters Estimation in Arrhythmogenic Right Ventricular Dysplasia Using a Robust Shape Based Deformable Model*. *Journal of medical signals and sensors*, 2014. **4**(3): p. 211.
1453. Papaioannou, S., *Adipose-Derived Stem Cell Exosomes & Their Relevance In Regenerative Medicine*. thesis, 2014.
1454. Peng, X., et al., *Involvement of calcium-sensing receptors in hypoxia-induced vascular remodeling and pulmonary hypertension by promoting phenotypic*

- modulation of small pulmonary arteries*. Mol Cell Biochem, 2014. **396**(1-2): p. 87-98.
1455. Phinney, D.G. and I.A. Isakova, *Mesenchymal stem cells as cellular vectors for pediatric neurological disorders*. Brain Res, 2014. **1573**: p. 92-107.
 1456. Poitz, D.M., et al., *Regulation of the HIF-system in human macrophages—Differential regulation of HIF- α subunits under sustained hypoxia*. Molecular immunology, 2014. **57**(2): p. 226-235.
 1457. Popova, A.P., et al., *Reduced platelet-derived growth factor receptor expression is a primary feature of human bronchopulmonary dysplasia*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2014. **307**(3): p. L231-L239.
 1458. Porter, K.M., et al., *Chronic Hypoxia Promotes Pulmonary Artery Endothelial Cell Proliferation through H₂O₂-Induced 5-Lipoxygenase*. PloS one, 2014. **9**(6): p. e98532.
 1459. Porzionato, A., et al., *Effects of postnatal hyperoxia exposure on the rat dentate gyrus and subventricular zone*. Brain Structure and Function, 2014. **220**(1): p. 229-247.
 1460. Potdar, A.A., et al., *Computational modeling and analysis of iron release from macrophages*. PLoS Comput Biol, 2014. **10**(7): p. e1003701.
 1461. Prasad, M., et al., *Moderate hypoxia influences potassium outward currents in adipose-derived stem cells*. PLoS One, 2014. **9**(8): p. e104912.
 1462. Prasain, N., et al., *Differentiation of human pluripotent stem cells to cells similar to cord-blood endothelial colony-forming cells*. Nat Biotechnol, 2014. **32**(11): p. 1151-1157.
 1463. Ramchandran, R., et al., *PKG1 α leucine zipper domain defect increases pulmonary vascular tone: implications in hypoxic pulmonary hypertension*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2014: p. ajplung. 00093.2014.
 1464. Rau, T.F., et al., *Phenoxybenzamine Is Neuroprotective in a Rat Model of Severe Traumatic Brain Injury*. International journal of molecular sciences, 2014. **15**(1): p. 1402-1417.
 1465. Ravikumar, P., et al., *alpha-Klotho protects against oxidative damage in pulmonary epithelia*. Am J Physiol Lung Cell Mol Physiol, 2014. **307**(7): p. L566-75.
 1466. Reitman, Z.J., et al., *Cancer-associated isocitrate dehydrogenase 1 (IDH1) R132H mutation and d-2-hydroxyglutarate stimulate glutamine metabolism under hypoxia*. J Biol Chem, 2014. **289**(34): p. 23318-28.
 1467. Rich, A. and H.R. Gaskins, *Gluathione and its Role in Cellular Adaptation to Hypoxia*. i-ACES, 2014. **1**(1).
 1468. Röhrborn, D., J. Eckel, and H. Sell, *Shedding of dipeptidyl peptidase 4 is mediated by metalloproteases and up-regulated by hypoxia in human adipocytes and smooth muscle cells*. FEBS letters, 2014. **588**(21): p. 3870-3877.
 1469. Ronkainen, V.-P., et al., *Hypoxia-inducible factor 1-induced G protein-coupled receptor 35 expression is an early marker of progressive cardiac remodelling*. Cardiovascular research, 2014. **101**(1): p. 69-77.

1470. Rueda-Clausen, C.F., et al., *Effect of prenatal hypoxia in transgenic mouse models of preeclampsia and fetal growth restriction*. Reprod Sci, 2014. **21**(4): p. 492-502.
1471. Russo, V., et al., *Comparison of human adipose-derived stem cells isolated from subcutaneous, omental, and intrathoracic adipose tissue depots for regenerative applications*. Stem Cells Transl Med, 2014. **3**(2): p. 206-17.
1472. Salomon, C., et al., *Extravillous trophoblast cells-derived exosomes promote vascular smooth muscle cell migration*. Front Pharmacol, 2014. **5**: p. 175.
1473. Sandholm, J., et al., *Hypoxia regulates Toll-like receptor-9 expression and invasive function in human brain cancer cells in vitro*. Oncol Lett, 2014. **8**(1): p. 266-274.
1474. Schmitz, T., et al., *Minocycline protects the immature white matter against hyperoxia*. Exp Neurol, 2014. **254**: p. 153-65.
1475. Schwingshackl, A., et al., *Deficiency of the two-pore-domain potassium channel TREK-1 promotes hyperoxia-induced lung injury*. Crit Care Med, 2014. **42**(11): p. e692-701.
1476. Shah, P.K., et al., *Small sample sorting of primary adherent cells by automated micropallet imaging and release*. Cytometry A, 2014. **85**(7): p. 642-9.
1477. Shah, P.K., et al., *Dynamics and evolution of β -catenin-dependent Wnt signaling revealed through massively parallel clonogenic screening*. Integrative Biology, 2014.
1478. Shatat, M.A., et al., *Endothelial Kruppel-like factor 4 modulates pulmonary arterial hypertension*. Am J Respir Cell Mol Biol, 2014. **50**(3): p. 647-53.
1479. Shlyonsky, V., R. Naeije, and F. Mies, *Possible role of lysophosphatidic acid in rat model of hypoxic pulmonary vascular remodeling*. Pulm Circ, 2014. **4**(3): p. 471-81.
1480. Shyu, K.G., et al., *Hypoxia activates muscle-restricted coiled-coil protein (MURC) expression via transforming growth factor-beta in cardiac myocytes*. Clin Sci (Lond), 2014. **126**(5): p. 367-75.
1481. Sitapara, R.A., et al., *The $\alpha 7$ Nicotinic Acetylcholine Receptor Agonist GTS-21 Improves Bacterial Clearance in Mice by Restoring Hyperoxia-Compromised Macrophage Function*. Molecular Medicine, 2014. **20**(1): p. 238.
1482. Siwetz, M., et al., *Metalloprotease dependent release of placenta derived fractalkine*. Mediators Inflamm, 2014. **2014**: p. 839290.
1483. Słomka, M., et al., *NMDA receptor antagonists MK-801 and memantine induce tolerance to oxygen and glucose deprivation in primary cultures of rat cerebellar granule cells*. Acta Neurobiol Exp, 2014. **74**: p. 396-404.
1484. Sobeih, D., et al., *Deletion of SPARC Enhances Retinal Vaso-Obliteration in Mouse Model of Oxygen-Induced Retinopathy*. HSOA J Ophthalmol Clin Res, 2014. **1**(1): p. 2.
1485. Sohn, E.H., et al., *Structural and biochemical analyses of choroidal thickness in human donor eyes*. Invest Ophthalmol Vis Sci, 2014. **55**(3): p. 1352-60.
1486. Soliman, S., et al., *Candesartan induces a prolonged proangiogenic effect and augments endothelium-mediated neuroprotection after oxygen and glucose deprivation: role of vascular endothelial growth factors A and B*. J Pharmacol Exp Ther, 2014. **349**(3): p. 444-57.

1487. Son, J.-H., et al., *Melatonin promotes osteoblast differentiation and mineralization of MC3T3-E1 cells under hypoxic conditions through activation of PKD/p38 pathways*. Journal of pineal research, 2014.
1488. Stimson, R.J., *1 Proximity and endogenous regional development*. Regional Development and Proximity Relations, 2014: p. 47.
1489. Sturrock, A., et al., *Key role of microRNA in the regulation of granulocyte macrophage colony-stimulating factor expression in murine alveolar epithelial cells during oxidative stress*. J Biol Chem, 2014. **289**(7): p. 4095-105.
1490. Su, C.L., et al., *Combined effects of maternal inflammation and neonatal hyperoxia on lung fibrosis and RAGE expression in newborn rats*. Pediatr Res, 2014. **75**(2): p. 273-80.
1491. Su, J., et al., *Raphe serotonergic neurons modulate genioglossus corticomotor activity in intermittent hypoxic rats*. Respir Res, 2014. **15**(1): p. 76.
1492. Sullivan, E.J., et al., *Targeting cisplatin-resistant human tumor cells with metabolic inhibitors*. Cancer Chemother Pharmacol, 2014. **73**(2): p. 417-27.
1493. Suryana, E. and N.M. Jones, *The effects of hypoxic preconditioning on white matter damage following hypoxic-ischaemic injury in the neonatal rat brain*. Int J Dev Neurosci, 2014. **37**: p. 69-75.
1494. Sweigard, J.H., et al., *The alternative complement pathway regulates pathological angiogenesis in the retina*. FASEB J, 2014. **28**(7): p. 3171-82.
1495. Taha, M., et al., *Circulating Extracellular Micrornas In Hypoxia-Induced Pulmonary Hypertension In Mice*. Am J Respir Crit Care Med, 2014. **189**: p. A3309.
1496. Tertilt, M., et al., *Regulation and novel action of thymidine phosphorylase in non-small cell lung cancer: crosstalk with Nrf2 and HO-1*. PLoS One, 2014. **9**(5): p. e97070.
1497. Tibboel, J., et al., *HIF-1 Stimulates Postnatal Lung Development but Does Not Prevent O₂-induced Alveolar Injury*. American journal of respiratory cell and molecular biology, 2014(ja).
1498. Tjärnlund-Wolf, A., et al., *Species-Specific regulation of t-PA and PAI-1 gene expression in human and rat astrocytes*. Gene regulation and systems biology, 2014. **8**: p. 113.
1499. Toutounchian, J.J., et al., *Modulation of radiation injury response in retinal endothelial cells by quinic acid derivative KZ-41 involves p38 MAPK*. PLoS One, 2014. **9**(6): p. e100210.
1500. Tucker, B.A., R.F. Mullins, and E.M. Stone, *Stem cells for investigation and treatment of inherited retinal disease*. Hum Mol Genet, 2014. **23**(R1): p. R9-R16.
1501. Vadivel, A., et al., *Hypoxia-inducible factors promote alveolar development and regeneration*. Am J Respir Cell Mol Biol, 2014. **50**(1): p. 96-105.
1502. Vadivel, A., et al., *Exogenous hydrogen sulfide (H₂S) protects alveolar growth in experimental O₂-induced neonatal lung injury*. PLoS One, 2014. **9**(3): p. e90965.
1503. Varela-Nallar, L., et al., *Chronic hypoxia induces the activation of the Wnt/ β -catenin signaling pathway and stimulates hippocampal neurogenesis in wild-type and APP^{swe}-PS1 Δ E9 transgenic mice in vivo*. Frontiers in cellular neuroscience, 2014. **8**.

1504. Viswanathan, P., et al., *Human pluripotent stem cells on artificial microenvironments: a high content perspective*. Front Pharmacol, 2014. **5**: p. 150.
1505. Vitali, S.H., et al., *The Sugen 5416/hypoxia mouse model of pulmonary hypertension revisited: long-term follow-up*. Pulm Circ, 2014. **4**(4): p. 619-29.
1506. Vlaski, M., et al., *Hypoxia/Hypercapnia-Induced Adaptation Maintains Functional Capacity of Cord Blood Stem and Progenitor Cells at 4° C*. Journal of cellular physiology, 2014. **229**(12): p. 2153-2165.
1507. Vyas-Read, S., et al., *Hyperoxia induces alveolar epithelial-to-mesenchymal cell transition*. Am J Physiol Lung Cell Mol Physiol, 2014. **306**(4): p. L326-40.
1508. Wall, A.M., et al., *Effects of prolyl-hydroxylase inhibition and chronic intermittent hypoxia on synaptic transmission and plasticity in the rat CA1 and dentate gyrus*. Neurobiol Dis, 2014. **62**: p. 8-17.
1509. Wallace, K., et al., *Enodthelin 1 Is Elevated in Plasma and Explants From Patients Having Uterine Leiomyomas*. Reproductive Sciences, 2014. **21**(9): p. 1196-1205.
1510. Wang, C., et al., *Preparation of laponite bioceramics for potential bone tissue engineering applications*. PLoS One, 2014. **9**(6): p. e99585.
1511. Wang, H., et al., *Quantitative analyses of retinal vascular area and density after different methods to reduce VEGF in a rat model of retinopathy of prematurity*. Invest Ophthalmol Vis Sci, 2014. **55**(2): p. 737-44.
1512. Wang, L., et al., *Increased leptin by hypoxic-preconditioning promotes autophagy of mesenchymal stem cells and protects them from apoptosis*. Science China Life Sciences, 2014. **57**(2): p. 171-180.
1513. Wang, S., et al., *Overexpression of FABP3 inhibits human bone marrow derived mesenchymal stem cell proliferation but enhances their survival in hypoxia*. Experimental cell research, 2014. **323**(1): p. 56-65.
1514. Wang, W., et al., *The Influence Of Chronic Intermittent Hypoxia On The Corticomotor Cortex Of Genioglossus In Rats*. Am J Respir Crit Care Med, 2014. **189**: p. A3900.
1515. Weis, S., et al., *Autophagy in the brain of neonates following hypoxia–ischemia shows sex-and region-specific effects*. Neuroscience, 2014. **256**: p. 201-209.
1516. Welschoff, J., M. Matthey, and D. Wenzel, *RGD peptides induce relaxation of pulmonary arteries and airways via β 3-integrins*. The FASEB Journal, 2014. **28**(5): p. 2281-2292.
1517. Westwood, D.A., O. Patel, and G.S. Baldwin, *Gastrin mediates resistance to hypoxia-induced cell death in xenografts of the human colorectal cancer cell line LoVo*. Biochim Biophys Acta, 2014. **1843**(11): p. 2471-80.
1518. Wilhelm, K.R., et al., *Hyperoxia increases the elastic modulus of alveolar epithelial cells through Rho kinase*. FEBS Journal, 2014. **281**(3): p. 957-969.
1519. Won, S., et al., *Progesterone attenuates hemorrhagic transformation after delayed tPA treatment in an experimental model of stroke in rats: involvement of the VEGF–MMP pathway*. Journal of Cerebral Blood Flow & Metabolism, 2014. **34**(1): p. 72-80.

1520. Wu, C.P., et al., *Hypoxia promotes stem-like properties of laryngeal cancer cell lines by increasing the CD133+ stem cell fraction*. Int J Oncol, 2014. **44**(5): p. 1652-60.
1521. Wu, M., et al., *Dynamic regulation of Rad51 by E2F1 and p53 in prostate cancer cells upon drug-induced DNA damage under hypoxia*. Molecular pharmacology, 2014. **85**(6): p. 866-876.
1522. Xiao, A.J., et al., *Marine compound xyloketal B reduces neonatal hypoxic-ischemic brain injury*. Mar Drugs, 2014. **13**(1): p. 29-47.
1523. Yagasaki, R., et al., *Anti-angiogenic effects of mammalian target of rapamycin inhibitors in a mouse model of oxygen-induced retinopathy*. Biol Pharm Bull, 2014. **37**(11): p. 1838-42.
1524. Yamada, K.Y., et al., *Effect of postnatal intermittent hypoxia on locomotor activity and neuronal development in rats tested in early adulthood*. Psychology & Neuroscience, 2014(AHEAD): p. 0-0.
1525. Yang, G., et al., *Oxidative stress and inflammation modulate rev-erba signaling in the neonatal lung and affect circadian rhythmicity*. Antioxidants & redox signaling, 2014. **21**(1): p. 17-32.
1526. Yang, Z., et al., *VEGFA activates erythropoietin receptor and enhances VEGFR2-mediated pathological angiogenesis*. Am J Pathol, 2014. **184**(4): p. 1230-1239.
1527. Ye, P., et al., *Hypoxia-induced deregulation of miR-126 and its regulative effect on VEGF and MMP-9 expression*. Int J Med Sci, 2014. **11**(1): p. 17-23.
1528. Yu, W., et al., *Cardiac shock wave therapy attenuates H9c2 myoblast apoptosis by activating the AKT signal pathway*. Cell Physiol Biochem, 2014. **33**(5): p. 1293-303.
1529. Yuan, X., et al., *Atorvastatin attenuates myocardial remodeling induced by chronic intermittent hypoxia in rats: partly involvement of TLR-4/MYD88 pathway*. Biochem Biophys Res Commun, 2014. **446**(1): p. 292-7.
1530. Yufit, T., P. Carson, and V. Falanga, *Topical delivery of cultured stem cells to human non-healing wounds: GMP facility development in an academic setting and FDA requirements for an IND and human testing*. Curr Drug Deliv, 2014. **11**(5): p. 572-81.
1531. Yung, H.W., et al., *Differential activation of placental unfolded protein response pathways implies heterogeneity in causation of early- and late-onset pre-eclampsia*. J Pathol, 2014. **234**(2): p. 262-76.
1532. Zaghloul, N., et al., *Overexpression of extracellular superoxide dismutase protects against brain injury induced by chronic hypoxia*. PLoS One, 2014. **9**(9): p. e108168.
1533. Zaja, I., et al., *Cdk1, PKC δ and calcineurin-mediated Drp1 pathway contributes to mitochondrial fission-induced cardiomyocyte death*. Biochemical and biophysical research communications, 2014. **453**(4): p. 710-721.
1534. Zanelli, S., et al., *Impact of transient acute hypoxia on the developing mouse EEG*. Neurobiol Dis, 2014. **68**: p. 37-46.
1535. Zhang, C., et al., *Peptide dendrimer-Doxorubicin conjugate-based nanoparticles as an enzyme-responsive drug delivery system for cancer therapy*. Adv Healthc Mater, 2014. **3**(8): p. 1299-308.

1536. Zhang, H., et al., *MicroRNA-145 inhibits the growth, invasion, metastasis and angiogenesis of neuroblastoma cells through targeting hypoxia-inducible factor 2 alpha*. *Oncogene*, 2014. **33**(3): p. 387-397.
1537. Zhang, L., et al., *Baicalin Inhibits Hypoxia-Induced Pulmonary Artery Smooth Muscle Cell Proliferation via the AKT/HIF-1 α /p27-Associated Pathway*. *International journal of molecular sciences*, 2014. **15**(5): p. 8153-8168.
1538. Zhang, M., et al., *Lin28a protects against hypoxia/reoxygenation induced cardiomyocytes apoptosis by alleviating mitochondrial dysfunction under high glucose/high fat conditions*. *PLoS One*, 2014. **9**(10): p. e110580.
1539. Zhao, W., et al., *Mesenchymal stem cell biodistribution, migration, and homing in vivo*. *Stem Cells Int*, 2014. **2014**: p. 292109.
1540. Zhao, Y., et al., *High-power non-enzymatic glucose biofuel cells based on three-dimensional platinum nanoclusters immobilized on multiwalled carbon nanotubes*. *Electrochimica Acta*, 2014. **145**: p. 159-169.
1541. Abdalla, M., et al., *Akt1 mediates alpha-smooth muscle actin expression and myofibroblast differentiation via myocardin and serum response factor*. *J Biol Chem*, 2013. **288**(46): p. 33483-93.
1542. Abdelsaid, M.A., S. Matragoon, and A.B. El-Remessy, *Thioredoxin-interacting protein expression is required for VEGF-mediated angiogenic signal in endothelial cells*. *Antioxidants & redox signaling*, 2013. **19**(18): p. 2199-2212.
1543. Ahlfeld, S.K., et al., *Periostin downregulation is an early marker of inhibited neonatal murine lung alveolar septation*. *Birth Defects Research Part A: Clinical and Molecular Teratology*, 2013. **97**(6): p. 373-385.
1544. Alagappan, D., et al., *Egr-1 is a critical regulator of EGF-receptor-mediated expansion of subventricular zone neural stem cells and progenitors during recovery from hypoxia-hypoglycemia*. *ASN neuro*, 2013. **5**(3): p. AN20120032.
1545. Albarracin, R., et al., *670 nm light mitigates oxygen-induced degeneration in C57BL/6 J mouse retina*. *BMC neuroscience*, 2013. **14**(1): p. 125.
1546. Ali, I., et al., *Hypoxia preconditioning increases survival and decreases expression of Toll-like receptor 4 in pulmonary artery endothelial cells exposed to lipopolysaccharide*. *Pulm Circ*, 2013. **3**(3): p. 578-88.
1547. Alibrahim, A., et al., *Neuroprotective effects of volume-regulated anion channel blocker DCPIB on neonatal hypoxic-ischemic injury*. *Acta Pharmacol Sin*, 2013. **34**(1): p. 113-8.
1548. Ameri, K., et al., *Nuclear localization of the mitochondrial factor HIGD1A during metabolic stress*. *PLoS One*, 2013. **8**(4): p. e62758.
1549. Angelini, D.J., et al., *Hypoxia-induced mitogenic factor (HIMF/FIZZ1/RELM α) in chronic hypoxia-and antigen-mediated pulmonary vascular remodeling*. *Respir Res*, 2013. **14**(1).
1550. Anna, C., et al., *A rapid screening test for endocrine disrupting chemicals using primary cell culture of the marine medaka*. *Aquatic toxicology*, 2013. **144**: p. 50-58.
1551. Aras, S., et al., *Oxygen-dependent expression of cytochrome c oxidase subunit 4-2 gene expression is mediated by transcription factors RBPJ, CXXC5 and CHCHD2*. *Nucleic acids research*, 2013: p. gks1454.

1552. Aufradet, E., et al., *Hypoxia/reoxygenation stress increases markers of vasoocclusive crisis in sickle SAD mice*. Clin Hemorheol Microcirc, 2013. **54**(3): p. 297-312.
1553. Bansal, G., et al., *IL-22 activates oxidant signaling in pulmonary vascular smooth muscle cells*. Cell Signal, 2013. **25**(12): p. 2727-33.
1554. Bath, C., *Human corneal epithelial subpopulations: oxygen dependent ex vivo expansion and transcriptional profiling*. Acta Ophthalmol, 2013. **91 Thesis 4**(thesis4): p. 1-34.
1555. Bath, C., et al., *Hypoxia is a key regulator of limbal epithelial stem cell growth and differentiation*. Stem cell research, 2013. **10**(3): p. 349-360.
1556. Bathina, C.S., et al., *Knockdown of tyrosine hydroxylase in the nucleus of the solitary tract reduces elevated blood pressure during chronic intermittent hypoxia*. Am J Physiol Regul Integr Comp Physiol, 2013. **305**(9): p. R1031-9.
1557. Bauer, A.J., et al., *Pravastatin attenuates hypertension, oxidative stress, and angiogenic imbalance in rat model of placental ischemia-induced hypertension*. Hypertension, 2013. **61**(5): p. 1103-10.
1558. Baumann, G., et al., *Pronounced hypoxia in the subventricular zone following traumatic brain injury and the neural stem/progenitor cell response*. Exp Biol Med (Maywood), 2013. **238**(7): p. 830-41.
1559. Baysal, B.E., et al., *Hypoxia-inducible C-to-U coding RNA editing downregulates SDHB in monocytes*. PeerJ, 2013. **1**: p. e152.
1560. Berger, S., et al., *Endothelial progenitor cells in acute myocardial infarction and sleep-disordered breathing*. Am J Respir Crit Care Med, 2013. **187**(1): p. 90-8.
1561. Berkelhamer, S.K., et al., *Developmental differences in hyperoxia-induced oxidative stress and cellular responses in the murine lung*. Free Radic Biol Med, 2013. **61**: p. 51-60.
1562. Bianco, C., et al., *Regulation of human Cripto-1 expression by nuclear receptors and DNA promoter methylation in human embryonal and breast cancer cells*. J Cell Physiol, 2013. **228**(6): p. 1174-88.
1563. Blaustein, M., et al., *Modulation of the Akt pathway reveals a novel link with PERK/eIF2 α , which is relevant during hypoxia*. PloS one, 2013. **8**(7).
1564. Brill, A., G. Suidan, and D. Wagner, *Hypoxia, such as encountered at high altitude, promotes deep vein thrombosis in mice*. Journal of Thrombosis and Haemostasis, 2013. **11**(9): p. 1773-1775.
1565. Cameron, J.C., et al., *Biogenesis of a bacterial organelle: the carboxysome assembly pathway*. Cell, 2013. **155**(5): p. 1131-40.
1566. Caralla, T., et al., *In vivo transplantation of autogenous marrow-derived cells following rapid intraoperative magnetic separation based on hyaluronan to augment bone regeneration*. Tissue Eng Part A, 2013. **19**(1-2): p. 125-34.
1567. Chang, C.P., et al., *Hypoxic preconditioning enhances the therapeutic potential of the secretome from cultured human mesenchymal stem cells in experimental traumatic brain injury*. Clin Sci (Lond), 2013. **124**(3): p. 165-76.
1568. Chang, W.W., et al., *Salmonella enhance chemosensitivity in tumor through connexin 43 upregulation*. International Journal of Cancer, 2013. **133**(8): p. 1926-1935.

1569. Chaturvedi, S., et al., *Slit2 prevents neutrophil recruitment and renal ischemia-reperfusion injury*. J Am Soc Nephrol, 2013. **24**(8): p. 1274-87.
1570. Chen, X.Q., et al., *Lipoxin A4-induced heme oxygenase-1 protects cardiomyocytes against hypoxia/reoxygenation injury via p38 MAPK activation and Nrf2/ARE complex*. PLoS One, 2013. **8**(6): p. e67120.
1571. Chen, X.-Q., et al., *Involvement of K⁺ channel-dependant pathways in lipoxin A4-induced protective effects on hypoxia/reoxygenation injury of cardiomyocytes*. Prostaglandins, Leukotrienes and Essential Fatty Acids (PLEFA), 2013. **88**(5): p. 391-397.
1572. Ch'ng, W.-C., et al., *The Oncolytic Activity of Newcastle Disease Virus in Clear Cell Renal Carcinoma Cells in Normoxic and Hypoxic Conditions: The Interplay Between von Hippel-Lindau and Interferon- β Signaling*. Journal of Interferon & Cytokine Research, 2013. **33**(7): p. 346-354.
1573. Choi, H.J., et al., *ECM-dependent HIF induction directs trophoblast stem cell fate via LIMK1-mediated cytoskeletal rearrangement*. PLoS One, 2013. **8**(2): p. e56949.
1574. Choi, J., et al., *Degradome products of the matricellular protein CCN1 as modulators of pathological angiogenesis in the retina*. Journal of Biological Chemistry, 2013. **288**(32): p. 23075-23089.
1575. Chou, Y.T., et al., *C/EBP homologous binding protein (CHOP) underlies neural injury in sleep apnea model*. Sleep, 2013. **36**(4): p. 481-92.
1576. Colleoni, F., et al., *Suppression of mitochondrial electron transport chain function in the hypoxic human placenta: a role for miRNA-210 and protein synthesis inhibition*. PLoS One, 2013. **8**(1): p. e55194.
1577. Cordero-Espinoza, L. and T. Hagen, *Regulation of Cullin-RING ubiquitin ligase 1 by Spliceosome-associated protein 130 (SAP130)*. Biol Open, 2013. **2**(8): p. 838-44.
1578. Costa, K.M., D.J. Moraes, and B.H. Machado, *Acute inhibition of glial cells in the NTS does not affect respiratory and sympathetic activities in rats exposed to chronic intermittent hypoxia*. Brain research, 2013. **1496**: p. 36-48.
1579. Cullberg, K.B., et al., *Resveratrol has inhibitory effects on the hypoxia-induced inflammation and angiogenesis in human adipose tissue in vitro*. European Journal of Pharmaceutical Sciences, 2013. **49**(2): p. 251-257.
1580. Cunningham-Bussel, A., F.C. Bange, and C.F. Nathan, *Nitrite impacts the survival of Mycobacterium tuberculosis in response to isoniazid and hydrogen peroxide*. Microbiologyopen, 2013. **2**(6): p. 901-11.
1581. Das, K.C., *Hyperoxia decreases glycolytic capacity, glycolytic reserve and oxidative phosphorylation in MLE-12 cells and inhibits complex I and II function, but not complex IV in isolated mouse lung mitochondria*. PloS one, 2013. **8**(9): p. e73358.
1582. de Theije, C.C., et al., *Distinct responses of protein turnover regulatory pathways in hypoxia- and semistarvation-induced muscle atrophy*. Am J Physiol Lung Cell Mol Physiol, 2013. **305**(1): p. L82-91.
1583. Diaz, B., et al., *Notch increases the shedding of HB-EGF by ADAM12 to potentiate invadopodia formation in hypoxia*. J Cell Biol, 2013. **201**(2): p. 279-92.

1584. Dick, A.S., et al., *Cyclic stretch stimulates nitric oxide synthase-1-dependent peroxynitrite formation by neonatal rat pulmonary artery smooth muscle*. Free Radic Biol Med, 2013. **61**: p. 310-9.
1585. Dietrich, A.K., G.I. Humphreys, and A.M. Nardulli, *17 β -Estradiol increases expression of the oxidative stress response and DNA repair protein apurinic endonuclease (Ape1) in the cerebral cortex of female mice following hypoxia*. The Journal of steroid biochemistry and molecular biology, 2013. **138**: p. 410-420.
1586. Dietrich, L.E., et al., *Bacterial community morphogenesis is intimately linked to the intracellular redox state*. Journal of bacteriology, 2013. **195**(7): p. 1371-1380.
1587. Dobes, N.C., et al., *Laser-based directed release of array elements for efficient collection into targeted microwells*. Analyst, 2013. **138**(3): p. 831-838.
1588. Doran, P.M., *Therapeutically important proteins from in vitro plant tissue culture systems*. Curr Med Chem, 2013. **20**(8): p. 1047-55.
1589. Douglas, R.M., et al., *Intermittent hypoxia and hypercapnia induce pulmonary artery atherosclerosis and ventricular dysfunction in low density lipoprotein receptor deficient mice*. J Appl Physiol (1985), 2013. **115**(11): p. 1694-704.
1590. Escobar, J., et al., *Prolonging in utero-like oxygenation after birth diminishes oxidative stress in the lung and brain of mice pups*. Redox Biol, 2013. **1**(1): p. 297-303.
1591. Evensen, N.A., et al., *Development of a high-throughput three-dimensional invasion assay for anti-cancer drug discovery*. PLoS One, 2013. **8**(12): p. e82811.
1592. Ferrazzano, P., et al., *Age-dependent microglial activation in immature brains after hypoxia- ischemia*. CNS Neurol Disord Drug Targets, 2013. **12**(3): p. 338-49.
1593. Foldager, C.B., *Advances in autologous chondrocyte implantation and related techniques for cartilage repair*. Dan Med J, 2013. **60**(4): p. B4600.
1594. Frazier, T.P., et al., *Impact of low oxygen on the secretome of human adipose-derived stromal/stem cell primary cultures*. Biochimie, 2013. **95**(12): p. 2286-96.
1595. Fukumoto, J., et al., *NLRP3 deletion protects from hyperoxia-induced acute lung injury*. Am J Physiol Cell Physiol, 2013. **305**(2): p. C182-9.
1596. Gates, K.L., et al., *Hypercapnia impairs lung neutrophil function and increases mortality in murine pseudomonas pneumonia*. Am J Respir Cell Mol Biol, 2013. **49**(5): p. 821-8.
1597. Geng, X., et al., *Synergetic neuroprotection of normobaric oxygenation and ethanol in ischemic stroke through improved oxidative mechanism*. Stroke, 2013. **44**(5): p. 1418-1425.
1598. Geng, X., et al., *Reduced apoptosis by combining normobaric oxygenation with ethanol in transient ischemic stroke*. Brain Res, 2013. **1531**: p. 17-24.
1599. Gerez, J., et al., *In silico structural and functional characterization of the RSUME splice variants*. PLoS One, 2013. **8**(2): p. e57795.
1600. Ghatnekar, A., et al., *Endothelial GATA-6 deficiency promotes pulmonary arterial hypertension*. Am J Pathol, 2013. **182**(6): p. 2391-406.

1601. Ghosh, P., et al., *Biological safety assessment of mutant variant of Allium sativum leaf agglutinin (mASAL), a novel antifungal protein for future transgenic application*. J Agric Food Chem, 2013. **61**(48): p. 11858-64.
1602. Ghosh, S., et al., *Extracellular hemin crisis triggers acute chest syndrome in sickle mice*. J Clin Invest, 2013. **123**(11): p. 4809-20.
1603. Gordon, L., et al., *EMP2 regulates angiogenesis in endometrial cancer cells through induction of VEGF*. Oncogene, 2013. **32**(46): p. 5369-5376.
1604. Gortner, L., et al., *Bronchopulmonary dysplasia in a double-hit mouse model induced by intrauterine hypoxia and postnatal hyperoxia: closer to clinical features?* Ann Anat, 2013. **195**(4): p. 351-358.
1605. Graham, B.B., et al., *Transforming growth factor-beta signaling promotes pulmonary hypertension caused by Schistosoma mansoni*. Circulation, 2013. **128**(12): p. 1354-64.
1606. Grisafi, D., et al., *Human amniotic fluid stem cells protect rat lungs exposed to moderate hyperoxia*. Pediatr Pulmonol, 2013. **48**(11): p. 1070-80.
1607. Guo, X.L., et al., *ERK signaling mediates enhanced angiotensin II-induced rat aortic constriction following chronic intermittent hypoxia*. Chin Med J (Engl), 2013. **126**(17): p. 3251-8.
1608. Gutierrez, D.V., et al., *Intermittent hypoxia training after C2 hemisection modifies the expression of PTEN and mTOR*. Exp Neurol, 2013. **248**: p. 45-52.
1609. Hamilton, T.K., et al., *Potential therapeutic applications of phosphodiesterase inhibition in prostate cancer*. World J Urol, 2013. **31**(2): p. 325-30.
1610. Han, Q., et al., *Intermittent hypoxia-induced NF- κ B and HO-1 regulation in human endothelial EA. hy926 cells*. Cell biochemistry and biophysics, 2013. **66**(3): p. 431-441.
1611. Hein, M. and S. Graver, *Tumor cell response to bevacizumab single agent therapy in vitro*. Cancer Cell Int, 2013. **13**(1): p. 94.
1612. Herr, K.B., G.M. Stettner, and L. Kubin, *Metabolic effects of intermittent hypoxia in mice*. Am J Physiol Regul Integr Comp Physiol, 2013. **304**(7): p. R514-R522.
1613. Herr, K.B., G.M. Stettner, and L. Kubin, *Reduced c-Fos expression in medullary catecholaminergic neurons in rats 20 h after exposure to chronic intermittent hypoxia*. Am J Physiol Regul Integr Comp Physiol, 2013. **304**(7): p. R514-22.
1614. Hewing, N.J., et al., *Intravitreal injection of TIMP3 or the EGFR inhibitor erlotinib offers protection from oxygen-induced retinopathy in mice*. Invest Ophthalmol Vis Sci, 2013. **54**(1): p. 864-70.
1615. Heylman, C.M., et al., *Slowing the Onset of Hypoxia Increases Colony Forming Efficiency of Connective Tissue Progenitor Cells In Vitro*. J Regen Med Tissue Eng, 2013. **2**.
1616. Hofmann, J., et al., *Ratiometric luminescence 2D in vivo imaging and monitoring of mouse skin oxygenation*. Methods Appl Fluoresc, 2013. **1**(4): p. 045002.
1617. Holm, J.B., R. Grygorczyk, and I.H. Lambert, *Volume-sensitive release of organic osmolytes in the human lung epithelial cell line A549: role of the 5-lipoxygenase*. Am J Physiol Cell Physiol, 2013. **305**(1): p. C48-60.
1618. Hsieh, I.S., et al., *Upregulation of drug transporter expression by osteopontin in prostate cancer cells*. Mol Pharmacol, 2013. **83**(5): p. 968-77.

1619. Hsu, C.S., et al., *Response to stress in early tumor colonization modulates switching of CD133-positive and CD133-negative subpopulations in a human metastatic colon cancer cell line, SW620*. PLoS One, 2013. **8**(4): p. e61133.
1620. Huppertz, N.D., et al., *Characterization of urinary bladder function in Göttingen Minipigs (GM) monitored by radiotelemetric natural filling cystometry (CM): Non-micturition-associated (NM) and micturition-associated (MI) detrusor events*. The Journal of Urology, 2013. **189**(4S).
1621. Ibe, J.C.F., et al., *Adenosine Monophosphate–Activated Protein Kinase Is Required for Pulmonary Artery Smooth Muscle Cell Survival and the Development of Hypoxic Pulmonary Hypertension*. American journal of respiratory cell and molecular biology, 2013. **49**(4): p. 609-618.
1622. Israelsen, W.J., et al., *PKM2 isoform-specific deletion reveals a differential requirement for pyruvate kinase in tumor cells*. Cell, 2013. **155**(2): p. 397-409.
1623. Ito, T., et al., *Girdin and its phosphorylation dynamically regulate neonatal vascular development and pathological neovascularization in the retina*. Am J Pathol, 2013. **182**(2): p. 586-96.
1624. Jaeger, A.A., et al., *Microfabricated polymeric vessel mimetics for 3-D cancer cell culture*. Biomaterials, 2013. **34**(33): p. 8301-13.
1625. Jaussaud, J., et al., *Hypoxia-preconditioned mesenchymal stromal cells improve cardiac function in a swine model of chronic myocardial ischaemia*. Eur J Cardiothorac Surg, 2013. **43**(5): p. 1050-7.
1626. Kameda, S.R., et al., *Opposite effects of neonatal hypoxia on acute amphetamine-induced hyperlocomotion in adult and adolescent mice*. Psychiatry Res, 2013. **208**(1): p. 74-7.
1627. Kan, C.-Y., et al., *Up-regulation of Survivin during Immortalization of Human Myofibroblasts Is Linked to Repression of Tumor Suppressor p16INK4a Protein and Confers Resistance to Oxidative Stress*. Journal of Biological Chemistry, 2013. **288**(17): p. 12032-12041.
1628. Kang, B.Y., et al., *Hypoxia mediates mutual repression between microRNA-27a and PPARgamma in the pulmonary vasculature*. PLoS One, 2013. **8**(11): p. e79503.
1629. Kawedia, J.D., et al., *Hypoxia and hypoxia mimetics decrease aquaporin 5 (AQP5) expression through both hypoxia inducible factor-1alpha and proteasome-mediated pathways*. PloS one, 2013. **8**(3): p. e57541.
1630. Keenaghan, M., et al., *Response of vascular endothelial growth factor and angiogenesis-related genes to stepwise increases in inspired oxygen in neonatal rat lungs*. Pediatr Res, 2013. **73**(5): p. 630-8.
1631. Kim, E.J., et al., *Response of bone marrow derived connective tissue progenitor cell morphology and proliferation on geometrically modulated microtextured substrates*. Biomed Microdevices, 2013. **15**(3): p. 385-96.
1632. Kim, I., et al., *Perinatal hyperoxia exposure impairs hypoxia-induced depolarization in rat carotid body glomus cells*. Respir Physiol Neurobiol, 2013. **188**(1): p. 9-14.
1633. Kim, J. and T. Ma, *Endogenous extracellular matrices enhance human mesenchymal stem cell aggregate formation and survival*. Biotechnol Prog, 2013. **29**(2): p. 441-51.

1634. Kim, J. and T. Ma, *Autocrine fibroblast growth factor 2-mediated interactions between human mesenchymal stem cells and the extracellular matrix under varying oxygen tension*. Journal of cellular biochemistry, 2013. **114**(3): p. 716-727.
1635. King, T.L., et al., *Acute systemic hypoxia activates hypothalamic paraventricular nucleus-projecting catecholaminergic neurons in the caudal ventrolateral medulla*. Am J Physiol Regul Integr Comp Physiol, 2013. **305**(10): p. R1112-23.
1636. Klein, O.D., et al., *The society of craniofacial genetics and developmental biology 35th annual meeting*. American Journal of Medical Genetics Part A, 2013. **161**(12): p. 2938-2952.
1637. Köhler, S.E., et al., *Characterization of the inflammatory and metabolic*. J Appl Physiol, 2013. **114**: p. 1619-1628.
1638. Kommuguri, U.N., S. Bodiga, and V.L. Bodiga, *Role of mitochondrial respiration in sensitization of copper-deficient yeast to cisplatin-induced cytotoxicity*. Frontiers in Life Science, 2013. **7**(3-4): p. 210-217.
1639. Konsavage, W.M., et al., *Hyperoxia-induced alterations in the pulmonary proteome of juvenile rats*. Exp Lung Res, 2013. **39**(2): p. 107-17.
1640. Krause, B.J., et al., *Endothelial eNOS/arginase imbalance contributes to vascular dysfunction in IUGR umbilical and placental vessels*. Placenta, 2013. **34**(1): p. 20-8.
1641. Krishnappa, V., S.V. Boregowda, and D.G. Phinney, *The peculiar biology of mouse mesenchymal stromal cells--oxygen is the key*. Cytotherapy, 2013. **15**(5): p. 536-41.
1642. Lai, A.Y., et al., *Distinct activation profiles in microglia of different ages: a systematic study in isolated embryonic to aged microglial cultures*. Neuroscience, 2013. **254**: p. 185-95.
1643. Lai, W.H., et al., *Attenuation of hind-limb ischemia in mice with endothelial-like cells derived from different sources of human stem cells*. PLoS One, 2013. **8**(3): p. e57876.
1644. Lee, H.-S., *Effect of short-term exposure of different concentrations of hyperoxia on fetal alveolar type II cell death*. Neonatal Medicine, 2013. **20**(2): p. 199-206.
1645. Lee, H.S. and C.K. Kim, *Interleukin-10 down-regulates cathepsin B expression in fetal rat alveolar type II cells exposed to hyperoxia*. Yonsei Med J, 2013. **54**(2): p. 445-52.
1646. Lee, J., et al., *Angiopoietin-1 guides directional angiogenesis through integrin $\alpha v \beta 5$ signaling for recovery of ischemic retinopathy*. Science translational medicine, 2013. **5**(203): p. 203ra127-203ra127.
1647. Leijten, J.C., et al., *GREM1, FRZB and DKK1 mRNA levels correlate with osteoarthritis and are regulated by osteoarthritis-associated factors*. Arthritis Res Ther, 2013. **15**(5): p. R126.
1648. Leucker, T.M., et al., *Impairment of endothelial-myocardial interaction increases the susceptibility of cardiomyocytes to ischemia/reperfusion injury*. PLoS One, 2013. **8**(7): p. e70088.
1649. Li, H., et al., *Influence of hypoxia in the intervertebral disc on the biological behaviors of rat adipose-and nucleus pulposus-derived mesenchymal stem cells*. Cells Tissues Organs, 2013. **198**(4): p. 266-277.

1650. Cao, X., et al., *A new approach to screening cancer stem cells from the U251 human glioma cell line based on cell growth state*. *Oncol Rep*, 2013. **29**(3): p. 1013-8.
1651. Li, X., et al., *NOD2 deficiency protects against cardiac remodeling after myocardial infarction in mice*. *Cell Physiol Biochem*, 2013. **32**(6): p. 1857-66.
1652. Lin, C., et al., *Silibinin inhibits VEGF secretion and age-related macular degeneration in a hypoxia-dependent manner through the PI-3 kinase/Akt/mTOR pathway*. *British journal of pharmacology*, 2013. **168**(4): p. 920-931.
1653. Lirdprapamongkol, K., et al., *A flavonoid chrysin suppresses hypoxic survival and metastatic growth of mouse breast cancer cells*. *Oncol Rep*, 2013. **30**(5): p. 2357-64.
1654. Liu, F.J., et al., *microRNAs Involved in Regulating Spontaneous Recovery in Embolic Stroke Model*. *PLoS One*, 2013. **8**(6): p. e66393.
1655. Liu, J., et al., *Notch1 is a 5-fluorouracil resistant and poor survival marker in human esophagus squamous cell carcinomas*. *PloS one*, 2013. **8**(2): p. e56141.
1656. Lu, C., et al., *The role of oxygen during fracture healing*. *Bone*, 2013. **52**(1): p. 220-9.
1657. Lu, Q., et al., *Ca (2)(+)/calmodulin-dependent protein kinase II contributes to hypoxic ischemic cell death in neonatal hippocampal slice cultures*. *PloS one*, 2013. **8**: p. e70750.
1658. Lu, X., et al., *Hypoxia downregulates PPAR γ via an ERK1/2–NF- κ B–Nox4-dependent mechanism in human pulmonary artery smooth muscle cells*. *Free Radical Biology and Medicine*, 2013. **63**: p. 151-160.
1659. Lu, Y., et al., *Synergistic regulation of hyphal elongation by hypoxia, CO(2), and nutrient conditions controls the virulence of Candida albicans*. *Cell Host Microbe*, 2013. **14**(5): p. 499-509.
1660. Luo, J., et al., *TCF7L2 variation and proliferative diabetic retinopathy*. *Diabetes*, 2013. **62**(7): p. 2613-7.
1661. Manley, E., Jr. and D.J. Waxman, *Impact of tumor blood flow modulation on tumor sensitivity to the bioreductive drug banoxantrone*. *J Pharmacol Exp Ther*, 2013. **344**(2): p. 368-77.
1662. Mao, X., et al., *N-acetylcysteine and allopurinol confer synergy in attenuating myocardial ischemia injury via restoring HIF-1 α /HO-1 signaling in diabetic rats*. *PLoS One*, 2013. **8**(7): p. e68949.
1663. Markway, B.D., H. Cho, and B. Johnstone, *Hypoxia promotes redifferentiation and suppresses markers of hypertrophy and degeneration in both healthy and osteoarthritic chondrocytes*. *Arthritis research & therapy*, 2013. **15**(4): p. R92.
1664. Marwick, J.A., et al., *Oxygen levels determine the ability of glucocorticoids to influence neutrophil survival in inflammatory environments*. *J Leukoc Biol*, 2013. **94**(6): p. 1285-92.
1665. Matoba, K., et al., *Rho-kinase inhibition prevents the progression of diabetic nephropathy by downregulating hypoxia-inducible factor 1 α* . *Kidney international*, 2013. **84**(3): p. 545-554.

1666. McCloskey, M., et al., *Knockdown of Mueller cell specific VEGF reduces retinal neovascularization in a rat model of retinopathy of prematurity (ROP)*. Investigative Ophthalmology & Visual Science, 2013. **54**(15): p. 621-621.
1667. McCloskey, M., et al., *Anti-VEGF antibody leads to later atypical intravitreal neovascularization and activation of angiogenic pathways in a rat model of retinopathy of prematurity*. Invest Ophthalmol Vis Sci, 2013. **54**(3): p. 2020-6.
1668. Mendel, T.A., et al., *Pericytes derived from adipose-derived stem cells protect against retinal vasculopathy*. PLoS One, 2013. **8**(5): p. e65691.
1669. Mezu-Ndubuisi, O.J., et al., *In vivo retinal vascular oxygen tension imaging and fluorescein angiography in the mouse model of oxygen-induced retinopathy*. Invest Ophthalmol Vis Sci, 2013. **54**(10): p. 6968-72.
1670. Miyake, M., et al., *Erythropoietin is a JAK2 and ERK1/2 effector that can promote renal tumor cell proliferation under hypoxic conditions*. J Hematol Oncol, 2013. **6**(1): p. 65.
1671. Mizrahi, O., et al., *Nucleus pulposus degeneration alters properties of resident progenitor cells*. Spine J, 2013. **13**(7): p. 803-14.
1672. Morken, T.S., et al., *Brain development after neonatal intermittent hyperoxia-hypoxia in the rat studied by longitudinal MRI and immunohistochemistry*. PLoS One, 2013. **8**(12): p. e84109.
1673. Mouraret, N., et al., *Activation of lung p53 by Nutlin-3a prevents and reverses experimental pulmonary hypertension*. Circulation, 2013. **127**(16): p. 1664-76.
1674. Nair, D., et al., *Growth hormone releasing hormone (GHRH) signaling modulates intermittent hypoxia-induced oxidative stress and cognitive deficits in mouse*. J Neurochem, 2013. **127**(4): p. 531-40.
1675. Nakamura, S., et al., *Mild endoplasmic reticulum stress promotes retinal neovascularization via induction of BiP/GRP78*. PLoS One, 2013. **8**(3): p. e60517.
1676. Natoli, R., et al., *670nm Photobiomodulation as a Novel Protection against Retinopathy of Prematurity: Evidence from Oxygen Induced Retinopathy Models*. PloS one, 2013. **8**(8): p. e72135.
1677. Nedungadi, T.P., M. Bachelor, and J.T. Cunningham, *Intermittent hypoxia in vitro reduces TRPC4 and neuropeptide expression in 4B cells*. The FASEB Journal, 2013. **27**(1_MeetingAbstracts): p. 699.17.
1678. Ni, J., et al., *The role of RhoA and cytoskeleton in myofibroblast transformation in hyperoxic lung fibrosis*. Free Radic Biol Med, 2013. **61**: p. 26-39.
1679. Orabi, H., et al., *Tissue engineering of urinary bladder and urethra: advances from bench to patients*. ScientificWorldJournal, 2013. **2013**: p. 154564.
1680. Palumbo, S., T.-L. Tsai, and W.-J. Li, *Macrophage Migration Inhibitory Factor Regulates AKT Signaling in Hypoxic Culture to Modulate Senescence of Human Mesenchymal Stem Cells*. Stem cells and development, 2013. **23**(8): p. 852-865.
1681. Park, S., et al., *Endoglin regulates the activation and quiescence of endothelium by participating in canonical and non-canonical TGF-beta signaling pathways*. J Cell Sci, 2013. **126**(Pt 6): p. 1392-405.

1682. Parker, E., et al., *Low oxygen tension increased fibronectin fragment induced catabolic activities--response prevented with biomechanical signals*. Arthritis Res Ther, 2013. **15**(5): p. R163.
1683. Patel, V.S., et al., *High Mobility Group Box-1 Mediates Hyperoxia-Induced Impairment of Pseudomonas aeruginosa Clearance and Inflammatory Lung Injury in Mice*. American journal of respiratory cell and molecular biology, 2013. **48**(3): p. 280-287.
1684. Pattappa, G., et al., *Continuous and uninterrupted oxygen tension influences the colony formation and oxidative metabolism of human mesenchymal stem cells*. Tissue Eng Part C Methods, 2013. **19**(1): p. 68-79.
1685. Phinney, D.G., et al., *MSCs: science and trials*. Nat Med, 2013. **19**(7): p. 812.
1686. Phinney, D.G. and L. Sensebe, *Mesenchymal stromal cells: misconceptions and evolving concepts*. Cytotherapy, 2013. **15**(2): p. 140-5.
1687. Pierro, M., et al., *Short-term, long-term and paracrine effect of human umbilical cord-derived stem cells in lung injury prevention and repair in experimental bronchopulmonary dysplasia*. Thorax, 2013. **68**(5): p. 475-84.
1688. Popescu, C.R., et al., *Hyperoxia Exposure Impairs Nephrogenesis in the Neonatal Rat: Role of HIF-1 α* . PloS one, 2013. **8**(12): p. e82421.
1689. Porter, K.M., et al., *Human immunodeficiency virus-1 transgene expression increases pulmonary vascular resistance and exacerbates hypoxia-induced pulmonary hypertension development*. Pulm Circ, 2013. **3**(1): p. 58-67.
1690. Portwood, S., et al., *Activity of the hypoxia-activated prodrug, TH-302, in preclinical human acute myeloid leukemia models*. Clin Cancer Res, 2013. **19**(23): p. 6506-19.
1691. Porzionato, A., et al., *Cyclosporine and hyperoxia-induced lung damage in neonatal rats*. Respir Physiol Neurobiol, 2013. **187**(1): p. 41-6.
1692. Price, M., L. Heilbrun, and D. Kessel, *Effects of the oxygenation level on formation of different reactive oxygen species during photodynamic therapy*. Photochem Photobiol, 2013. **89**(3): p. 683-6.
1693. Pyo, S.-J., et al., *Low-level laser therapy induces the expressions of BMP-2, osteocalcin, and TGF- β 1 in hypoxic-cultured human osteoblasts*. Lasers in medical science, 2013. **28**(2): p. 543-550.
1694. Radom-Aizik, S., et al., *Growth inhibition and compensation in response to neonatal hypoxia in rats*. Pediatr Res, 2013. **74**(2): p. 111-20.
1695. Rafikova, O., et al., *Bosentan inhibits oxidative and nitrosative stress and rescues occlusive pulmonaryhypertension*. Free Radical Biology and Medicine, 2013. **56**: p. 28-43.
1696. Ranasinghe, W., et al., *The role of hypoxia-inducible factor 1 α in determining the properties of castrate-resistant prostate cancers*. PloS one, 2013. **8**(1): p. e54251.
1697. Ravi, Y., et al., *Dysregulation of PTEN in cardiopulmonary vascular remodeling induced by pulmonary hypertension*. Cell Biochem Biophys, 2013. **67**(2): p. 363-72.
1698. Ren, D., et al., *SR-A deficiency reduces myocardial ischemia/reperfusion injury; involvement of increased microRNA-125b expression in macrophages*. Biochim Biophys Acta, 2013. **1832**(2): p. 336-46.

1699. Rentea, R.M., et al., *Enteral intestinal alkaline phosphatase administration in newborns decreases iNOS expression in a neonatal necrotizing enterocolitis rat model*. J Pediatr Surg, 2013. **48**(1): p. 124-8.
1700. Riggle, K.M., et al., *Intestinal alkaline phosphatase prevents the systemic inflammatory response associated with necrotizing enterocolitis*. J Surg Res, 2013. **180**(1): p. 21-6.
1701. Rodrigues, M., et al., *Surface tethered epidermal growth factor protects proliferating and differentiating multipotential stromal cells from FasL-induced apoptosis*. Stem Cells, 2013. **31**(1): p. 104-16.
1702. Rodriguez, M., et al., *Worms under stress: C. elegans stress response and its relevance to complex human disease and aging*. Trends Genet, 2013. **29**(6): p. 367-74.
1703. Rosenberg, J.T., et al., *Magnetic resonance contrast and biological effects of intracellular superparamagnetic iron oxides on human mesenchymal stem cells with long-term culture and hypoxic exposure*. Cytotherapy, 2013. **15**(3): p. 307-22.
1704. Ryou, M.G., et al., *Pyruvate minimizes rtPA toxicity from in vitro oxygen-glucose deprivation and reoxygenation*. Brain Res, 2013. **1530**: p. 66-75.
1705. Salomon, C., et al., *Hypoxia-induced changes in the bioactivity of cytotrophoblast-derived exosomes*. PLoS One, 2013. **8**(11): p. e79636.
1706. Salomon, C., et al., *Exosomal signaling during hypoxia mediates microvascular endothelial cell migration and vasculogenesis*. PLoS One, 2013. **8**(7): p. e68451.
1707. Santos, E., et al., *Therapeutic cell encapsulation: ten steps towards clinical translation*. J Control Release, 2013. **170**(1): p. 1-14.
1708. Saxena, S., et al., *Generation of murine sympathoadrenergic progenitor-like cells from embryonic stem cells and postnatal adrenal glands*. PLoS One, 2013. **8**(5): p. e64454.
1709. Schaafhausen, M.K., et al., *Tumor angiogenesis is caused by single melanoma cells in a manner dependent on reactive oxygen species and NF- κ B*. Journal of cell science, 2013. **126**(17): p. 3862-3872.
1710. Schrobback, K., et al., *Stage-specific embryonic antigen-4 is not a marker for chondrogenic and osteogenic potential in cultured chondrocytes and mesenchymal progenitor cells*. Tissue Engineering Part A, 2013. **19**(11-12): p. 1316-1326.
1711. Sen, A., et al., *MicroRNA-138 regulates hypoxia-induced endothelial cell dysfunction by targeting S100A1*. PLoS One, 2013. **8**(11): p. e78684.
1712. Serrano-Saiz, E., et al., *Modular control of glutamatergic neuronal identity in C. elegans by distinct homeodomain proteins*. Cell, 2013. **155**(3): p. 659-73.
1713. Shafy, A., et al., *Development of cardiac support bioprostheses for ventricular restoration and myocardial regeneration*. Eur J Cardiothorac Surg, 2013. **43**(6): p. 1211-9.
1714. Shang, J., et al., *Ang II type 1 receptor expression in rat aorta exposed to chronic intermittent hypoxia: effects of p38MAPK and ERK1/2 signaling*. Chin Med J (Engl), 2013. **126**(17): p. 3264-9.

1715. Shepardson, K.M., et al., *Hypoxia enhances innate immune activation to *Aspergillus fumigatus* through cell wall modulation*. Microbes and Infection, 2013. **15**(4): p. 259-269.
1716. Smith, F., et al., *The effect of hypoxia on facial shape variation and disease phenotypes in chicken embryos*. Dis Model Mech, 2013. **6**(4): p. 915-24.
1717. Sun, W., et al., *Intermittent Hypoxia-Induced Renal Antioxidants and Oxidative Damage in Male Mice: Hormetic Dose Response*. Dose-Response, 2013. **11**(3): p. 385-400.
1718. Sweet, R.L. and J.A. Zastre, *HIF1- α -Mediated Gene Expression Induced by Vitamin B 1 Deficiency*. International Journal for Vitamin and Nutrition Research, 2013. **83**(3): p. 188-197.
1719. Tache, V., et al., *Hypoxia and trophoblast differentiation: a key role for PPAR γ* . Stem cells and development, 2013. **22**(21): p. 2815-2824.
1720. Tan, C.Y. and T. Hagen, *Destabilization of CDC6 upon DNA damage is dependent on neddylation but independent of Cullin E3 ligases*. The international journal of biochemistry & cell biology, 2013. **45**(7): p. 1489-1498.
1721. Tan, C.Y. and T. Hagen, *Post-translational regulation of mTOR complex 1 in hypoxia and reoxygenation*. Cell Signal, 2013. **25**(5): p. 1235-44.
1722. Tan, S., et al., *Mycobacterium tuberculosis responds to chloride and pH as synergistic cues to the immune status of its host cell*. PLoS pathog, 2013. **9**(4): p. e1003282.
1723. Tan, X., X. Guo, and H. Liu, *Melatonin attenuates hippocampal neuron apoptosis and oxidative stress during chronic intermittent hypoxia via up-regulating B-cell lymphoma-2 and down-regulating B-cell lymphoma-2-associated X protein*. Saudi Med J, 2013. **34**(7): p. 701-8.
1724. Tang, Z., L.M. Araysi, and H.M. Fathallah-Shaykh, *c-Src and neural Wiskott-Aldrich syndrome protein (N-WASP) promote low oxygen-induced accelerated brain invasion by gliomas*. PLoS One, 2013. **8**(9): p. e75436.
1725. Thompson, E.M., et al., *The effect of alpha-v integrin inhibition on the malignant characteristics of medulloblastoma*. J Neurosurg Pediatr, 2013. **11**(1): p. 60-7.
1726. Thompson, E.M., et al., *Inhibiting α v Integrins Decreases the Malignant Characteristics of Medulloblastoma*. Journal of neurosurgery. Pediatrics, 2013. **11**(1): p. 60.
1727. Tian, X., et al., *Effect of delta-opioid receptor activation on BDNF-TrkB vs. TNF- α in the mouse cortex exposed to prolonged hypoxia*. Int J Mol Sci, 2013. **14**(8): p. 15959-76.
1728. Tibboel, J., et al., *Amelioration of hyperoxia-induced lung injury using a sphingolipid-based intervention*. European Respiratory Journal, 2013. **42**(3): p. 776-784.
1729. Trichonas, G., et al., *Prolyl hydroxylase inhibition during hyperoxia prevents oxygen-induced retinopathy in the rat 50/10 model*. Invest Ophthalmol Vis Sci, 2013. **54**(7): p. 4919-26.
1730. Tsai, I.L., et al., *Metabolomic Dynamic Analysis of Hypoxia in MDA-MB-231 and the Comparison with Inferred Metabolites from Transcriptomics Data*. Cancers (Basel), 2013. **5**(2): p. 491-510.

1731. Tse, A.C., et al., *A rapid screening test for endocrine disrupting chemicals using primary cell culture of the marine medaka*. Aquatic Toxicology, 2013. **144**: p. 50-58.
1732. Tucker, B.A., et al., *Patient-specific iPSC-derived photoreceptor precursor cells as a means to investigate retinitis pigmentosa*. Elife, 2013. **2**: p. e00824.
1733. Tuomela, J., et al., *Chloroquine has tumor-inhibitory and tumor-promoting effects in triple-negative breast cancer*. Oncology letters, 2013. **6**(6): p. 1665-1672.
1734. Uluc, K., et al., *TrkB receptor agonist 7, 8 dihydroxyflavone triggers profound gender- dependent neuroprotection in mice after perinatal hypoxia and ischemia*. CNS Neurol Disord Drug Targets, 2013. **12**(3): p. 360-70.
1735. Urao, N. and M. Ushio-Fukai, *Redox regulation of stem/progenitor cells and bone marrow niche*. Free Radic Biol Med, 2013. **54**: p. 26-39.
1736. Vadivel, A., et al., *The axonal guidance cue semaphorin 3C contributes to alveolar growth and repair*. PLoS One, 2013. **8**(6): p. e67225.
1737. van den Borst, B., et al., *Characterization of the inflammatory and metabolic profile of adipose tissue in a mouse model of chronic hypoxia*. J Appl Physiol (1985), 2013. **114**(11): p. 1619-28.
1738. Vavilala, D.T., et al., *Honokiol inhibits pathological retinal neovascularization in oxygen-induced retinopathy mouse model*. Biochem Biophys Res Commun, 2013. **438**(4): p. 697-702.
1739. Veasey, S.C., et al., *Long-term intermittent hypoxia elevates cobalt levels in the brain and injures white matter in adult mice*. Sleep, 2013. **36**(10): p. 1471-81.
1740. Wang, H., et al., *Short hairpin RNA-mediated knockdown of VEGFA in Muller cells reduces intravitreal neovascularization in a rat model of retinopathy of prematurity*. Am J Pathol, 2013. **183**(3): p. 964-74.
1741. Wang, J., et al., *Effects of endothelial progenitor cell-derived microvesicles on hypoxia/reoxygenation-induced endothelial dysfunction and apoptosis*. Oxid Med Cell Longev, 2013. **2013**: p. 572729.
1742. Wang, X., et al., *Increased expression of microRNA-146a decreases myocardial ischaemia/reperfusion injury*. Cardiovasc Res, 2013. **97**(3): p. 432-42.
1743. Ward, C.L., et al., *Oxygen generating biomaterials preserve skeletal muscle homeostasis under hypoxic and ischemic conditions*. PLoS One, 2013. **8**(8): p. e72485.
1744. Wei, N., et al., *Delayed intranasal delivery of hypoxic-preconditioned bone marrow mesenchymal stem cells enhanced cell homing and therapeutic benefits after ischemic stroke in mice*. Cell Transplant, 2013. **22**(6): p. 977-91.
1745. Weichert, U., et al., *Prevention of hyperoxia-mediated pulmonary inflammation in neonatal rats by caffeine*. Eur Respir J, 2013. **41**(4): p. 966-73.
1746. Wu, C., et al., *Opposing influence of intracellular and membrane thiols on the toxicity of reducible polycations*. Biomaterials, 2013. **34**(34): p. 8843-50.
1747. Xi, H., et al., *Endoplasmic reticulum stress induced by 2-deoxyglucose but not glucose starvation activates AMPK through CaMKK β leading to autophagy*. Biochemical pharmacology, 2013. **85**(10): p. 1463-1477.

1748. Yamamoto, K., et al., *Resetting of the sympathetic baroreflex is associated with the onset of hypertension during chronic intermittent hypoxia*. Autonomic Neuroscience, 2013. **173**(1): p. 22-27.
1749. Yen, L.C., et al., *Neurovirulent flavivirus can be attenuated in mice by incorporation of neuron-specific microRNA recognition elements into viral genome*. Vaccine, 2013. **31**(49): p. 5915-22.
1750. Yoo, H.Y. and S.J. Kim, *Disappearance of hypoxic pulmonary vasoconstriction and o₂-sensitive nonselective cationic current in arterial myocytes of rats under ambient hypoxia*. Korean J Physiol Pharmacol, 2013. **17**(5): p. 463-8.
1751. Yu, L.-X., et al., *The Notch1/cyclooxygenase-2/Snail/E-cadherin pathway is associated with hypoxia-induced hepatocellular carcinoma cell invasion and migration*. Oncology reports, 2013. **29**(1): p. 362-370.
1752. Yzydorczyk, C., et al., *Developmental programming of eNOS uncoupling and enhanced vascular oxidative stress in adult rats after transient neonatal oxygen exposure*. J Cardiovasc Pharmacol, 2013. **61**(1): p. 8-16.
1753. Zara, S., et al., *NF- κ B involvement in hyperoxia-induced myocardial damage in newborn rat hearts*. Histochemistry and cell biology, 2013. **140**(5): p. 575-583.
1754. Zhang, N., et al., *The Rat With Oxygen-Induced Retinopathy Is Myopic With Low Retinal Dopamine*. Investigative ophthalmology & visual science, 2013. **54**(13): p. 8275-8284.
1755. Zhang, S., et al., *Distinct post-transcriptional regulation of Igfbp1 gene by hypoxia in lowland mouse and Qinghai-Tibet plateau root vole *Microtus oeconomus**. Mol Cell Endocrinol, 2013. **376**(1-2): p. 33-42.
1756. Abbasi, A., et al., *Myocardial macronutrient transporter adaptations in the adult pregestational female intrauterine and postnatal growth-restricted offspring*. Am J Physiol Endocrinol Metab, 2012. **302**(11): p. E1352-62.
1757. Abdel-Wahab, B.A. and S.M. Abd El-Aziz, *Ginkgo biloba protects against intermittent hypoxia-induced memory deficits and hippocampal DNA damage in rats*. Phytomedicine, 2012. **19**(5): p. 444-50.
1758. Abid, S., et al., *Inhibition of gut- and lung-derived serotonin attenuates pulmonary hypertension in mice*. Am J Physiol Lung Cell Mol Physiol, 2012. **303**(6): p. L500-8.
1759. Ahmed, M.N., et al., *Extracellular superoxide dismutase overexpression can reverse the course of hypoxia-induced pulmonary hypertension*. Molecular Medicine, 2012. **18**(1): p. 38.
1760. Akeel, S., et al., *Recombinant bone morphogenetic protein-2 induces up-regulation of vascular endothelial growth factor and interleukin 6 in human pre-osteoblasts: role of reactive oxygen species*. Arch Oral Biol, 2012. **57**(5): p. 445-52.
1761. Almado, C.E., B.H. Machado, and R.M. Leao, *Chronic intermittent hypoxia depresses afferent neurotransmission in NTS neurons by a reduction in the number of active synapses*. J Neurosci, 2012. **32**(47): p. 16736-46.
1762. An, X., et al., *Endothelial Cells Require Related Transcription Enhancer Factor-1 for Cell-Cell Connections Through the Induction of Gap Junction Proteins*. Arteriosclerosis, thrombosis, and vascular biology, 2012. **32**(8): p. 1951-1959.

1763. Azad, P., et al., *Identification of genes underlying hypoxia tolerance in Drosophila by a P-element screen*. G3 (Bethesda), 2012. **2**(10): p. 1169-78.
1764. Ball, K.A., et al., *Nitric oxide produced by cytochrome c oxidase helps stabilize HIF-1 α in hypoxic mammalian cells*. Biochemical and biophysical research communications, 2012. **420**(4): p. 727-732.
1765. Bao, Q., et al., *Mesenchymal stem cell-based tumor-targeted gene therapy in gastrointestinal cancer*. Stem Cells Dev, 2012. **21**(13): p. 2355-63.
1766. Barbosa, H., et al., *New insights into the mechanisms of embryonic stem cell self-renewal under hypoxia: a multifactorial analysis approach*. PloS one, 2012. **7**(6).
1767. Benderro, G.F., et al., *Decreased VEGF expression and microvascular density, but increased HIF-1 and 2 α accumulation and EPO expression in chronic moderate hyperoxia in the mouse brain*. Brain research, 2012. **1471**: p. 46-55.
1768. Bendix, I., et al., *Erythropoietin modulates autophagy signaling in the developing rat brain in an in vivo model of oxygen-toxicity*. Int J Mol Sci, 2012. **13**(10): p. 12939-51.
1769. Bendix, I., et al., *Hyperoxia changes the balance of the thioredoxin/peroxiredoxin system in the neonatal rat brain*. Brain Res, 2012. **1484**: p. 68-75.
1770. Boregowda, S.V., et al., *Atmospheric oxygen inhibits growth and differentiation of marrow-derived mouse mesenchymal stem cells via a p53-dependent mechanism: implications for long-term culture expansion*. Stem Cells, 2012. **30**(5): p. 975-87.
1771. Boregowda, S.V. and D.G. Phinney, *Therapeutic applications of mesenchymal stem cells: current outlook*. BioDrugs, 2012. **26**(4): p. 201-8.
1772. Boroujerdi, A., et al., *Chronic cerebral hypoxia promotes arteriogenic remodeling events that can be identified by reduced endoglin (CD105) expression and a switch in β 1 integrins*. Journal of Cerebral Blood Flow & Metabolism, 2012. **32**(9): p. 1820-1830.
1773. Bourgeaux, V., et al., *Efficacy of homologous inositol hexaphosphate-loaded red blood cells in sickle transgenic mice*. Br J Haematol, 2012. **157**(3): p. 357-69.
1774. Bozyk, P.D., et al., *Neonatal periostin knockout mice are protected from hyperoxia-induced alveolar simplification*. PloS one, 2012. **7**(2): p. e31336.
1775. Brehmer, F., et al., *Interaction of inflammation and hyperoxia in a rat model of neonatal white matter damage*. PLoS One, 2012. **7**(11): p. e49023.
1776. Cahill, E., et al., *The pathophysiological basis of chronic hypoxic pulmonary hypertension in the mouse: vasoconstrictor and structural mechanisms contribute equally*. Exp Physiol, 2012. **97**(6): p. 796-806.
1777. Carreras, A., et al., *Metabolic effects of intermittent hypoxia in mice: steady versus high-frequency applied hypoxia daily during the rest period*. Am J Physiol Regul Integr Comp Physiol, 2012. **303**(7): p. R700-9.
1778. Chai, T.F., et al., *A potential mechanism of metformin-mediated regulation of glucose homeostasis: inhibition of Thioredoxin-interacting protein (Txnip) gene expression*. Cell Signal, 2012. **24**(8): p. 1700-5.

1779. Charriaut-Marlangue, C., et al., *Inhaled nitric oxide reduces brain damage by collateral recruitment in a neonatal stroke model*. Stroke, 2012. **43**(11): p. 3078-84.
1780. Chintala, H., et al., *Connective tissue growth factor regulates retinal neovascularization through p53 protein-dependent transactivation of the matrix metalloproteinase (MMP)-2 gene*. Journal of Biological Chemistry, 2012. **287**(48): p. 40570-40585.
1781. Chiu, C.Z., B.W. Wang, and K.G. Shyu, *Use of atorvastatin to inhibit hypoxia-induced myocardin expression*. European journal of clinical investigation, 2012. **42**(5): p. 564-571.
1782. Chiu, G.S., et al., *Hypoxia/reoxygenation impairs memory formation via adenosine-dependent activation of caspase 1*. J Neurosci, 2012. **32**(40): p. 13945-55.
1783. Choi, J.-H., et al., *Effects of hypoxia inducible factors-1 α on autophagy and invasion of trophoblasts*. Clinical and experimental reproductive medicine, 2012. **39**(2): p. 73-80.
1784. Chou, C.W., et al., *Tumor cycling hypoxia induces chemoresistance in glioblastoma multiforme by upregulating the expression and function of ABCB1*. Neuro Oncol, 2012. **14**(10): p. 1227-38.
1785. Chou, H.C., et al., *Angiotensin II type 1 receptor antagonist attenuates lung fibrosis in hyperoxia-exposed newborn rats*. J Pharmacol Exp Ther, 2012. **340**(1): p. 169-75.
1786. Christou, H., et al., *Improved pulmonary vascular reactivity and decreased hypertrophic remodeling during nonhypercapnic acidosis in experimental pulmonary hypertension*. Am J Physiol Lung Cell Mol Physiol, 2012. **302**(9): p. L875-90.
1787. Chui, T.Y., et al., *Refractive Development in the "ROP Rat"*. J Ophthalmol, 2012. **2012**: p. 956705.
1788. Cochemé, H.M., et al., *Using the mitochondria-targeted ratiometric mass spectrometry probe MitoB to measure H₂O₂ in living Drosophila*. Nature protocols, 2012. **7**(5): p. 946-958.
1789. Contreras, M., et al., *Hypercapnic acidosis attenuates ventilation-induced lung injury by a nuclear factor- κ B-dependent mechanism*. Critical care medicine, 2012. **40**(9): p. 2622-2630.
1790. Cook, C.C., et al., *Consumption of oxygen: a mitochondrial-generated progression signal of advanced cancer*. Cell Death Dis, 2012. **3**(1): p. e258.
1791. Costa-Silva, J.H., D.B. Zoccal, and B.H. Machado, *Chronic intermittent hypoxia alters glutamatergic control of sympathetic and respiratory activities in the commissural NTS of rats*. Am J Physiol Regul Integr Comp Physiol, 2012. **302**(6): p. R785-93.
1792. Criswell, K., et al., *Pregabalin Induces Hepatic Hypoxia and Increases Endothelial Cell Proliferation in Mice which Attenuated by Dietary Vitamin E Supplementation*. Toxicological Sciences, 2012: p. kfs148.
1793. D'Souza, A., et al., *Cytokines and Toll-like receptor signaling pathways in the terminal ileum of hypoxic/hyperoxic neonatal rats: benefits of probiotics supplementation*. American journal of translational research, 2012. **4**(2): p. 187.

1794. Dayyat, E.A., et al., *Exogenous erythropoietin administration attenuates intermittent hypoxia-induced cognitive deficits in a murine model of sleep apnea*. BMC Neurosci, 2012. **13**(1): p. 77.
1795. de Jesus Perez, V.A., et al., *Loss of adenomatous poliposis coli- α 3 integrin interaction promotes endothelial apoptosis in mice and humans*. Circulation research, 2012. **111**(12): p. 1551-1564.
1796. De Meyer, S.F., et al., *Extracellular chromatin is an important mediator of ischemic stroke in mice*. Arteriosclerosis, thrombosis, and vascular biology, 2012. **32**(8): p. 1884-1891.
1797. DeNiro, M. and F.A. Al-Mohanna, *Zinc transporter 8 (ZnT8) expression is reduced by ischemic insults: a potential therapeutic target to prevent ischemic retinopathy*. PloS one, 2012. **7**(11): p. e50360.
1798. Detwiler, D.A., et al., *Polystyrene-coated micropallets for culture and separation of primary muscle cells*. Anal Bioanal Chem, 2012. **402**(3): p. 1083-91.
1799. Diaz, F., J.A. Enríquez, and C.T. Moraes, *Cells lacking Rieske iron-sulfur protein have a reactive oxygen species-associated decrease in respiratory complexes I and IV*. Molecular and cellular biology, 2012. **32**(2): p. 415-429.
1800. Dvorianchikova, G., et al., *Genetic ablation of Pannexin1 protects retinal neurons from ischemic injury*. PLoS One, 2012. **7**(2): p. e31991.
1801. Dyugovskaya, L., et al., *Bax/Mcl-1 balance affects neutrophil survival in intermittent hypoxia and obstructive sleep apnea: effects of p38MAPK and ERK1/2 signaling*. J Transl Med, 2012. **10**: p. 211.
1802. El-Mousleh, T., et al., *Exploring the potential of low doses carbon monoxide as therapy in pregnancy complications*. Med Gas Res, 2012. **2**(1): p. 4.
1803. Famulla, S., et al., *Differentiation of human adipocytes at physiological oxygen levels results in increased adiponectin secretion and isoproterenol-stimulated lipolysis*. Adipocyte, 2012. **1**(3): p. 132-181.
1804. Farrow, K.N., et al., *Brief hyperoxia increases mitochondrial oxidation and increases phosphodiesterase 5 activity in fetal pulmonary artery smooth muscle cells*. Antioxid Redox Signal, 2012. **17**(3): p. 460-70.
1805. Fenik, V.B., et al., *Glucoregulatory consequences and cardiorespiratory parameters in rats exposed to chronic–intermittent hypoxia: effects of the duration of exposure and losartan*. Frontiers in neurology, 2012. **3**.
1806. Fernandez-Gonzalez, A., et al., *Vasculoprotective effects of heme oxygenase-1 in a murine model of hyperoxia-induced bronchopulmonary dysplasia*. Am J Physiol Lung Cell Mol Physiol, 2012. **302**(8): p. L775-84.
1807. Fike, C.D., et al., *Prolonged hypoxia augments L-citrulline transport by system A in the newborn piglet pulmonary circulation*. Cardiovasc Res, 2012. **95**(3): p. 375-84.
1808. Foda, H. and J. Patel, *Hyperoxia Promotes Extracellular Matrix Metalloproteinase Inducer (emmprin) Upregulation In Airway Epithelial Cells*. Am J Respir Crit Care Med, 2012. **185**: p. A2124.
1809. Foda, H. and J. Patel, *Extracellular Matrix Metalloproteinase Inducer (emmprin) Upregulation By Hypoxia Partially Regulates Hypoxia-Inducible Factor-1 Alpha (hif-1 α) Release In Human Lung Epithelial Cells*. Am J Respir Crit Care Med, 2012. **185**: p. A2135.

1810. Foldager, C.B., et al., *Dermatan sulphate in methoxy polyethylene glycol-poly lactide-co-glycolic acid scaffolds upregulates fibronectin gene expression but has no effect on in vivo osteochondral repair*. International orthopaedics, 2012. **36**(7): p. 1507-1513.
1811. Fox, K., P.A. Tran, and N. Tran, *Recent advances in research applications of nanophase hydroxyapatite*. Chemphyschem, 2012. **13**(10): p. 2495-506.
1812. Foxler, D.E., et al., *The LIMD1 protein bridges an association between the prolyl hydroxylases and VHL to repress HIF-1 activity*. Nature cell biology, 2012. **14**(2): p. 201-208.
1813. Fraker, C.A., et al., *Optimization of perfluoro nano-scale emulsions: the importance of particle size for enhanced oxygen transfer in biomedical applications*. Colloids Surf B Biointerfaces, 2012. **98**: p. 26-35.
1814. Frohlich, J.D., et al., *Oxygen modulates the response of first-trimester trophoblasts to hyperglycemia*. Am J Pathol, 2012. **180**(1): p. 153-64.
1815. Fu, Z.J., et al., *Aldose Reductase Deficiency Reduced Vascular Changes in Neonatal Mouse Retina in Oxygen-Induced RetinopathyAR Deficiency Protects Retinal Vasculature in OIR*. Investigative ophthalmology & visual science, 2012. **53**(9): p. 5698-5712.
1816. Gamboa, J.L. and F.H. Andrade, *Muscle endurance and mitochondrial function after chronic normobaric hypoxia: contrast of respiratory and limb muscles*. Pflugers Arch, 2012. **463**(2): p. 327-38.
1817. Gattas-Asfura, K.M., C.A. Fraker, and C.L. Stabler, *Perfluorinated alginate for cellular encapsulation*. J Biomed Mater Res A, 2012. **100**(8): p. 1963-71.
1818. Gerace, E., et al., *Mild activation of poly (ADP-ribose) polymerase (PARP) is neuroprotective in rat hippocampal slice models of ischemic tolerance*. European Journal of Neuroscience, 2012. **36**(1): p. 1993-2005.
1819. Gharib, S.A., et al., *Intermittent hypoxia activates temporally coordinated transcriptional programs in visceral adipose tissue*. J Mol Med (Berl), 2012. **90**(4): p. 435-45.
1820. Gleixner, E., et al., *Testes-specific hemoglobins in Drosophila evolved by a combination of sub- and neofunctionalization after gene duplication*. BMC Evol Biol, 2012. **12**(1): p. 34.
1821. Gokey, T., T.T. Baird, Jr., and A.B. Guliaev, *Conformational dynamics of threonine 195 and the S1 subsite in functional trypsin variants*. J Mol Model, 2012. **18**(11): p. 4941-54.
1822. Gold, B., et al., *Nonsteroidal anti-inflammatory drug sensitizes Mycobacterium tuberculosis to endogenous and exogenous antimicrobials*. Proc Natl Acad Sci U S A, 2012. **109**(40): p. 16004-11.
1823. Grinnell, K., et al., *Heterogeneity in apoptotic responses of microvascular endothelial cells to oxidative stress*. J Cell Physiol, 2012. **227**(5): p. 1899-910.
1824. Gu, S., et al., *Optical coherence tomography captures rapid hemodynamic responses to acute hypoxia in the cardiovascular system of early embryos*. Dev Dyn, 2012. **241**(3): p. 534-44.
1825. Guo, J., et al., *17 β -Estradiol prevents cell death and mitochondrial dysfunction by an estrogen receptor-dependent mechanism in astrocytes after oxyge-*

- glucose deprivation/reperfusion*. Free Radical Biology and Medicine, 2012. **52**(11): p. 2151-2160.
1826. Gyabaa, K., et al., *Controlled regulation of erythropoietin by primary cultured renal cells for renal failure induced anemia*. J Urol, 2012. **188**(5): p. 2000-6.
1827. Haddad, D., et al., *A novel genetically modified oncolytic vaccinia virus in experimental models is effective against a wide range of human cancers*. Ann Surg Oncol, 2012. **19 Suppl 3**: p. S665-74.
1828. Haga, C.L. and D.G. Phinney, *MicroRNAs in the imprinted DLK1-DIO3 region repress the epithelial-to-mesenchymal transition by targeting the TWIST1 protein signaling network*. J Biol Chem, 2012. **287**(51): p. 42695-707.
1829. Hamidi, T., et al., *Nupr1-aurora kinase A pathway provides protection against metabolic stress-mediated autophagic-associated cell death*. Clin Cancer Res, 2012. **18**(19): p. 5234-46.
1830. Hammoud, M., et al., *Combination of low O₂ concentration and mesenchymal stromal cells during culture of cord blood CD34⁺ cells improves the maintenance and proliferative capacity of hematopoietic stem cells*. Journal of cellular physiology, 2012. **227**(6): p. 2750-2758.
1831. Hansmann, G., et al., *Mesenchymal stem cell-mediated reversal of bronchopulmonary dysplasia and associated pulmonary hypertension*. Pulm Circ, 2012. **2**(2): p. 170-81.
1832. Heather, L.C., et al., *Metabolic adaptation to chronic hypoxia in cardiac mitochondria*. Basic Res Cardiol, 2012. **107**(3): p. 268.
1833. Heinrichsen, E.T. and G.G. Haddad, *Role of high-fat diet in stress response of Drosophila*. PLoS One, 2012. **7**(8): p. e42587.
1834. Hildreth, R.L., et al., *Viral mitochondria-localized inhibitor of apoptosis (UL37 exon 1 protein) does not protect human neural precursor cells from human cytomegalovirus-induced cell death*. Journal of General Virology, 2012. **93**(Pt 11): p. 2436-2446.
1835. Hofmann, N.A., et al., *Oxygen sensing mesenchymal progenitors promote neo-vasculogenesis in a humanized mouse model in vivo*. PLoS One, 2012. **7**(9): p. e44468.
1836. Hofstetter, C.P., et al., *Protein phosphatase 2A mediates dormancy of glioblastoma multiforme-derived tumor stem-like cells during hypoxia*. PLoS One, 2012. **7**(1): p. e30059.
1837. Hollenbeck, S.T., et al., *Tissue engraftment of hypoxic-preconditioned adipose-derived stem cells improves flap viability*. Wound Repair Regen, 2012. **20**(6): p. 872-8.
1838. Hosny, N.A., D.A. Lee, and M.M. Knight, *Single photon counting fluorescence lifetime detection of pericellular oxygen concentrations*. J Biomed Opt, 2012. **17**(1): p. 016007.
1839. Hsieh, C.H., et al., *Imaging the impact of Nox4 in cycling hypoxia-mediated U87 glioblastoma invasion and infiltration*. Mol Imaging Biol, 2012. **14**(4): p. 489-99.
1840. Hsieh, C.H., et al., *NADPH oxidase subunit 4 mediates cycling hypoxia-promoted radiation resistance in glioblastoma multiforme*. Free Radic Biol Med, 2012. **53**(4): p. 649-58.

1841. Ikejiri, A., et al., *Dynamic regulation of Th17 differentiation by oxygen concentrations*. Int Immunol, 2012. **24**(3): p. 137-46.
1842. Ji, K. and S.E. Tsirka, *Inflammation modulates expression of laminin in the central nervous system following ischemic injury*. J Neuroinflammation, 2012. **9**(159): p. 159.
1843. Jing, D., et al., *Oxygen tension plays a critical role in the hematopoietic microenvironment in vitro*. Haematologica, 2012. **97**(3): p. 331-9.
1844. Johnson, P.L., et al., *Activation of the orexin 1 receptor is a critical component of CO₂-mediated anxiety and hypertension but not bradycardia*. Neuropsychopharmacology, 2012. **37**(8): p. 1911-1922.
1845. KABAYAMA, J., et al., *Effects of subconjunctival injection of anti-vascular endothelial growth factor antibody on oxygen-induced ischemic retinopathy in a neonatal rat model*. The Showa University Journal of Medical Sciences, 2012. **24**(1): p. 11-19.
1846. Kang, S.S., et al., *Loss of neuron-astroglial interaction rapidly induces protective CNTF expression after stroke in mice*. J Neurosci, 2012. **32**(27): p. 9277-87.
1847. Karlenius, T.C., et al., *Cycling hypoxia up-regulates thioredoxin levels in human MDA-MB-231 breast cancer cells*. Biochem Biophys Res Commun, 2012. **419**(2): p. 350-5.
1848. Karoor, V., et al., *Alveolar hypoxia promotes murine lung tumor growth through a VEGFR-2/EGFR-dependent mechanism*. Cancer Prevention Research, 2012. **5**(8): p. 1061-1071.
1849. Kaushal, N., V. Ramesh, and D. Gozal, *Human apolipoprotein E4 targeted replacement in mice reveals increased susceptibility to sleep disruption and intermittent hypoxia*. Am J Physiol Regul Integr Comp Physiol, 2012. **303**(1): p. R19-29.
1850. Kempster, S.L., et al., *Disruption of paraoxonase 3 impairs proliferation and antioxidant defenses in human A549 cells and causes embryonic lethality in mice*. Am J Physiol Endocrinol Metab, 2012. **302**(1): p. E103-7.
1851. Kim, S.J., et al., *Retinal proteome analysis in a mouse model of oxygen-induced retinopathy*. J Proteome Res, 2012. **11**(11): p. 5186-203.
1852. Kim, S.Y., et al., *Bortezomib alleviates experimental pulmonary arterial hypertension*. Am J Respir Cell Mol Biol, 2012. **47**(5): p. 698-708.
1853. King, T.L., et al., *Hypoxia activates nucleus tractus solitarius neurons projecting to the paraventricular nucleus of the hypothalamus*. Am J Physiol Regul Integr Comp Physiol, 2012. **302**(10): p. R1219-32.
1854. Konsavage, W.M., et al., *Hyperoxia-induced activation of the integrated stress response in the newborn rat lung*. Am J Physiol Lung Cell Mol Physiol, 2012. **302**(1): p. L27-35.
1855. Koulis, M., et al., *Contrasting dynamic responses in vivo of the Bcl-xL and Bim erythropoietic survival pathways*. Blood, 2012. **119**(5): p. 1228-39.
1856. Krause, B.J., et al., *Role of arginase-2 and eNOS in the differential vascular reactivity and hypoxia-induced endothelial response in umbilical arteries and veins*. Placenta, 2012. **33**(5): p. 360-6.

1857. Lee, B.F., et al., *Hypoxia imaging predicts success of hypoxia-induced cytosine deaminase/5-fluorocytosine gene therapy in a murine lung tumor model*. Cancer Gene Ther, 2012. **19**(4): p. 255-62.
1858. Lee, P., et al., *Severe microcytic anemia but increased erythropoiesis in mice lacking Hfe or Tfr2 and Tmprss6*. Blood Cells Mol Dis, 2012. **48**(3): p. 173-8.
1859. Lehman, N.L., et al., *Aurora A is differentially expressed in gliomas, is associated with patient survival in glioblastoma and is a potential chemotherapeutic target in gliomas*. Cell Cycle, 2012. **11**(3): p. 489-502.
1860. Leijten, J.C., et al., *Hypoxia inhibits hypertrophic differentiation and endochondral ossification in explanted tibiae*. PLoS One, 2012. **7**(11): p. e49896.
1861. Levin, V.A., et al., *Protein and phosphoprotein levels in glioma and adenocarcinoma cell lines grown in normoxia and hypoxia in monolayer and three-dimensional cultures*. Proteome Sci, 2012. **10**(1): p. 5.
1862. Li, J., et al., *Down-regulation of MutS homolog 3 by hypoxia in human colorectal cancer*. Biochim Biophys Acta, 2012. **1823**(4): p. 889-99.
1863. Li, J., et al., *N-methyl-D-aspartate receptor subtype 3A promotes apoptosis in developing mouse brain exposed to hyperoxia*. Neural Regen Res, 2012. **7**(4): p. 273-7.
1864. Li, L., et al., *An angiogenic role for the $\alpha 5\beta 1$ integrin in promoting endothelial cell proliferation during cerebral hypoxia*. Experimental neurology, 2012. **237**(1): p. 46-54.
1865. Li, X., et al., *Epidermal growth factor-ferritin H-chain protein nanoparticles for tumor active targeting*. Small, 2012. **8**(16): p. 2505-14.
1866. Liang, D., et al., *The hypoxic microenvironment upgrades stem-like properties of ovarian cancer cells*. BMC Cancer, 2012. **12**(1): p. 201.
1867. Liang, X.J., et al., *Phosphomannopentaose sulfate (PI-88) suppresses angiogenesis by downregulating heparanase and vascular endothelial growth factor in an oxygen-induced retinal neovascularization animal model*. Mol Vis, 2012. **18**: p. 1649-57.
1868. Liang, X.L., et al., *A comparing study of quantitative staining techniques for retinal neovascularization in a mouse model of oxygen-induced retinopathy*. Int J Ophthalmol, 2012. **5**(1): p. 1-6.
1869. Liew, S.Y., et al., *Hypoxia affects cellular responses to plant extracts*. J Ethnopharmacol, 2012. **144**(2): p. 453-6.
1870. Lin, H.H., et al., *Identification of an AAA ATPase VPS4B-dependent pathway that modulates epidermal growth factor receptor abundance and signaling during hypoxia*. Molecular and cellular biology, 2012. **32**(6): p. 1124-1138.
1871. Liu, Q., et al., *Hypoxia-inducible factor regulates hepcidin via erythropoietin-induced erythropoiesis*. J Clin Invest, 2012. **122**(12): p. 4635-44.
1872. Locy, M.L., et al., *Thioredoxin reductase inhibition elicits Nrf2-mediated responses in Clara cells: implications for oxidant-induced lung injury*. Antioxid Redox Signal, 2012. **17**(10): p. 1407-16.
1873. Lu, Q., et al., *Increased NADPH oxidase-derived superoxide is involved in the neuronal cell death induced by hypoxia-ischemia in neonatal hippocampal slice cultures*. Free Radical Biology and Medicine, 2012. **53**(5): p. 1139-1151.

1874. Lv, C., et al., *Blocking the Na⁺/H⁺ exchanger 1 with cariporide (HOE642) reduces the hypoxia-induced invasion of human tongue squamous cell carcinoma*. Int J Oral Maxillofac Surg, 2012. **41**(10): p. 1206-10.
1875. Maile, L.A., et al., *Disruption of the association of integrin-associated protein (IAP) with tyrosine phosphatase non-receptor type substrate-1 (SHPS)-1 inhibits pathophysiological changes in retinal endothelial function in a rat model of diabetes*. Diabetologia, 2012. **55**(3): p. 835-44.
1876. Mishra, S., et al., *Poly(alkylene oxide) copolymers for nucleic acid delivery*. Acc Chem Res, 2012. **45**(7): p. 1057-66.
1877. Murugesan, N., et al., *Brain regional angiogenic potential at the neurovascular unit during normal aging*. Neurobiology of aging, 2012. **33**(5): p. 1004. e1-1004. e16.
1878. Na, K.H., et al., *Dynamic alterations in integrin α 4 expression by hypoxia are involved in trophoblast invasion during early implantation*. Journal of cellular biochemistry, 2012. **113**(2): p. 685-694.
1879. Nair, D., V. Ramesh, and D. Gozal, *Adverse cognitive effects of high-fat diet in a murine model of sleep apnea are mediated by NADPH oxidase activity*. Neuroscience, 2012. **227**: p. 361-9.
1880. Nakamura, S., et al., *Morphological and functional changes in the retina after chronic oxygen-induced retinopathy*. PLoS One, 2012. **7**(2): p. e32167.
1881. Nakamura, S., et al., *Candesartan, an angiotensin II type 1 receptor antagonist, inhibits pathological retinal neovascularization by downregulating VEGF receptor-2 expression*. Eur J Pharmacol, 2012. **685**(1-3): p. 8-14.
1882. Narwal, S., et al., *Behavior & pharmacological animal models for the evaluation of learning & memory condition*. Indo Global J Pharm Sci, 2012. **2**(2): p. 121-29.
1883. O'Bryhim, B.E., et al., *The genetic control of avascular area in mouse oxygen-induced retinopathy*. Molecular vision, 2012. **18**: p. 377.
1884. Ogle, M.E., et al., *Inhibition of prolyl hydroxylases by dimethyloxaloylglycine after stroke reduces ischemic brain injury and requires hypoxia inducible factor-1 α* . Neurobiology of disease, 2012. **45**(2): p. 733-742.
1885. Olave, N., et al., *Transforming growth factor-beta regulates endothelin-1 signaling in the newborn mouse lung during hypoxia exposure*. Am J Physiol Lung Cell Mol Physiol, 2012. **302**(9): p. L857-65.
1886. Oliner, J.D., et al., *AMG 386, a Selective Angiopoietin 1/2-Neutralizing Peptibody, Inhibits Angiogenesis in Models of Ocular Neovascular DiseasesEffect of AMG 386 on Ocular Neovascularization*. Investigative ophthalmology & visual science, 2012. **53**(4): p. 2170-2180.
1887. Parikh, V.N., et al., *MicroRNA-21 integrates pathogenic signaling to control pulmonary hypertension: results of a network bioinformatics approach*. Circulation, 2012. **125**(12): p. 1520-32.
1888. Park, E.C., et al., *Hypoxia regulates glutamate receptor trafficking through an HIF-independent mechanism*. The EMBO journal, 2012. **31**(6): p. 1379-1393.
1889. Peng, G., et al., *Sustained therapeutic hypercapnia attenuates pulmonary arterial Rho-kinase activity and ameliorates chronic hypoxic pulmonary hypertension in juvenile rats*. Am J Physiol Heart Circ Physiol, 2012. **302**(12): p. H2599-611.

1890. Perveen, S., et al., *Role of EC-SOD overexpression in preserving pulmonary angiogenesis inhibited by oxidative stress*. PLoS One, 2012. **7**(12): p. e51945.
1891. Phinney, D.G., *Functional heterogeneity of mesenchymal stem cells: implications for cell therapy*. J Cell Biochem, 2012. **113**(9): p. 2806-12.
1892. Piao, L., et al., *GRK2-mediated inhibition of adrenergic and dopaminergic signaling in right ventricular hypertrophy: therapeutic implications in pulmonary hypertension*. Circulation, 2012. **126**(24): p. 2859-69.
1893. Popova, A.P., et al., *Glycogen synthase kinase-3 β /beta-catenin signaling regulates neonatal lung mesenchymal stromal cell myofibroblastic differentiation*. Am J Physiol Lung Cell Mol Physiol, 2012. **303**(5): p. L439-48.
1894. Porzionato, A., et al., *Fluoxetine may worsen hyperoxia-induced lung damage in neonatal rats*. Histology and histopathology, 2012. **27**(10): p. 1599.
1895. Prows, D.R., W.J. Gibbons, Jr., and B.B. Burzynski, *Synchronizing allelic effects of opposing quantitative trait loci confirmed a major epistatic interaction affecting acute lung injury survival in mice*. PLoS One, 2012. **7**(5): p. e38177.
1896. Rasmussen, J.G., et al., *Activation of protease-activated receptor 2 induces VEGF independently of HIF-1*. PLoS One, 2012. **7**(9): p. e46087.
1897. Ren, M.L., et al., *Allogeneic adipose-derived stem cells with low immunogenicity constructing tissue-engineered bone for repairing bone defects in pigs*. Cell Transplant, 2012. **21**(12): p. 2711-21.
1898. Richter, S., et al., *Expression and role in glycolysis of human ADP-dependent glucokinase*. Mol Cell Biochem, 2012. **364**(1-2): p. 131-45.
1899. Riis, S.E., *Hypoxia and Trypsin enhance the Proangiogenic Properties of human Adipose-derived Stem Cells*. thesis, 2012.
1900. Rodriguez, E.S., et al., *Biosafety evaluation of recombinant protein production in goat mammary gland using adenoviral vectors: preliminary study*. Biotechnol J, 2012. **7**(8): p. 1049-53.
1901. Sahu, D., et al., *A potentially common peptide target in secreted heat shock protein-90 α for hypoxia-inducible factor-1 α -positive tumors*. Molecular biology of the cell, 2012. **23**(4): p. 602-613.
1902. Sakulterdkiat, T., et al., *Curcumin resistance induced by hypoxia in HepG2 cells is mediated by multidrug-resistance-associated proteins*. Anticancer research, 2012. **32**(12): p. 5337-5342.
1903. Saller, M.M., et al., *Increased stemness and migration of human mesenchymal stem cells in hypoxia is associated with altered integrin expression*. Biochemical and biophysical research communications, 2012. **423**(2): p. 379-385.
1904. Schrobback, K., et al., *Effects of oxygen and culture system on in vitro propagation and redifferentiation of osteoarthritic human articular chondrocytes*. Cell Tissue Res, 2012. **347**(3): p. 649-63.
1905. Schrobback, K., et al., *Effects of oxygen on zonal marker expression in human articular chondrocytes*. Tissue Eng Part A, 2012. **18**(9-10): p. 920-33.
1906. Sensebe, L., et al., *Limited acquisition of chromosomal aberrations in human adult mesenchymal stromal cells*. Cell Stem Cell, 2012. **10**(1): p. 9-10; author reply 10-1.
1907. Sewing, A.C., et al., *Therapeutic hypercapnia prevents bleomycin-induced pulmonary hypertension in neonatal rats by limiting macrophage-derived tumor*

- necrosis factor-alpha*. Am J Physiol Lung Cell Mol Physiol, 2012. **303**(1): p. L75-87.
1908. Shyu, K.G., et al., *Angiotensin II mediates urotensin II expression by hypoxia in cultured cardiac fibroblast*. Eur J Clin Invest, 2012. **42**(1): p. 17-26.
1909. Signore, M., et al., *Identity and ranking of colonic mesenchymal stromal cells*. J Cell Physiol, 2012. **227**(9): p. 3291-300.
1910. Sparrow, D.B., et al., *A mechanism for gene-environment interaction in the etiology of congenital scoliosis*. Cell, 2012. **149**(2): p. 295-306.
1911. Stapor, P.C. and W.L. Murfee, *Identification of class III β -tubulin as a marker of angiogenic perivascular cells*. Microvascular research, 2012. **83**(2): p. 257-262.
1912. Stettner, G.M., V.B. Fenik, and L. Kubin, *Effect of chronic intermittent hypoxia on noradrenergic activation of hypoglossal motoneurons*. J Appl Physiol (1985), 2012. **112**(2): p. 305-12.
1913. Stevenson, T.J., et al., *Hypoxia disruption of vertebrate CNS pathfinding through ephrinB2 is rescued by magnesium*. PLoS Genet, 2012. **8**(4): p. e1002638.
1914. Sun, H., et al., *Chronic hypoxia-induced upregulation of Ca²⁺-activated Cl⁻ channel in pulmonary arterial myocytes: a mechanism contributing to enhanced vasoreactivity*. J Physiol, 2012. **590**(15): p. 3507-21.
1915. Tao, J.D., et al., *Histopathologic correlation with diffusion tensor imaging after chronic hypoxia in the immature ferret*. Pediatr Res, 2012. **71**(2): p. 192-8.
1916. Tropea, K.A., et al., *Bronchioalveolar stem cells increase after mesenchymal stromal cell treatment in a mouse model of bronchopulmonary dysplasia*. Am J Physiol Lung Cell Mol Physiol, 2012. **302**(9): p. L829-37.
1917. Tuomela, J., et al., *Low TLR9 expression defines an aggressive subtype of triple-negative breast cancer*. Breast Cancer Res Treat, 2012. **135**(2): p. 481-93.
1918. Tuteja, N., et al., *Recent advances in development of marker-free transgenic plants: regulation and biosafety concern*. J Biosci, 2012. **37**(1): p. 167-97.
1919. Urbani, L., et al., *Hypoxia increases mouse satellite cell clone proliferation maintaining both in vitro and in vivo heterogeneity and myogenic potential*. PLoS One, 2012. **7**(11): p. e49860.
1920. Usatyuk, P.V., et al., *Novel role for non-muscle myosin light chain kinase (MLCK) in hyperoxia-induced recruitment of cytoskeletal proteins, NADPH oxidase activation, and reactive oxygen species generation in lung endothelium*. J Biol Chem, 2012. **287**(12): p. 9360-75.
1921. Vadivel, A., et al., *Critical role of the axonal guidance cue EphrinB2 in lung growth, angiogenesis, and repair*. Am J Respir Crit Care Med, 2012. **185**(5): p. 564-74.
1922. Vekich, J.A., et al., *Protein disulfide isomerase-associated 6 is an ATF6-inducible ER stress response protein that protects cardiac myocytes from ischemia/reperfusion-mediated cell death*. Journal of molecular and cellular cardiology, 2012. **53**(2): p. 259-267.
1923. Verschuren, M.T., et al., *The effect of hypoxia-induced intrauterine growth restriction on renal artery function*. J Dev Orig Health Dis, 2012. **3**(5): p. 333-41.
1924. Wang, C.T., et al., *Reduced neuronal expression of ribose-5-phosphate isomerase enhances tolerance to oxidative stress, extends lifespan, and*

- attenuates polyglutamine toxicity in Drosophila*. Aging Cell, 2012. **11**(1): p. 93-103.
1925. Wang, H., et al., *VEGF-mediated STAT3 activation inhibits retinal vascularization by down-regulating local erythropoietin expression*. Am J Pathol, 2012. **180**(3): p. 1243-53.
1926. Wang, H., et al., *Activation of peroxisome proliferator-activated receptor gamma prolongs islet allograft survival*. Cell Transplant, 2012. **21**(10): p. 2111-8.
1927. Wang, S., et al., *A polysaccharides MDG-1 augments survival in the ischemic heart by inducing S1P release and S1P1 expression*. Int J Biol Macromol, 2012. **50**(3): p. 734-40.
1928. Waszak, P., et al., *Preconditioning enhances the paracrine effect of mesenchymal stem cells in preventing oxygen-induced neonatal lung injury in rats*. Stem Cells Dev, 2012. **21**(15): p. 2789-97.
1929. Wei, L., et al., *Transplantation of hypoxia preconditioned bone marrow mesenchymal stem cells enhances angiogenesis and neurogenesis after cerebral ischemia in rats*. Neurobiol Dis, 2012. **46**(3): p. 635-45.
1930. Wong, C.M., et al., *Iron chelation inhibits the development of pulmonary vascular remodeling*. Free Radic Biol Med, 2012. **53**(9): p. 1738-47.
1931. Xia, L., et al., *Enhanced proliferation and functions of in vitro expanded human hair follicle outer root sheath cells by low oxygen tension culture*. Tissue Eng Part C Methods, 2012. **18**(8): p. 603-13.
1932. Xiao, J., et al., *Cellular FLICE-inhibitory protein protects against cardiac remodelling after myocardial infarction*. Basic Res Cardiol, 2012. **107**(1): p. 239.
1933. Xiao, L., et al., *Induction of gastrin expression in gastrointestinal cells by hypoxia or cobalt is independent of hypoxia-inducible factor (HIF)*. Endocrinology, 2012. **153**(7): p. 3006-3016.
1934. Xie, M., M. Liu, and C.S. He, *SIRT1 regulates endothelial Notch signaling in lung cancer*. PLoS One, 2012. **7**(9): p. e45331.
1935. Xin, H., et al., *Association of the von Hippel–Lindau Protein with AUF1 and Posttranscriptional Regulation of VEGFA mRNA*. Molecular Cancer Research, 2012. **10**(1): p. 108-120.
1936. Yamaleyeva, L.M., et al., *Cell therapy with human renal cell cultures containing erythropoietin-positive cells improves chronic kidney injury*. Stem Cells Transl Med, 2012. **1**(5): p. 373-83.
1937. Yang, C., et al., *Role of receptor-mediated endocytosis in the antiangiogenic effects of human T lymphoblastic cell-derived microparticles*. Am J Physiol Regul Integr Comp Physiol, 2012. **302**(8): p. R941-9.
1938. Yang, S., et al., *Defined xenogeneic-free and hypoxic environment provides superior conditions for long-term expansion of human adipose-derived stem cells*. Tissue Eng Part C Methods, 2012. **18**(8): p. 593-602.
1939. York, J.M., et al., *Individually ventilated cages cause chronic low-grade hypoxia impacting mice hematologically and behaviorally*. Brain Behav Immun, 2012. **26**(6): p. 951-8.
1940. Yuen, B., et al., *Mice expressing T4826I-RYR1 are viable but exhibit sex- and genotype-dependent susceptibility to malignant hyperthermia and muscle damage*. FASEB J, 2012. **26**(3): p. 1311-22.

1941. Yung, H.W., et al., *Evidence of endoplasmic reticulum stress and protein synthesis inhibition in the placenta of non-native women at high altitude*. The FASEB Journal, 2012. **26**(5): p. 1970-1981.
1942. Zara, S., et al., *pPKC α mediated-HIF-1 α activation related to the morphological modifications occurring in neonatal myocardial tissue in response to severe and mild hyperoxia*. European journal of histochemistry: EJH, 2012. **56**(1).
1943. Zeng, X., et al., *Protective effect of apelin on cultured rat bone marrow mesenchymal stem cells against apoptosis*. Stem Cell Res, 2012. **8**(3): p. 357-67.
1944. Zhou, J., et al., *Activation of peroxisome proliferator-activated receptor α (PPAR α) suppresses hypoxia-inducible factor-1 α (HIF-1 α) signaling in cancer cells*. Journal of Biological Chemistry, 2012. **287**(42): p. 35161-35169.
1945. Ziemińska, E., et al., *Synergistic neurotoxicity of oxygen-glucose deprivation and tetrabromobisphenol A in vitro: role of oxidative stress*. Pharmacological Reports, 2012. **64**(5): p. 1166-1178.
1946. Agaltsov, M., et al., *SLEEP BREATHING DISORDERS AT PATIENTSWITH ACROMEGALY*. Sleep Medicine, 2011. **12**: p. S9-S10.
1947. Alphonse, R.S., et al., *Activation of Akt protects alveoli from neonatal oxygen-induced lung injury*. Am J Respir Cell Mol Biol, 2011. **44**(2): p. 146-54.
1948. Arias, L., et al., *Combining erythropoietin and bone marrow stromal cell therapy after stroke*. Translational Neuroscience, 2011. **2**(1): p. 6-12.
1949. Azad, P., J. Ryu, and G.G. Haddad, *Distinct role of Hsp70 in Drosophila hemocytes during severe hypoxia*. Free Radic Biol Med, 2011. **51**(2): p. 530-8.
1950. Azadzoi, K.M., S.V. Yalla, and M.B. Siroky, *Human bladder smooth muscle cell damage in disturbed oxygen tension*. Urology, 2011. **78**(4): p. 967 e9-15.
1951. Bambrick, L., Y. Kostov, and G. Rao, *In vitro cell culture pO₂ is significantly different from incubator pO₂*. Biotechnology progress, 2011. **27**(4): p. 1185-1189.
1952. Barsoum, I.B., et al., *Hypoxia induces escape from innate immunity in cancer cells via increased expression of ADAM10: role of nitric oxide*. Cancer Res, 2011. **71**(24): p. 7433-41.
1953. Barsoum, I.B., S.J. Renaud, and C.H. Graham, *Glyceryl trinitrate inhibits hypoxia-induced release of soluble fms-like tyrosine kinase-1 and endoglin from placental tissues*. Am J Pathol, 2011. **178**(6): p. 2888-96.
1954. Bertrand, Y., et al., *Influence of glioma tumour microenvironment on the transport of ANG1005 via low-density lipoprotein receptor-related protein 1*. Br J Cancer, 2011. **105**(11): p. 1697-707.
1955. Briva, A., et al., *Adenosine triphosphate-dependent calcium signaling during ventilator-induced lung injury is amplified by hypercapnia*. Experimental lung research, 2011. **37**(8): p. 471-481.
1956. Budinger, G.S., et al., *Epithelial cell death is an important contributor to oxidant-mediated acute lung injury*. American journal of respiratory and critical care medicine, 2011. **183**(8): p. 1043-1054.
1957. Burr, D.B., et al., *Treatment with connexin 46 siRNA suppresses the growth of human Y79 retinoblastoma cell xenografts in vivo*. Exp Eye Res, 2011. **92**(4): p. 251-9.

1958. Burridge, P.W., et al., *A universal system for highly efficient cardiac differentiation of human induced pluripotent stem cells that eliminates interline variability*. PloS one, 2011. **6**(4): p. e18293.
1959. Cai, J., C.M. Tuong, and D. Gozal, *A neonatal mouse model of intermittent hypoxia associated with features of apnea in premature infants*. Respir Physiol Neurobiol, 2011. **178**(2): p. 210-7.
1960. Carreau, A., C. Kieda, and C. Grillon, *Nitric oxide modulates the expression of endothelial cell adhesion molecules involved in angiogenesis and leukocyte recruitment*. Exp Cell Res, 2011. **317**(1): p. 29-41.
1961. Cengiz, P., et al., *Inhibition of Na⁺/H⁺ exchanger isoform 1 is neuroprotective in neonatal hypoxic ischemic brain injury*. Antioxidants & redox signaling, 2011. **14**(10): p. 1803-1813.
1962. Cengiz, P., et al., *Chronic neurological deficits in mice after perinatal hypoxia and ischemia correlate with hemispheric tissue loss and white matter injury detected by MRI*. Dev Neurosci, 2011. **33**(3-4): p. 270-9.
1963. Chai, T.F., et al., *Hypoxia-inducible factor independent down-regulation of thioredoxin-interacting protein in hypoxia*. FEBS Lett, 2011. **585**(3): p. 492-8.
1964. Chen, C.Y., et al., *Baculovirus as a gene delivery vector: recent understandings of molecular alterations in transduced cells and latest applications*. Biotechnol Adv, 2011. **29**(6): p. 618-31.
1965. Choudhary, G., et al., *Bosentan attenuates right ventricular hypertrophy and fibrosis in normobaric hypoxia model of pulmonary hypertension*. J Heart Lung Transplant, 2011. **30**(7): p. 827-33.
1966. Crnkovic, S., et al., *Origin of neomuscularized vessels in mice exposed to chronic hypoxia*. Respir Physiol Neurobiol, 2011. **179**(2-3): p. 342-5.
1967. Delebecque, F., et al., *ELEVATED PANCREATIC POLYPEPTIDE (PP) LEVELS IN OBSTRUCTIVE SLEEP APNEA*. Sleep Medicine, 2011. **12**: p. S10.
1968. DeNiro, M., F.H. Al-Mohanna, and F.A. Al-Mohanna, *Inhibition of reactive gliosis prevents neovascular growth in the mouse model of oxygen-induced retinopathy*. PLoS One, 2011. **6**(7): p. e22244.
1969. Dhaliwal, C.A., et al., *Early retinal blood vessel growth in normal and growth restricted rat pups raised in oxygen and room air*. Br J Ophthalmol, 2011. **95**(11): p. 1592-6.
1970. Dyugovskaya, L., et al., *Molecular Pathways of Spontaneous and TNF- α -Mediated Neutrophil Apoptosis under Intermittent Hypoxia*. American journal of respiratory cell and molecular biology, 2011. **45**(1): p. 154-162.
1971. Ferrero, E., et al., *CELLFOODTM IMPROVES RESPIRATORY METABOLISM OF ENDOTHELIAL CELLS AND INHIBITS HYPOXIA-INDUCED REACTIVE OXYGEN SPECIES (ROS) GENERATION*. Journal of Physiology and Pharmacology, 2011. **62**(3): p. 287-293.
1972. Fink, T., et al., *Isolation and expansion of adipose-derived stem cells for tissue engineering*. Front Biosci (Elite Ed), 2011. **3**: p. 256-63.
1973. Foldager, C.B., et al., *Combined 3D and hypoxic culture improves cartilage-specific gene expression in human chondrocytes*. Acta Orthop, 2011. **82**(2): p. 234-40.

1974. Foldbjerg, R., D.A. Dang, and H. Autrup, *Cytotoxicity and genotoxicity of silver nanoparticles in the human lung cancer cell line, A549*. Arch Toxicol, 2011. **85**(7): p. 743-50.
1975. Fukushima, Y., et al., *Sema3E-PlexinD1 signaling selectively suppresses disoriented angiogenesis in ischemic retinopathy in mice*. J Clin Invest, 2011. **121**(5): p. 1974-85.
1976. Fuller, R.J., et al., *Improving cotton embryo culture by simulating in ovulo nutrient and hormone levels*. In Vitro Cellular & Developmental Biology-Plant, 2011. **47**(3): p. 410-419.
1977. Gamboa, J.L., M.L. Garcia-Cazarin, and F.H. Andrade, *Chronic hypoxia increases insulin-stimulated glucose uptake in mouse soleus muscle*. Am J Physiol Regul Integr Comp Physiol, 2011. **300**(1): p. R85-91.
1978. Garbayo, E., et al., *Neuroprotective properties of marrow-isolated adult multilineage-inducible cells in rat hippocampus following global cerebral ischemia are enhanced when complexed to biomimetic microcarriers*. Journal of neurochemistry, 2011. **119**(5): p. 972-988.
1979. Gauster, M., et al., *Fibulin-5 expression in the human placenta*. Histochem Cell Biol, 2011. **135**(2): p. 203-13.
1980. Gharib, S.A., et al., *Transcriptional landscape of bone marrow-derived very small embryonic-like stem cells during hypoxia*. Respir Res, 2011. **12**: p. 63.
1981. Grahl, N., et al., *In vivo hypoxia and a fungal alcohol dehydrogenase influence the pathogenesis of invasive pulmonary aspergillosis*. PLoS Pathog, 2011. **7**(7): p. e1002145.
1982. Guitart, A., et al., *Very low oxygen concentration (0.1%) reveals two FDCP-Mix cell subpopulations that differ by their cell cycling, differentiation and p27KIP1 expression*. Cell Death & Differentiation, 2011. **18**(1): p. 174-182.
1983. Han, Q., et al., *Role of heme oxygenase-1 in intermittent hypoxia-induced inflammation and oxidative stress in eAhy 926 endothelial cell line*. Hong Kong Medical Journal, 2011. **17**(1, suppl. 1): p. 29-29.
1984. Hartmann, J.S., et al., *Expression of vascular endothelial growth factor and pigment epithelial-derived factor in a rat model of retinopathy of prematurity*. Mol Vis, 2011. **17**: p. 1577-87.
1985. Hasan, A., et al., *The matricellular protein cysteine-rich protein 61 (CCN1/Cyr61) enhances physiological adaptation of retinal vessels and reduces pathological neovascularization associated with ischemic retinopathy*. J Biol Chem, 2011. **286**(11): p. 9542-54.
1986. Haschemi, A., et al., *Carbon monoxide induced PPARgamma SUMOylation and UCP2 block inflammatory gene expression in macrophages*. PLoS One, 2011. **6**(10): p. e26376.
1987. Hasegawa, T., et al., *Antioxidant properties of pioglitazone limit nicotinamide adenine dinucleotide phosphate hydrogen oxidase and augment superoxide dismutase activity in cardiac allotransplantation*. J Heart Lung Transplant, 2011. **30**(10): p. 1186-96.
1988. Herr, K.J., et al., *Stereotyped fetal brain disorganization is induced by hypoxia and requires lysophosphatidic acid receptor 1 (LPA1) signaling*. Proceedings of the National Academy of Sciences, 2011. **108**(37): p. 15444-15449.

1989. Hillery, C.A., et al., *Transient receptor potential vanilloid 1 mediates pain in mice with severe sickle cell disease*. Blood, 2011. **118**(12): p. 3376-83.
1990. Hu, X., et al., *Hypoxic preconditioning enhances bone marrow mesenchymal stem cell migration via Kv2.1 channel and FAK activation*. Am J Physiol Cell Physiol, 2011. **301**(2): p. C362-72.
1991. Huang, B., et al., *Hypoxia-inducible factor-1 drives annexin A2 system-mediated perivascular fibrin clearance in oxygen-induced retinopathy in mice*. Blood, 2011. **118**(10): p. 2918-29.
1992. Huh, J.W., et al., *YC-1 attenuates hypoxia-induced pulmonary arterial hypertension in mice*. Pulm Pharmacol Ther, 2011. **24**(6): p. 638-46.
1993. Husain, R.M.L., et al., *Genomic assessment of a multikinase inhibitor*. Eur Respir J, 2011. **37**(6): p. 1303-1305.
1994. Johnson, A.S., et al., *Quantitative assessment of islets of Langerhans encapsulated in alginate*. Tissue Eng Part C Methods, 2011. **17**(4): p. 435-49.
1995. Johnson, P.L., et al., *Induction of c-Fos in 'panic/defence'-related brain circuits following brief hypercarbic gas exposure*. J Psychopharmacol, 2011. **25**(1): p. 26-36.
1996. Julien, C.A., V. Joseph, and A. Bairam, *Alteration of carotid body chemoreflexes after neonatal intermittent hypoxia and caffeine treatment in rat pups*. Respir Physiol Neurobiol, 2011. **177**(3): p. 301-12.
1997. Kang, B.-Y., et al., *The PPAR γ ligand rosiglitazone attenuates hypoxia-induced endothelin signaling in vitro and in vivo*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2011. **301**(6): p. L881-L891.
1998. Karlenius, T.C., et al., *The selenium content of cell culture serum influences redox-regulated gene expression*. Biotechniques, 2011. **50**(5): p. 295-301.
1999. Kasi, V., et al., *Zinc pyrithione salvages reperfusion injury by inhibiting NADPH oxidase activation in cardiomyocytes*. Biochem Biophys Res Commun, 2011. **410**(2): p. 270-5.
2000. Kataoka, K., et al., *The roles of vitreal macrophages and circulating leukocytes in retinal neovascularization*. Invest Ophthalmol Vis Sci, 2011. **52**(3): p. 1431-8.
2001. Kelly, T.J., et al., *A hypoxia-induced positive feedback loop promotes hypoxia-inducible factor 1 α stability through miR-210 suppression of glycerol-3-phosphate dehydrogenase 1-like*. Molecular and cellular biology, 2011. **31**(13): p. 2696-2706.
2002. Khatibi, N.H., et al., *Endothelin receptor-A (ETA) inhibition fails to improve neonatal hypoxic-ischemic brain injury in rats*. Acta Neurochir Suppl, 2011. **111**: p. 207-12.
2003. Kim, I., et al., *Reference gene validation for qPCR in rat carotid body during postnatal development*. BMC Res Notes, 2011. **4**(1): p. 440.
2004. Kim, Y., et al., *Suppression of CFTR-mediated Cl secretion of airway epithelium in vitamin C-deficient mice*. J Korean Med Sci, 2011. **26**(3): p. 317-24.
2005. Kondrikov, D., et al., *Reactive oxygen species-dependent RhoA activation mediates collagen synthesis in hyperoxic lung fibrosis*. Free Radic Biol Med, 2011. **50**(11): p. 1689-98.
2006. Lai, A.Y., et al., *Neonatal rat microglia derived from different brain regions have distinct activation responses*. Neuron glia biology, 2011. **7**(01): p. 5-16.

2007. Lan, W.C., et al., *Sex-specific cognitive deficits and regional brain volume loss in mice exposed to chronic, sublethal hypoxia*. *Pediatr Res*, 2011. **70**(1): p. 15-20.
2008. Landucci, E., et al., *CB1 receptors and post-ischemic brain damage: studies on the toxic and neuroprotective effects of cannabinoids in rat organotypic hippocampal slices*. *Neuropharmacology*, 2011. **60**(4): p. 674-82.
2009. Larsen, B.F., D.H. Lundsted, and S.E. Riis, *The Effect of Hypoxia and Trypsin on the Wound Healing Properties of Adipose-Derived Stem Cells*. thesis, 2011.
2010. Le Moan, N., et al., *Oxygen-dependent cleavage of the p75 neurotrophin receptor triggers stabilization of HIF-1 α* . *Molecular cell*, 2011. **44**(3): p. 476-490.
2011. Lee, D.-C., et al., *miR-210 targets iron-sulfur cluster scaffold homologue in human trophoblast cell lines: siderosis of interstitial trophoblasts as a novel pathology of preterm preeclampsia and small-for-gestational-age pregnancies*. *The American journal of pathology*, 2011. **179**(2): p. 590-602.
2012. Lee, H.-S. and C.-K. Kim, *Cathepsin B is activated as an executive protease in fetal rat alveolar type II cells exposed to hyperoxia*. *Experimental & molecular medicine*, 2011. **43**(4): p. 223-229.
2013. Lee, K.H., et al., *Targeting energy metabolic and oncogenic signaling pathways in triple-negative breast cancer by a novel adenosine monophosphate-activated protein kinase (AMPK) activator*. *J Biol Chem*, 2011. **286**(45): p. 39247-58.
2014. Lehwald, N., et al., *Wnt- β -catenin signaling protects against hepatic ischemia and reperfusion injury in mice*. *Gastroenterology*, 2011. **141**(2): p. 707-718. e5.
2015. Leucker, T.M., et al., *Endothelial-cardiomyocyte crosstalk enhances pharmacological cardioprotection*. *Journal of molecular and cellular cardiology*, 2011. **51**(5): p. 803-811.
2016. Li, D., T. Bai, and J.R. Brorson, *Adaptation to moderate hypoxia protects cortical neurons against ischemia-reperfusion injury and excitotoxicity independently of HIF-1 α* . *Experimental neurology*, 2011. **230**(2): p. 302-310.
2017. Li, G., et al., *Melatonin protects mice with intermittent hypoxia from oxidative stress-induced pancreatic injury*. *Sleep and Biological Rhythms*, 2011. **9**(2): p. 78-85.
2018. Li, R.C., et al., *Exogenous growth hormone attenuates cognitive deficits induced by intermittent hypoxia in rats*. *Neuroscience*, 2011. **196**: p. 237-50.
2019. Li, R.C., et al., *Leukotriene B4 receptor-1 mediates intermittent hypoxia-induced atherogenesis*. *Am J Respir Crit Care Med*, 2011. **184**(1): p. 124-31.
2020. Lin, C.D., et al., *Transient ischemia/hypoxia enhances gentamicin ototoxicity via caspase-dependent cell death pathway*. *Lab Invest*, 2011. **91**(7): p. 1092-106.
2021. Lopez-Iglesias, P., et al., *Short and long term fate of human AMSC subcutaneously injected in mice*. *World J Stem Cells*, 2011. **3**(6): p. 53-62.
2022. Lorcheim, K., *Chlorine dioxide gas inactivation of beta-lactams*. *Appl Biosaf*, 2011. **16**: p. 34-43.
2023. Loron, G., et al., *Ciprofloxacin prevents myelination delay in neonatal rats subjected to E. coli sepsis*. *Ann Neurol*, 2011. **69**(2): p. 341-51.
2024. Lu, Q., et al., *Increased p38 mitogen-activated protein kinase signaling is involved in the oxidative stress associated with oxygen and glucose deprivation*

- in neonatal hippocampal slice cultures*. European Journal of Neuroscience, 2011. **34**(7): p. 1093-1101.
2025. Luo, K., et al., *Gadolinium-labeled peptide dendrimers with controlled structures as potential magnetic resonance imaging contrast agents*. Biomaterials, 2011. **32**(31): p. 7951-60.
2026. Luo, Y., et al., *Differential expression of claudins in retinas during normal development and the angiogenesis of oxygen-induced retinopathy*. Invest Ophthalmol Vis Sci, 2011. **52**(10): p. 7556-64.
2027. Luwor, R.B., et al., *Constitutively active Harvey Ras confers resistance to epidermal growth factor receptor-targeted therapy with cetuximab and gefitinib*. Cancer letters, 2011. **306**(1): p. 85-91.
2028. Ma, Y., et al., *Prostate cancer cell lines under hypoxia exhibit greater stem-like properties*. PLoS One, 2011. **6**(12): p. e29170.
2029. Mak, J.C., et al., *Effect of intermittent hypoxia on the expression of fatty acid binding proteins in human adipocytes and macrophages*. European Respiratory Journal, 2011. **38**(Suppl 55): p. p3049.
2030. Manalo, D.J., et al., *Inactivation of prolyl hydroxylase domain (PHD) protein by epigallocatechin (EGCG) stabilizes hypoxia-inducible factor (HIF-1 α) and induces hepcidin (Hamp) in rat kidney*. Biochemical and biophysical research communications, 2011. **416**(3): p. 421-426.
2031. McAneney, J., et al., *Chronic hypoxia and chronic hypercapnia differentially regulate an NMDA-sensitive component of the acute hypercapnic ventilatory response in the cane toad (Rhinella marina)*. J Comp Physiol B, 2011. **181**(6): p. 793-805.
2032. Medina, R.J., et al., *Myeloid angiogenic cells act as alternative M2 macrophages and modulate angiogenesis through interleukin-8*. Molecular medicine, 2011. **17**(9-10): p. 1045.
2033. Mivelaz, Y., et al., *Neonatal oxygen exposure leads to increased aortic wall stiffness in adult rats: a Doppler ultrasound study*. J Dev Orig Health Dis, 2011. **2**(3): p. 184-9.
2034. Mody, P., I. Rukhadze, and L. Kubin, *Rats subjected to chronic-intermittent hypoxia have increased density of noradrenergic terminals in the trigeminal sensory and motor nuclei*. Neuroscience letters, 2011. **505**(2): p. 176-179.
2035. Molkov, Y.I., et al., *Intermittent hypoxia-induced sensitization of central chemoreceptors contributes to sympathetic nerve activity during late expiration in rats*. J Neurophysiol, 2011. **105**(6): p. 3080-91.
2036. Morton, J.S., C.F. Rueda-Clausen, and S.T. Davidge, *Flow-mediated vasodilation is impaired in adult rat offspring exposed to prenatal hypoxia*. Journal of applied physiology, 2011. **110**(4): p. 1073-1082.
2037. Nair, D., et al., *Intermittent hypoxia-induced cognitive deficits are mediated by NADPH oxidase activity in a murine model of sleep apnea*. PLoS One, 2011. **6**(5): p. e19847.
2038. Nakamura, S., et al., *An Arylidene-Thiazolidinedione Derivative, GPU-4, without PPAR γ Activation, Reduces Retinal Neovascularization*. Current neurovascular research, 2011. **8**(1): p. 25-34.

2039. Nakamura, S., et al., *Tissue kallikrein inhibits retinal neovascularization via the cleavage of vascular endothelial growth factor-165*. *Arterioscler Thromb Vasc Biol*, 2011. **31**(5): p. 1041-8.
2040. Natoli, R., et al., *Morphological, functional and gene expression analysis of the hyperoxic mouse retina*. *Exp Eye Res*, 2011. **92**(4): p. 306-14.
2041. Pae, E.K., et al., *Perinatal intermittent hypoxia alters gamma-aminobutyric acid: a receptor levels in rat cerebellum*. *Int J Dev Neurosci*, 2011. **29**(8): p. 819-26.
2042. Paes, K.T., et al., *Frizzled 4 is required for retinal angiogenesis and maintenance of the blood-retina barrier*. *Investigative ophthalmology & visual science*, 2011. **52**(9): p. 6452-6461.
2043. Paley, E.L., et al., *Hypoxia signature of splice forms of tryptophanyl-tRNA synthetase marks pancreatic cancer cells with distinct metastatic abilities*. *Pancreas*, 2011. **40**(7): p. 1043-56.
2044. Paprocka, M., et al., *CD133 positive progenitor endothelial cell lines from human cord blood*. *Cytometry A*, 2011. **79**(8): p. 594-602.
2045. Park, K., et al., *Overexpression of Pigment Epithelium-Derived Factor Inhibits Retinal Inflammation and Neovascularization*. *The American journal of pathology*, 2011. **178**(2): p. 688-698.
2046. Park, K.C., et al., *Potential anti-cancer activity of N-hydroxy-7-(2-naphthylthio) heptanamide (HNHA), a histone deacetylase inhibitor, against breast cancer both in vitro and in vivo*. *Cancer science*, 2011. **102**(2): p. 343-350.
2047. Perdiguero, E.G., et al., *Alteration of developmental and pathological retinal angiogenesis in angptl4-deficient mice*. *J Biol Chem*, 2011. **286**(42): p. 36841-51.
2048. Perry, J.C., et al., *Differential sympathetic activation induced by intermittent hypoxia and sleep loss in rats: Action of angiotensin (1-7)*. *Autonomic Neuroscience*, 2011. **160**(1): p. 32-36.
2049. Pierre, S.V., A. Belliard, and Y. Sottejeau, *Modulation of Na(+)-K(+)-ATPase cell surface abundance through structural determinants on the alpha1-subunit*. *Am J Physiol Cell Physiol*, 2011. **300**(1): p. C42-8.
2050. Poitz, D.M., et al., *OxLDL and macrophage survival: essential and oxygen-independent involvement of the Hif-pathway*. *Basic Res Cardiol*, 2011. **106**(5): p. 761-72.
2051. Prieto, C., et al., *Hypoxia-reduced nitric oxide synthase activity is partially explained by higher arginase-2 activity and cellular redistribution in human umbilical vein endothelium*. *Placenta*, 2011. **32**(12): p. 932-940.
2052. Proulx-Bonneau, S. and B. Annabi, *The primary cilium as a biomarker in the hypoxic adaptation of bone marrow-derived mesenchymal stromal cells: a role for the secreted frizzled-related proteins*. *Biomarker insights*, 2011. **6**: p. 107.
2053. Proulx-Bonneau, S., A. Guezguez, and B. Annabi, *A concerted HIF-1alpha/MT1-MMP signalling axis regulates the expression of the 3BP2 adaptor protein in hypoxic mesenchymal stromal cells*. *PLoS One*, 2011. **6**(6): p. e21511.
2054. Rahnemai-Azar, A., et al., *Human marrow-isolated adult multilineage-inducible (MIAMI) cells protect against peripheral vascular ischemia in a mouse model*. *Cytotherapy*, 2011. **13**(2): p. 179-92.

2055. Ramanathan, L. and J.M. Siegel, *Sleep deprivation under sustained hypoxia protects against oxidative stress*. Free Radic Biol Med, 2011. **51**(10): p. 1842-8.
2056. Rao, A.K., et al., *17 β -Estradiol-mediated increase in Cu/Zn superoxide dismutase expression in the brain: a mechanism to protect neurons from ischemia*. The Journal of steroid biochemistry and molecular biology, 2011. **127**(3): p. 382-389.
2057. Rasmussen, J.G., et al., *Prolonged hypoxic culture and trypsinization increase the pro-angiogenic potential of human adipose tissue-derived stem cells*. Cytotherapy, 2011. **13**(3): p. 318-28.
2058. Raval, A.P., et al., *Nicotine and estrogen synergistically exacerbate cerebral ischemic injury*. Neuroscience, 2011. **181**: p. 216-25.
2059. Rennel, E.S., et al., *A human neutralizing antibody specific to Ang-2 inhibits ocular angiogenesis*. Microcirculation, 2011. **18**(7): p. 598-607.
2060. Rink, C., et al., *Oxygen-inducible glutamate oxaloacetate transaminase as protective switch transforming neurotoxic glutamate to metabolic fuel during acute ischemic stroke*. Antioxidants & redox signaling, 2011. **14**(10): p. 1777-1785.
2061. Schmitz, T., et al., *Cellular changes underlying hyperoxia-induced delay of white matter development*. J Neurosci, 2011. **31**(11): p. 4327-44.
2062. Shinohara, K., et al., *Stromal cell-derived factor-1 and monocyte chemotactic protein-3 improve recruitment of osteogenic cells into sites of musculoskeletal repair*. J Orthop Res, 2011. **29**(7): p. 1064-9.
2063. Silva, A.Q. and A.M. Schreihöfer, *Altered sympathetic reflexes and vascular reactivity in rats after exposure to chronic intermittent hypoxia*. J Physiol, 2011. **589**(Pt 6): p. 1463-76.
2064. Singh, D.K., et al., *Hypoxia modulates the expression of leucine zipper-positive MYPT1 and its interaction with protein kinase G and Rho kinases in pulmonary arterial smooth muscle cells*. Pulm Circ, 2011. **1**(4): p. 487-98.
2065. Skandalis, D.A., J.A. Stuart, and G.J. Tattersall, *Responses of Drosophila melanogaster to atypical oxygen atmospheres*. J Insect Physiol, 2011. **57**(4): p. 444-51.
2066. Stewart, G.D., et al., *DNA strand breaks and hypoxia response inhibition mediate the radiosensitisation effect of nitric oxide donors on prostate cancer under varying oxygen conditions*. Biochem Pharmacol, 2011. **81**(2): p. 203-10.
2067. Sutendra, G., et al., *The role of Nogo and the mitochondria–endoplasmic reticulum unit in pulmonary hypertension*. Science Translational Medicine, 2011. **3**(88): p. 88ra55-88ra55.
2068. Talavera-Adame, D., et al., *Characterization of microvascular endothelial cells isolated from the dermis of adult mouse tails*. Microvasc Res, 2011. **82**(2): p. 97-104.
2069. Taylor, A.C., et al., *Attenuation of ephrinB2 reverse signaling decreases vascularized area and preretinal vascular tuft formation in the murine model of oxygen-induced retinopathy*. Investigative ophthalmology & visual science, 2011. **53**(9): p. 5462-5470.

2070. Telerman, A., P. Lavie, and L. Lavie, *Platelets/neutrophils Interactions In Obstructive Sleep Apnea And Intermittent Hypoxia In Vitro*. Am J Respir Crit Care Med, 2011. **183**: p. A5347.
2071. Tottey, S., et al., *Extracellular matrix degradation products and low-oxygen conditions enhance the regenerative potential of perivascular stem cells*. Tissue Eng Part A, 2011. **17**(1-2): p. 37-44.
2072. Valapala, M., S.I. Thamake, and J.K. Vishwanatha, *A competitive hexapeptide inhibitor of annexin A2 prevents hypoxia-induced angiogenic events*. J Cell Sci, 2011. **124**(Pt 9): p. 1453-64.
2073. Veschini, L., et al., *The vasostatin-1 fragment of chromogranin A preserves a quiescent phenotype in hypoxia-driven endothelial cells and regulates tumor neovascularization*. FASEB J, 2011. **25**(11): p. 3906-14.
2074. Viswanath, K., et al., *Cardioprotective effect of zinc requires ErbB2 and Akt during hypoxia/reoxygenation*. Biometals, 2011. **24**(1): p. 171-80.
2075. Vlachantoni, D., et al., *Evidence of severe mitochondrial oxidative stress and a protective effect of low oxygen in mouse models of inherited photoreceptor degeneration*. Hum Mol Genet, 2011. **20**(2): p. 322-35.
2076. Vohwinkel, C.U., et al., *Elevated CO₂ levels cause mitochondrial dysfunction and impair cell proliferation*. Journal of Biological Chemistry, 2011. **286**(43): p. 37067-37076.
2077. Wang, D., et al., *p21 WAF1 and hypoxia/reoxygenation-induced premature senescence of H9c2 cardiomyocytes*. Folia Histochem Cytobiol, 2011. **49**(3): p. 445-51.
2078. Wang, S., et al., *Bim is responsible for the inherent sensitivity of the developing retinal vasculature to hyperoxia*. Developmental biology, 2011. **349**(2): p. 296-309.
2079. Wang, Y., et al., *Monocarboxylate transporter 2 and stroke severity in a rodent model of sleep apnea*. J Neurosci, 2011. **31**(28): p. 10241-8.
2080. Wohlkoeig, C., et al., *Hypoxia-induced cisplatin resistance is reversible and growth rate independent in lung cancer cells*. Cancer letters, 2011. **308**(2): p. 134-143.
2081. Wu, Y., et al., *North American ginseng protects the heart from ischemia and reperfusion injury via upregulation of endothelial nitric oxide synthase*. Pharmacol Res, 2011. **64**(3): p. 195-202.
2082. Xie, L. and J.F. Collins, *Transcriptional regulation of the Menkes copper ATPase (Atp7a) gene by hypoxia-inducible factor (HIF2{alpha}) in intestinal epithelial cells*. Am J Physiol Cell Physiol, 2011. **300**(6): p. C1298-305.
2083. Yan, T., et al., *Neuronal markers are expressed in human gliomas and NSE knockdown sensitizes glioblastoma cells to radiotherapy and temozolomide*. BMC Cancer, 2011. **11**(1): p. 524.
2084. Yang, G., et al., *Silencing hyperoxia-induced C/EBP α in neonatal mice improves lung architecture via enhanced proliferation of alveolar epithelial cells*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2011. **301**(2): p. L187-L196.

2085. Yeung, S., et al., *Intermittent Hypoxia Enhances Inflammation And Oxidative Stress In EaHy 926 Endothelial Cells Via Suppression Of Ho-1 Expression*. Am J Respir Crit Care Med, 2011. **183**: p. A2475.
2086. Zaiman, A.L., et al., *A critical role for the protein apoptosis repressor with caspase recruitment domain in hypoxia-induced pulmonary hypertension*. Circulation, 2011. **124**(23): p. 2533-42.
2087. Zenclussen, M.L., et al., *Haem oxygenase-1 dictates intrauterine fetal survival in mice via carbon monoxide*. J Pathol, 2011. **225**(2): p. 293-304.
2088. Zhang, Y.F., Y.F. Zheng, and L. Qin, *A comprehensive biological evaluation of ceramic nanoparticles as wear debris*. Nanomedicine, 2011. **7**(6): p. 975-82.
2089. Zhou, H.Y., et al., *Improving the antibacterial property of porcine small intestinal submucosa by nano-silver supplementation: a promising biological material to address the need for contaminated defect repair*. Ann Surg, 2011. **253**(5): p. 1033-41.
2090. Zoccal, D.B., J.P. Huidobro-Toro, and B.H. Machado, *Chronic intermittent hypoxia augments sympatho-excitatory response to ATP but not to l-glutamate in the RVLM of rats*. Autonomic Neuroscience, 2011. **165**(2): p. 156-162.
2091. Zuloaga, K.L. and R.J. Gonzales, *Dihydrotestosterone attenuates hypoxia inducible factor-1 α and cyclooxygenase-2 in cerebral arteries during hypoxia or hypoxia with glucose deprivation*. American Journal of Physiology-Heart and Circulatory Physiology, 2011. **301**(5): p. H1882-H1890.
2092. Aitken, K.J., et al., *Mammalian target of rapamycin (mTOR) induces proliferation and de-differentiation responses to three coordinate pathophysiologic stimuli (mechanical strain, hypoxia, and extracellular matrix remodeling) in rat bladder smooth muscle*. Am J Pathol, 2010. **176**(1): p. 304-19.
2093. Akula, J.D., et al., *The anatomy of the rat eye with oxygen-induced retinopathy*. Doc Ophthalmol, 2010. **120**(1): p. 41-50.
2094. Angelini, D.J., et al., *Hypoxia-induced mitogenic factor (HIMF/FIZZ1/RELM α) recruits bone marrow-derived cells to the murine pulmonary vasculature*. PLoS One, 2010. **5**(6): p. e11251.
2095. Aryee, D.N., et al., *Hypoxia modulates EWS-FLI1 transcriptional signature and enhances the malignant properties of Ewing's sarcoma cells in vitro*. Cancer Res, 2010. **70**(10): p. 4015-23.
2096. Badiwala, M.V., et al., *Epidermal growth factor-like domain 7 suppresses intercellular adhesion molecule 1 expression in response to hypoxia/reoxygenation injury in human coronary artery endothelial cells*. Circulation, 2010. **122**(11 Suppl): p. S156-61.
2097. Balasubramaniam, V., et al., *Bone marrow-derived angiogenic cells restore lung alveolar and vascular structure after neonatal hyperoxia in infant mice*. Am J Physiol Lung Cell Mol Physiol, 2010. **298**(3): p. L315-23.
2098. Banerjee, D., et al., *A novel role of gap junction connexin46 protein to protect breast tumors from hypoxia*. Int J Cancer, 2010. **127**(4): p. 839-48.
2099. Belik, J., et al., *Pulmonary vascular and cardiac effects of peroxynitrite decomposition in newborn rats*. Free Radic Biol Med, 2010. **49**(8): p. 1306-14.
2100. Belloni, D., et al., *Bortezomib induces autophagic death in proliferating human endothelial cells*. Exp Cell Res, 2010. **316**(6): p. 1010-8.

2101. Bucher, R.M., et al., *The structure of the FnIII Tandem A77-A78 points to a periodically conserved architecture in the myosin-binding region of titin*. J Mol Biol, 2010. **401**(5): p. 843-53.
2102. Budd, S.J. and M.E. Hartnett, *Increased angiogenic factors during avascular retina prior to neovascularization in ROP model*. Archives of ophthalmology, 2010. **128**(5): p. 589.
2103. Carvalho, C., et al., *Chronic hypoxia potentiates age-related oxidative imbalance in brain vessels and synaptosomes*. Curr Neurovasc Res, 2010. **7**(4): p. 288-300.
2104. Chachques, J.C., *Development of bioartificial myocardium using stem cells and nanobiotechnology templates*. Cardiology research and practice, 2010. **2011**.
2105. Chacko, S.M., et al., *Hypoxic preconditioning induces the expression of prosurvival and proangiogenic markers in mesenchymal stem cells*. Am J Physiol Cell Physiol, 2010. **299**(6): p. C1562-70.
2106. Chang, T.-T., et al., *Hypoxia-mediated down-regulation of OCTN2 and PPAR α expression in human placentas and in BeWo cells*. Molecular pharmaceutics, 2010. **8**(1): p. 117-125.
2107. Chen, Q., et al., *Adipose-derived stem cells modified genetically in vivo promote reconstruction of bone defects*. Cytotherapy, 2010. **12**(6): p. 831-40.
2108. Chikaraishi, Y., et al., *Angiostatic effects of Brazilian green propolis and its chemical constituents*. Mol Nutr Food Res, 2010. **54**(4): p. 566-75.
2109. Chiu, C.Z., et al., *Angiotensin II and the ERK pathway mediate the induction of myocardin by hypoxia in cultured rat neonatal cardiomyocytes*. Clin Sci (Lond), 2010. **119**(7): p. 273-82.
2110. Chua, Y.L., et al., *Stabilization of hypoxia-inducible factor-1 α protein in hypoxia occurs independently of mitochondrial reactive oxygen species production*. Journal of Biological Chemistry, 2010. **285**(41): p. 31277-31284.
2111. Corzo, C.A., et al., *HIF-1 α regulates function and differentiation of myeloid-derived suppressor cells in the tumor microenvironment*. The Journal of experimental medicine, 2010. **207**(11): p. 2439-2453.
2112. Darby, C.M. and C.F. Nathan, *Killing of non-replicating Mycobacterium tuberculosis by 8-hydroxyquinoline*. J Antimicrob Chemother, 2010. **65**(7): p. 1424-7.
2113. Davis, N.F., et al., *Xenogenic extracellular matrices as potential biomaterials for interposition grafting in urological surgery*. J Urol, 2010. **184**(6): p. 2246-53.
2114. DeNiro, M., et al., *Pleiotropic effects of YC-1 selectively inhibit pathological retinal neovascularization and promote physiological revascularization in a mouse model of oxygen-induced retinopathy*. Mol Pharmacol, 2010. **77**(3): p. 348-67.
2115. Dos Santos, F., et al., *Ex vivo expansion of human mesenchymal stem cells: a more effective cell proliferation kinetics and metabolism under hypoxia*. J Cell Physiol, 2010. **223**(1): p. 27-35.
2116. Douglas, R.M., et al., *Neuronal death during combined intermittent hypoxia/hypercapnia is due to mitochondrial dysfunction*. American Journal of Physiology-Cell Physiology, 2010. **298**(6): p. C1594-C1602.

2117. Dyugovskaya, L. and A. Polyakov, *Neutrophil apoptosis and hypoxia*. International Journal of Physiology and Pathophysiology, 2010. **1**(4).
2118. Farrell, M.R., et al., *Thioredoxin-interacting protein inhibits hypoxia-inducible factor transcriptional activity*. Free Radic Biol Med, 2010. **49**(9): p. 1361-7.
2119. Farrow, K.N., et al., *Mitochondrial oxidant stress increases PDE5 activity in persistent pulmonary hypertension of the newborn*. Respir Physiol Neurobiol, 2010. **174**(3): p. 272-81.
2120. Fernandes, T.G., et al., *Different stages of pluripotency determine distinct patterns of proliferation, metabolism, and lineage commitment of embryonic stem cells under hypoxia*. Stem Cell Res, 2010. **5**(1): p. 76-89.
2121. Finney, M.R., et al., *Umbilical cord blood-selected CD133(+) cells exhibit vasculogenic functionality in vitro and in vivo*. Cytotherapy, 2010. **12**(1): p. 67-78.
2122. Fung, T., R. Liang, and A. Leung, *Functional characterisation of a novel nucleoporin gene NUP98 in zebrafish embryo*. Hong Kong Medical Journal, 2010. **16**(suppl. 1): p. 21-21.
2123. Gary-Bobo, G., et al., *Effects of HIV protease inhibitors on progression of monocrotaline-and hypoxia-induced pulmonary hypertension in rats*. Circulation, 2010. **122**(19): p. 1937-1947.
2124. Gauster, M., et al., *Caspases rather than calpains mediate remodelling of the fodrin skeleton during human placental trophoblast fusion*. Cell Death & Differentiation, 2010. **17**(2): p. 336-345.
2125. Gharib, S.A., et al., *Intermittent hypoxia mobilizes bone marrow-derived very small embryonic-like stem cells and activates developmental transcriptional programs in mice*. Sleep, 2010. **33**(11): p. 1439.
2126. Goolaerts, A., et al., *Serotonin decreases alveolar epithelial fluid transport via a direct inhibition of the epithelial sodium channel*. Am J Respir Cell Mol Biol, 2010. **43**(1): p. 99-108.
2127. Gozal, D., D. Nair, and A.D. Goldbart, *Physical activity attenuates intermittent hypoxia-induced spatial learning deficits and oxidative stress*. Am J Respir Crit Care Med, 2010. **182**(1): p. 104-12.
2128. Guan, Y., et al., *G-rich oligonucleotides inhibit HIF-1 α and HIF-2 α and block tumor growth*. Molecular Therapy, 2010. **18**(1): p. 188-197.
2129. Guo, J., et al., *Estrogen-receptor-mediated protection of cerebral endothelial cell viability and mitochondrial function after ischemic insult in vitro*. J Cereb Blood Flow Metab, 2010. **30**(3): p. 545-54.
2130. Hamady, Z.Z., et al., *Xylan-regulated delivery of human keratinocyte growth factor-2 to the inflamed colon by the human anaerobic commensal bacterium Bacteroides ovatus*. Gut, 2010. **59**(4): p. 461-9.
2131. Han, Q., et al., *Modification of serum adiponectin and CINC-1 levels by intermittent hypoxia and/or hyperlipidemia in vivo*. Hong Kong Medical Journal, 2010. **16**: p. 22-22.
2132. Han, Q., et al., *Effects of intermittent hypoxia on A/E-FABP expression in human aortic endothelial cells*. Int J Cardiol, 2010. **145**(2): p. 396-398.

2133. Hartnett, M.E., *The effects of oxygen stresses on the development of features of severe retinopathy of prematurity: knowledge from the 50/10 OIR model*. Doc Ophthalmol, 2010. **120**(1): p. 25-39.
2134. Heywood, H.K. and D.A. Lee, *Low oxygen reduces the modulation to an oxidative phenotype in monolayer-expanded chondrocytes*. J Cell Physiol, 2010. **222**(1): p. 248-53.
2135. Honore, J.-C., et al., *Sustained hypercapnia induces cerebral microvascular degeneration in the immature brain through induction of nitrative stress*. American Journal of Physiology-Regulatory, Integrative and Comparative Physiology, 2010. **298**(6): p. R1522-R1530.
2136. Hsia, C.C., et al., *The preparation and biological characterization of a new HL91-derivative for hypoxic imaging on stroke mice*. Appl Radiat Isot, 2010. **68**(9): p. 1610-5.
2137. Hsieh, C.H., et al., *Cycling hypoxia increases U87 glioma cell radioresistance via ROS induced higher and long-term HIF-1 signal transduction activity*. Oncol Rep, 2010. **24**(6): p. 1629-36.
2138. Huang, J., et al., *Cyclic intermittent hypoxia enhances renal sympathetic response to ICV ET-1 in conscious rats*. Respir Physiol Neurobiol, 2010. **171**(2): p. 83-9.
2139. Ivanovic, Z., et al., *CD34+ cells obtained from "good mobilizers" are more activated and exhibit lower ex vivo expansion efficiency than their counterparts from "poor mobilizers"*. Transfusion, 2010. **50**(1): p. 120-127.
2140. Jackson, R.M. and C. Gupta, *Hypoxia and kinase activity regulate lung epithelial cell glutathione*. Exp Lung Res, 2010. **36**(1): p. 45-56.
2141. Jankov, R.P., et al., *Peroxynitrite mediates right-ventricular dysfunction in nitric oxide-exposed juvenile rats*. Free Radic Biol Med, 2010. **49**(9): p. 1453-67.
2142. Johnston, L.C., et al., *Opposing regulation of human alveolar type II cell differentiation by nitric oxide and hyperoxia*. Pediatr Res, 2010. **67**(5): p. 521-5.
2143. Julien, C.A., V. Joseph, and A. Bairam, *Caffeine reduces apnea frequency and enhances ventilatory long-term facilitation in rat pups raised in chronic intermittent hypoxia*. Pediatr Res, 2010. **68**(2): p. 105-11.
2144. Jun, J., et al., *Effect of intermittent hypoxia on atherosclerosis in apolipoprotein E-deficient mice*. Atherosclerosis, 2010. **209**(2): p. 381-6.
2145. Kapitsinou, P.P., et al., *Hepatic HIF-2 regulates erythropoietic responses to hypoxia in renal anemia*. Blood, 2010. **116**(16): p. 3039-48.
2146. Keysar, S.B., et al., *Hypoxia/reoxygenation-induced mutations in mammalian cells detected by the flow cytometry mutation assay and characterized by mutant spectrum*. Radiat Res, 2010. **173**(1): p. 21-6.
2147. Kim, E.J., et al., *Post microtextures accelerate cell proliferation and osteogenesis*. Acta Biomater, 2010. **6**(1): p. 160-9.
2148. Kim, E.J., et al., *Ischemic preconditioning mediates cyclooxygenase-2 expression via nuclear factor-kappa B activation in mixed cortical neuronal cultures*. Transl Stroke Res, 2010. **1**(1): p. 40-7.
2149. Kim, E.K., et al., *Rosiglitazone attenuates hypoxia-induced pulmonary arterial hypertension in rats*. Respirology, 2010. **15**(4): p. 659-68.

2150. Kittler, S., et al., *Toxicity of silver nanoparticles increases during storage because of slow dissolution under release of silver ions*. Chem. Mater, 2010. **22**(16): p. 4548-4554.
2151. Kline, D.D., et al., *Sensory afferent and hypoxia-mediated activation of nucleus tractus solitarius neurons that project to the rostral ventrolateral medulla*. Neuroscience, 2010. **167**(2): p. 510-527.
2152. Kondrikov, D., et al., *eNOS- β -actin interaction contributes to increased peroxynitrite formation during hyperoxia in pulmonary artery endothelial cells and mouse lungs*. Journal of Biological Chemistry, 2010. **285**(46): p. 35479-35487.
2153. Konsavage, W., et al., *Hyperoxia inhibits protein synthesis and increases eIF2 α phosphorylation in the newborn rat lung*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2010. **298**(5): p. L678-L686.
2154. Kovalovsky, D., et al., *A novel TCR transgenic model reveals that negative selection involves an immediate, Bim-dependent pathway and a delayed, Bim-independent pathway*. PloS one, 2010. **5**(1): p. e8675-e8675.
2155. Krishnamoorthy, S., et al., *12-Lipoxygenase and the regulation of hypoxia-inducible factor in prostate cancer cells*. Exp Cell Res, 2010. **316**(10): p. 1706-15.
2156. Kuniyoshi, K.M., et al., *Effects of combined hyperoxia and cyclooxygenase inhibition in neonatal rat lungs*. Am J Transl Res, 2010. **2**(3): p. 332-44.
2157. Langer, H.F., et al., *Complement-mediated inhibition of neovascularization reveals a point of convergence between innate immunity and angiogenesis*. Blood, 2010. **116**(22): p. 4395-4403.
2158. Lee, T.C., et al., *Utilizing liver-specific microRNA-122 to modulate replication of dengue virus replicon*. Biochem Biophys Res Commun, 2010. **396**(3): p. 596-601.
2159. Lerman, O.Z., et al., *Low-dose radiation augments vasculogenesis signaling through HIF-1-dependent and-independent SDF-1 induction*. Blood, 2010. **116**(18): p. 3669-3676.
2160. Leroux, L., et al., *Hypoxia preconditioned mesenchymal stem cells improve vascular and skeletal muscle fiber regeneration after ischemia through a Wnt4-dependent pathway*. Molecular Therapy, 2010. **18**(8): p. 1545-1552.
2161. Li, J., et al., *Inhibition of reactive oxygen species by Lovastatin downregulates vascular endothelial growth factor expression and ameliorates blood-retinal barrier breakdown in db/db mice: role of NADPH oxidase 4*. Diabetes, 2010. **59**(6): p. 1528-38.
2162. Li, L., J.V. Welser, and R. Milner, *Absence of the $\alpha v \beta 3$ integrin dictates the time-course of angiogenesis in the hypoxic central nervous system: accelerated endothelial proliferation correlates with compensatory increases in $\alpha 5 \beta 1$ integrin expression*. Journal of Cerebral Blood Flow & Metabolism, 2010. **30**(5): p. 1031-1043.
2163. Lin, C.H., et al., *Attenuating ischemia-induced H9c2 myoblasts apoptosis by therapeutic hypothermia*. Am J Med Sci, 2010. **339**(3): p. 258-65.

2164. Lin, X., et al., *Poly(ethylene glycol)-radix Ophiopogonis polysaccharide conjugates: preparation, characterization, pharmacokinetics and in vitro bioactivity*. Eur J Pharm Biopharm, 2010. **76**(2): p. 230-7.
2165. Lou, J.J.W., et al., *Inhibition of hypoxia-inducible factor-1 α (HIF-1 α) protein synthesis by DNA damage inducing agents*. PloS one, 2010. **5**(5): p. e10522.
2166. Louie, E., et al., *Identification of a stem-like cell population by exposing metastatic breast cancer cell lines to repetitive cycles of hypoxia and reoxygenation*. Breast Cancer Res, 2010. **12**(6): p. R94.
2167. Lu, J., et al., *Effect of Hypoxic Stress–Activated Polo-like Kinase 3 on Corneal Epithelial Wound Healing*. Investigative ophthalmology & visual science, 2010. **51**(10): p. 5034.
2168. Lu, X., et al., *PPAR γ regulates hypoxia-induced Nox4 expression in human pulmonary artery smooth muscle cells through NF- κ B*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2010. **299**(4): p. L559-L566.
2169. Lu, Y., et al., *1, 9-Pyrazoloanthrones Downregulate HIF-1 α and Sensitize Cancer Cells to Cetuximab-Mediated Anti-EGFR Therapy*. PloS one, 2010. **5**(12): p. e15823.
2170. Ma, Z., et al., *Mitochondrial F1Fo-ATP synthase translocates to cell surface in hepatocytes and has high activity in tumor-like acidic and hypoxic environment*. Acta biochimica et biophysica Sinica, 2010. **42**(8): p. 530-537.
2171. Magdolen, U., et al., *Spontaneous in vitro transformation of primary human osteoblast-like cells*. Cancer Genomics Proteomics, 2010. **7**(2): p. 61-6.
2172. Magnussen, A.L., et al., *VEGF-A165b is cytoprotective and antiangiogenic in the retina*. Investigative ophthalmology & visual science, 2010. **51**(8): p. 4273-4281.
2173. Mam, V., et al., *Impaired vasoconstriction and nitric oxide-mediated relaxation in pulmonary arteries of hypoxia- and monocrotaline-induced pulmonary hypertensive rats*. J Pharmacol Exp Ther, 2010. **332**(2): p. 455-62.
2174. McVicar, C.M., et al., *Differential modulation of angiogenesis by erythropoiesis-stimulating agents in a mouse model of ischaemic retinopathy*. PLoS One, 2010. **5**(7): p. e11870.
2175. Medina, R.J., et al., *Outgrowth endothelial cells: characterization and their potential for reversing ischemic retinopathy*. Invest Ophthalmol Vis Sci, 2010. **51**(11): p. 5906-5913.
2176. Monirabbasi, S. and S. Gibson, *Adaptive control in an adaptive optics experiment*. J Opt Soc Am A Opt Image Sci Vis, 2010. **27**(11): p. A84-96.
2177. Moser, G., et al., *Endoglandular trophoblast, an alternative route of trophoblast invasion? Analysis with novel confrontation co-culture models*. Hum Reprod, 2010. **25**(5): p. 1127-36.
2178. Murakami, K., et al., *Smurf1 ubiquitin ligase causes downregulation of BMP receptors and is induced in monocrotaline and hypoxia models of pulmonary arterial hypertension*. Experimental biology and medicine, 2010. **235**(7): p. 805-813.
2179. Nakamura, S., et al., *Ruboxistaurin, a PKC β inhibitor, inhibits retinal neovascularization via suppression of phosphorylation of ERK1/2 and Akt*. Experimental eye research, 2010. **90**(1): p. 137-145.

2180. Napier, C.E., et al., *Mild hyperoxia limits hTR levels, telomerase activity, and telomere length maintenance in hTERT-transduced bone marrow endothelial cells*. Biochim Biophys Acta, 2010. **1803**(10): p. 1142-53.
2181. Navarathna, D.H. and D.D. Roberts, *Candida albicans heme oxygenase and its product CO contribute to pathogenesis of candidemia and alter systemic chemokine and cytokine expression*. Free Radic Biol Med, 2010. **49**(10): p. 1561-73.
2182. Nisbet, R.E., et al., *Rosiglitazone attenuates chronic hypoxia-induced pulmonary hypertension in a mouse model*. American journal of respiratory cell and molecular biology, 2010. **42**(4): p. 482-490.
2183. Nishiguchi, K.M., et al., *Regulation of pathologic retinal angiogenesis in mice and inhibition of VEGF-VEGFR2 binding by soluble heparan sulfate*. PLoS One, 2010. **5**(10): p. e13493.
2184. Pocock, R. and O. Hobert, *Hypoxia activates a latent circuit for processing gustatory information in C. elegans*. Nat Neurosci, 2010. **13**(5): p. 610-4.
2185. Polyakov, A., et al., *Intermittent hypoxia-induced neutrophil survival is mediated via mitochondrial pathways by MAP kinases activation*. Am J Respir Crit Care Med, 2010. **181**: p. A6635.
2186. Powers, D.E., et al., *Accurate control of oxygen level in cells during culture on silicone rubber membranes with application to stem cell differentiation*. Biotechnol Prog, 2010. **26**(3): p. 805-18.
2187. Rey, B., et al., *Oxygen recovery up-regulates avian UCP and ANT in newly hatched ducklings*. J Comp Physiol B, 2010. **180**(2): p. 239-46.
2188. Reynolds, P.R., et al., *Receptors for advanced glycation end-products targeting protect against hyperoxia-induced lung injury in mice*. Am J Respir Cell Mol Biol, 2010. **42**(5): p. 545-51.
2189. Rocuts, F., et al., *Carbon monoxide suppresses membrane expression of TLR4 via myeloid differentiation factor-2 in β TC3 cells*. The Journal of Immunology, 2010. **185**(4): p. 2134-2139.
2190. Rodrigues, C.A., et al., *Hypoxia enhances proliferation of mouse embryonic stem cell-derived neural stem cells*. Biotechnol Bioeng, 2010. **106**(2): p. 260-70.
2191. Russell, K.C., et al., *In vitro high-capacity assay to quantify the clonal heterogeneity in trilineage potential of mesenchymal stem cells reveals a complex hierarchy of lineage commitment*. Stem Cells, 2010. **28**(4): p. 788-98.
2192. Ryu, J., et al., *Chronic hypercapnia alters lung matrix composition in mouse pups*. J Appl Physiol (1985), 2010. **109**(1): p. 203-10.
2193. Sander, E.A. and E.A. Nauman, *Effects of reduced oxygen and glucose levels on ocular cells in vitro: implications for tissue models*. Cells Tissues Organs, 2010. **191**(2): p. 141-51.
2194. Sato, T., et al., *Effect of hypoxia on susceptibility of RGC-5 cells to nitric oxide*. Invest Ophthalmol Vis Sci, 2010. **51**(5): p. 2575-86.
2195. Screen, P.-e., *Gene expression and phenotypic characterization of*. Physiol. Genomics, 2010. **41**(3): p. 275-288.
2196. Shen, G.M., et al., *Hypoxia-inducible factor 1-mediated regulation of PPP1R3C promotes glycogen accumulation in human MCF-7 cells under hypoxia*. FEBS Lett, 2010. **584**(20): p. 4366-72.

2197. Shen, Y., et al., *Effect of Tetramethylpyrazine on RPE degeneration, choroidal blood flow and oxidative stress of RPE cells*. Int J Ophthalmol, 2010. **3**(3): p. 205-10.
2198. Shimada, N., et al., *Cathepsin L in bone marrow-derived cells is required for retinal and choroidal neovascularization*. The American journal of pathology, 2010. **176**(5): p. 2571-2580.
2199. Skinner, H.C.C., M.T. Crow, and R.A. Johns, *Hypoxia-induced mitogenic factor*. Chest, 2010. **137**(6 suppl): p. 20S-29S.
2200. Sugiyama, T., et al., *Involvement of P2X7 receptors in the hypoxia-induced death of rat retinal neurons*. Invest Ophthalmol Vis Sci, 2010. **51**(6): p. 3236-43.
2201. Sutendra, G., et al., *Fatty acid oxidation and malonyl-CoA decarboxylase in the vascular remodeling of pulmonary hypertension*. Sci Transl Med, 2010. **2**(44): p. 44ra58.
2202. Sweet, R., A. Paul, and J. Zastre, *Hypoxia induced upregulation and function of the thiamine transporter, SLC19A3 in a breast cancer cell line*. Cancer Biol Ther, 2010. **10**(11): p. 1101-11.
2203. Tang, J.R., et al., *Moderate postnatal hyperoxia accelerates lung growth and attenuates pulmonary hypertension in infant rats after exposure to intra-amniotic endotoxin*. Am J Physiol Lung Cell Mol Physiol, 2010. **299**(6): p. L735-48.
2204. Tate, C.C., et al., *Human mesenchymal stromal cells and their derivative, SB623 cells, rescue neural cells via trophic support following in vitro ischemia*. Cell transplantation, 2010. **19**(8): p. 973-984.
2205. Taylor, A.C., et al., *Chronic whole-body hypoxia induces intussusceptive angiogenesis and microvascular remodeling in the mouse retina*. Microvasc Res, 2010. **79**(2): p. 93-101.
2206. Tseng, W.P., et al., *Hypoxia induces BMP-2 expression via ILK, Akt, mTOR, and HIF-1 pathways in osteoblasts*. J Cell Physiol, 2010. **223**(3): p. 810-8.
2207. Vadivel, A., et al., *Adrenomedullin promotes lung angiogenesis, alveolar development, and repair*. Am J Respir Cell Mol Biol, 2010. **43**(2): p. 152-60.
2208. Vadivel, A., et al., *L-citrulline attenuates arrested alveolar growth and pulmonary hypertension in oxygen-induced lung injury in newborn rats*. Pediatr Res, 2010. **68**(6): p. 519-25.
2209. Van Raemdonck, D., *Thoracic organs: current preservation technology and future prospects; part 1: lung*. Curr Opin Organ Transplant, 2010. **15**(2): p. 150-5.
2210. Vermehren-Schmaedick, A., et al., *Behavioral responses to hypoxia in Drosophila larvae are mediated by atypical soluble guanylyl cyclases*. Genetics, 2010. **186**(1): p. 183-96.
2211. Wang, N., et al., *Elevated CO2 selectively inhibits interleukin-6 and tumor necrosis factor expression and decreases phagocytosis in the macrophage*. FASEB J, 2010. **24**(7): p. 2178-90.
2212. Wang, S., et al., *Rapid and dynamic alterations of gene expression profiles of adult porcine bone marrow-derived stem cell in response to hypoxia*. Stem Cell Res, 2010. **4**(2): p. 117-28.

2213. Wang, Y., et al., *Role of the G-protein and tyrosine kinase—Rho/ROK pathways in 15-hydroxyeicosatetraenoic acid induced pulmonary vasoconstriction in hypoxic rats*. Journal of biochemistry, 2010. **147**(5): p. 751-764.
2214. Weidemann, A., et al., *Astrocyte hypoxic response is essential for pathological but not developmental angiogenesis of the retina*. Glia, 2010. **58**(10): p. 1177-1185.
2215. Welch, L.C., et al., *Extracellular signal-regulated kinase (ERK) participates in the hypercapnia-induced Na,K-ATPase downregulation*. FEBS Lett, 2010. **584**(18): p. 3985-9.
2216. Weli, S.C., et al., *Notch and hedgehog signaling cooperate to maintain self-renewal of human embryonic stem cells exposed to low oxygen concentration*. Int J Stem Cells, 2010. **3**(2): p. 129-37.
2217. Wendler, C.C., et al., *Identification of the heart as the critical site of adenosine mediated embryo protection*. BMC developmental biology, 2010. **10**(1): p. 57.
2218. White, T.A., et al., *Tissue factor pathway inhibitor overexpression inhibits hypoxia-induced pulmonary hypertension*. Am J Respir Cell Mol Biol, 2010. **43**(1): p. 35-45.
2219. Whitehouse, J.S., et al., *The protective role of intestinal alkaline phosphatase in necrotizing enterocolitis*. J Surg Res, 2010. **163**(1): p. 79-85.
2220. Whitehouse, J.S., et al., *Mesenteric nitric oxide and superoxide production in experimental necrotizing enterocolitis*. J Surg Res, 2010. **161**(1): p. 1-8.
2221. Wright, C.J., et al., *NO Inhibits Hyperoxia-Induced NF- κ B Activation in Neonatal Pulmonary Microvascular Endothelial Cells*. Pediatric research, 2010. **68**(6): p. 484-489.
2222. Xie, H., et al., *Brain-derived neurotrophic factor rescues and prevents chronic intermittent hypoxia-induced impairment of hippocampal long-term synaptic plasticity*. Neurobiol Dis, 2010. **40**(1): p. 155-62.
2223. Yamaji-Kegan, K., et al., *Hypoxia-Induced Mitogenic Factor (HIMF/FIZZ1/RELM α) Increases Lung Inflammation and Activates Pulmonary Microvascular Endothelial Cells via an IL-4–Dependent Mechanism*. The Journal of Immunology, 2010. **185**(9): p. 5539-5548.
2224. Yan, S., P. Jennifer M, and D. Wenbin, *Mouse models of periventricular leukomalacia*. Journal of Visualized Experiments, 2010(39).
2225. Yang, H.Y., et al., *Proteomic analysis of protein expression affected by peroxiredoxin V knock-down in hypoxic kidney*. J Proteome Res, 2010. **9**(8): p. 4003-15.
2226. Yang, X., et al., *Inhibition of Na(+)/H(+) exchanger 1 by 5-(N-ethyl-N-isopropyl) amiloride reduces hypoxia-induced hepatocellular carcinoma invasion and motility*. Cancer Lett, 2010. **295**(2): p. 198-204.
2227. Yanni, S.E., G.W. McCollum, and J.S. Penn, *Genetic deletion of COX-2 diminishes VEGF production in mouse retinal Muller cells*. Exp Eye Res, 2010. **91**(1): p. 34-41.
2228. Yeung, S., et al., *Modification of circulating and cardiac expressions of adiponectin and CINC-1 by intermittent hypoxia in vivo*. Am J Respir Crit Care Med, 2010. **181**: p. A3702.

2229. Ying, M., et al., *Phenylalanine hydroxylase expression in primary rat hepatocytes is modulated by oxygen concentration*. Molecular genetics and metabolism, 2010. **101**(2): p. 279-281.
2230. You, J.-J., et al., *Regulation of Cyr61/CCN1 expression by hypoxia through cooperation of c-Jun/AP-1 and HIF-1 α in retinal vascular endothelial cells*. Experimental eye research, 2010. **91**(6): p. 825-836.
2231. Zachar, V., et al., *The effect of human embryonic stem cells (hESCs) long-term normoxic and hypoxic cultures on the maintenance of pluripotency*. In Vitro Cell Dev Biol Anim, 2010. **46**(3-4): p. 276-83.
2232. Zhang, N., et al., *The asparaginyl hydroxylase factor inhibiting HIF-1 α is an essential regulator of metabolism*. Cell metabolism, 2010. **11**(5): p. 364-378.
2233. Zhang, Q., et al., *PLD1-dependent PKC γ activation downstream to Src is essential for the development of pathologic retinal neovascularization*. Blood, 2010. **116**(8): p. 1377-1385.
2234. Zhou, X., et al., *Hypoxia induces trimethylated H3 lysine 4 by inhibition of JARID1A demethylase*. Cancer Res, 2010. **70**(10): p. 4214-21.
2235. Zhu, Y., et al., *Differential gene expression in mouse retina related to regional differences in vulnerability to hyperoxia*. Mol Vis, 2010. **16**: p. 740-55.
2236. Zhu, Y., K. Valter, and J. Stone, *Environmental damage to the retina and preconditioning: contrasting effects of light and hyperoxic stress*. Invest Ophthalmol Vis Sci, 2010. **51**(9): p. 4821-30.
2237. Zhuang, P., Y. Shen, and G.C. Chiou, *Effects of flavone on the oxidation-induced injury of retinal pigment epithelium cells*. Int J Ophthalmol, 2010. **3**(2): p. 99-103.
2238. Ziino, A.J., et al., *Effects of rho-kinase inhibition on pulmonary hypertension, lung growth, and structure in neonatal rats chronically exposed to hypoxia*. Pediatr Res, 2010. **67**(2): p. 177-82.
2239. Adler, J.R., Jr., et al., *Nonisocentric radiosurgical rhizotomy for trigeminal neuralgia*. Neurosurgery, 2009. **64**(2 Suppl): p. A84-90.
2240. Agca, C., W.H. Klein, and J.M. Venuti, *Reduced O₂ and elevated ROS in sea urchin embryos leads to defects in ectoderm differentiation*. Dev Dyn, 2009. **238**(7): p. 1777-87.
2241. Ai, J., et al., *Vagal afferent innervation and remodeling in the aortic arch of young-adult fischer 344 rats following chronic intermittent hypoxia*. Neuroscience, 2009. **164**(2): p. 658-66.
2242. Andersen, A.D., et al., *HL-1 mouse cardiomyocyte injury and death after simulated ischemia and reperfusion: roles of pH, Ca²⁺-independent phospholipase A₂, and Na⁺/H⁺ exchange*. Am J Physiol Cell Physiol, 2009. **296**(5): p. C1227-42.
2243. Angelini, D.J., et al., *Hypoxia-induced mitogenic factor (HIMF/FIZZ1/RELM α) induces the vascular and hemodynamic changes of pulmonary hypertension*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2009. **296**(4): p. L582-L593.
2244. Aslam, M., et al., *Bone marrow stromal cells attenuate lung injury in a murine model of neonatal chronic lung disease*. Am J Respir Crit Care Med, 2009. **180**(11): p. 1122-30.

2245. Azad, P., et al., *Distinct mechanisms underlying tolerance to intermittent and constant hypoxia in Drosophila melanogaster*. PLoS One, 2009. **4**(4): p. e5371.
2246. Basu, A., et al., *Plasminogen activator inhibitor-1 (PAI-1) facilitates retinal angiogenesis in a model of oxygen-induced retinopathy*. Invest Ophthalmol Vis Sci, 2009. **50**(10): p. 4974-81.
2247. Beck, J.M., et al., *Critical roles of inflammation and apoptosis in improved survival in a model of hyperoxia-induced acute lung injury in Pneumocystis murina-infected mice*. Infect Immun, 2009. **77**(3): p. 1053-60.
2248. Beerman, T.A., et al., *C-1027, a radiomimetic enediyne anticancer drug, preferentially targets hypoxic cells*. Cancer Res, 2009. **69**(2): p. 593-8.
2249. Belik, J., et al., *Chronic hypercapnia downregulates arginase expression and activity and increases pulmonary arterial smooth muscle relaxation in the newborn rat*. Am J Physiol Lung Cell Mol Physiol, 2009. **297**(4): p. L777-84.
2250. Bianco, C., et al., *Cripto-1 is required for hypoxia to induce cardiac differentiation of mouse embryonic stem cells*. The American journal of pathology, 2009. **175**(5): p. 2146-2158.
2251. Bodiga, S., et al., *Protective actions of epoxyeicosatrienoic acid: Dual targeting of cardiovascular PI3K and K ATP channels*. Journal of molecular and cellular cardiology, 2009. **46**(6): p. 978-988.
2252. Boswell, M.G., et al., *Comparison of gene expression responses to hypoxia in viviparous (Xiphophorus) and oviparous (Oryzias) fishes using a medaka microarray*. Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology, 2009. **149**(2): p. 258-265.
2253. Budd, S., et al., *Reduction in endothelial tip cell filopodia corresponds to reduced intravitreal but not intraretinal vascularization in a model of ROP*. Experimental eye research, 2009. **89**(5): p. 718-727.
2254. Bui, T., et al., *ZEB1 links p63 and p73 in a novel neuronal survival pathway rapidly induced in response to cortical ischemia*. PLoS One, 2009. **4**(2): p. e4373.
2255. Byfield, G., S. Budd, and M.E. Hartnett, *Supplemental oxygen can cause intravitreal neovascularization through JAK/STAT pathways in a model of retinopathy of prematurity*. Investigative ophthalmology & visual science, 2009. **50**(7): p. 3360.
2256. Byfield, G., S. Budd, and M.E. Hartnett, *The role of supplemental oxygen and JAK/STAT signaling in intravitreal neovascularization in a ROP rat model*. Invest Ophthalmol Vis Sci, 2009. **50**(7): p. 3360-5.
2257. Cadena, V. and G.J. Tattersall, *Decreased precision contributes to the hypoxic thermoregulatory response in lizards*. J Exp Biol, 2009. **212**(Pt 1): p. 137-44.
2258. Caron, M.A., et al., *Hypoxia alters contractile protein homeostasis in L6 myotubes*. FEBS Lett, 2009. **583**(9): p. 1528-34.
2259. Casanello, P., et al., *Reduced L-arginine transport and nitric oxide synthesis in human umbilical vein endothelial cells from intrauterine growth restriction pregnancies is not further altered by hypoxia*. Placenta, 2009. **30**(7): p. 625-633.
2260. Chahboune, H., et al., *Hypoxic injury during neonatal development in murine brain: correlation between in vivo DTI findings and behavioral assessment*. Cerebral Cortex, 2009. **19**(12): p. 2891-2901.

2261. Chikaraishi, Y., et al., *CB-12181, a new azasugar-based matrix metalloproteinase/tumor necrosis factor- α converting enzyme inhibitor, inhibits vascular endothelial growth factor-induced angiogenesis in vitro and retinal neovascularization in vivo*. *Curr Neurovasc Res*, 2009. **6**(3): p. 140-7.
2262. Connor, K.M., et al., *Quantification of oxygen-induced retinopathy in the mouse: a model of vessel loss, vessel regrowth and pathological angiogenesis*. *Nat Protoc*, 2009. **4**(11): p. 1565-73.
2263. Costello, J., et al., *Hypercapnic acidosis attenuates shock and lung injury in early and prolonged systemic sepsis*. *Crit Care Med*, 2009. **37**(8): p. 2412-20.
2264. Crosson, L.A., et al., *Gene expression patterns in hypoxic and post-hypoxic adult rat retina with special reference to the NMDA receptor and its interactome*. *Mol Vis*, 2009. **15**: p. 296-311.
2265. Das, S., et al., *Effects of chronic hypercapnia in the neonatal mouse lung and brain*. *Pediatr Pulmonol*, 2009. **44**(2): p. 176-82.
2266. DeNiro, M., O. Alsmadi, and F. Al-Mohanna, *Modulating the hypoxia-inducible factor signaling pathway as a therapeutic modality to regulate retinal angiogenesis*. *Experimental eye research*, 2009. **89**(5): p. 700-717.
2267. Dhanasekaran, A., et al., *20-HETE increases survival and decreases apoptosis in pulmonary arteries and pulmonary artery endothelial cells*. *Am J Physiol Heart Circ Physiol*, 2009. **296**(3): p. H777-86.
2268. Dib, M., et al., *A paradoxical protective role for the proinflammatory peptide substance P receptor (NK1R) in acute hyperoxic lung injury*. *Am J Physiol Lung Cell Mol Physiol*, 2009. **297**(4): p. L687-97.
2269. Ding, B., N.C. Kirkiles-Smith, and J.S. Pober, *FOXO3a regulates oxygen-responsive expression of tumor necrosis factor receptor 2 in human dermal microvascular endothelial cells*. *J Biol Chem*, 2009. **284**(29): p. 19331-9.
2270. Donnelly, D.F., et al., *Time course of alterations in pre- and post-synaptic chemoreceptor function during developmental hyperoxia*. *Respir Physiol Neurobiol*, 2009. **168**(3): p. 189-97.
2271. Doroudgar, S., et al., *Ischemia activates the ATF6 branch of the endoplasmic reticulum stress response*. *J Biol Chem*, 2009. **284**(43): p. 29735-45.
2272. Edwards, R.A., et al., *Epigenetic repression of DNA mismatch repair by inflammation and hypoxia in inflammatory bowel disease-associated colorectal cancer*. *Cancer research*, 2009. **69**(16): p. 6423-6429.
2273. El-Ftesi, S., et al., *Aging and diabetes impair the neovascular potential of adipose-derived stromal cells*. *Plast Reconstr Surg*, 2009. **123**(2): p. 475-85.
2274. Foldager, C.B., et al., *Validation of suitable house keeping genes for hypoxia-cultured human chondrocytes*. *BMC Mol Biol*, 2009. **10**(1): p. 94.
2275. Fritzell Jr, J.A., et al., *Fate and effects of adult bone marrow cells in lungs of normoxic and hyperoxic newborn mice*. *American journal of respiratory cell and molecular biology*, 2009. **40**(5): p. 575-587.
2276. Gerber, S.A., et al., *Interferon-gamma induces prolyl hydroxylase (PHD) 3 through a STAT1-dependent mechanism in human endothelial cells*. *Arteriosclerosis, thrombosis, and vascular biology*, 2009. **29**(9): p. 1363-1369.
2277. Guaiquil, V., et al., *ADAM9 is involved in pathological retinal neovascularization*. *Molecular and cellular biology*, 2009. **29**(10): p. 2694-2703.

2278. Guma, M., et al., *Genetic and pharmacological inhibition of JNK ameliorates hypoxia-induced retinopathy through interference with VEGF expression*. Proceedings of the National Academy of Sciences, 2009. **106**(21): p. 8760-8765.
2279. Han, Q., et al., *Effects of Intermittent Hypoxia and/or TNF- α on E- and A-FABP Expression by Human Aortic Endothelial Cells In Vitro*. Am J Respir Crit Care Med, 2009. **179**: p. A1064.
2280. Hasegawa, T., et al., *Suppression of nitrosative and oxidative stress to reduce cardiac allograft vasculopathy*. Am J Physiol Heart Circ Physiol, 2009. **296**(4): p. H1007-16.
2281. Helenius, I.T., et al., *Elevated CO₂ suppresses specific Drosophila innate immune responses and resistance to bacterial infection*. Proc Natl Acad Sci U S A, 2009. **106**(44): p. 18710-5.
2282. Hostetler, K.Y., *Alkoxyalkyl prodrugs of acyclic nucleoside phosphonates enhance oral antiviral activity and reduce toxicity: current state of the art*. Antiviral Res, 2009. **82**(2): p. A84-98.
2283. Howell, K., et al., *L-Arginine promotes angiogenesis in the chronically hypoxic lung: a novel mechanism ameliorating pulmonary hypertension*. Am J Physiol Lung Cell Mol Physiol, 2009. **296**(6): p. L1042-50.
2284. Hsieh, C.H., et al., *Construction of mutant TKGFP for real-time imaging of temporal dynamics of HIF-1 signal transduction activity mediated by hypoxia and reoxygenation in tumors in living mice*. J Nucl Med, 2009. **50**(12): p. 2049-57.
2285. Huang, J., et al., *Sympathetic response to chemostimulation in conscious rats exposed to chronic intermittent hypoxia*. Respir Physiol Neurobiol, 2009. **166**(2): p. 102-6.
2286. Ignacak, M.L., et al., *Intermittent hypoxia regulates RNA polymerase II in hippocampus and prefrontal cortex*. Neuroscience, 2009. **158**(4): p. 1436-45.
2287. Jeanne, M., et al., *Low-oxygen and high-carbon-dioxide atmosphere improves the conservation of hematopoietic progenitors in hypothermia*. Transfusion, 2009. **49**(8): p. 1738-46.
2288. Kamlah, F., et al., *Intravenous injection of siRNA directed against hypoxia-inducible factors prolongs survival in a Lewis lung carcinoma cancer model*. Cancer Gene Ther, 2009. **16**(3): p. 195-205.
2289. Kao, Y.-H., et al., *Serum factors potentiate hypoxia-induced hepatotoxicity in vitro through increasing transforming growth factor- β 1 activation and release*. Cytokine, 2009. **47**(1): p. 11-22.
2290. Keserü, B., et al., *Hypoxia-induced pulmonary hypertension: comparison of soluble epoxide hydrolase deletion versus inhibition*. Cardiovascular research, 2009: p. cvp281.
2291. Kim, E.J., et al., *Modulating human connective tissue progenitor cell behavior on cellulose acetate scaffolds by surface microtextures*. J Biomed Mater Res A, 2009. **90**(4): p. 1198-205.
2292. Klimova, T.A., et al., *Hyperoxia-induced premature senescence requires p53 and pRb, but not mitochondrial matrix ROS*. The FASEB Journal, 2009. **23**(3): p. 783-794.

2293. Kline, D.D., et al., *Dopamine inhibits N-type channels in visceral afferents to reduce synaptic transmitter release under normoxic and chronic intermittent hypoxic conditions*. J Neurophysiol, 2009. **101**(5): p. 2270-8.
2294. Levesque, D.L. and G.J. Tattersall, *Seasonal changes in thermoregulatory responses to hypoxia in the Eastern chipmunk (Tamias striatus)*. J Exp Biol, 2009. **212**(Pt 12): p. 1801-10.
2295. Li, J., et al., *Systemic administration of HMG-CoA reductase inhibitor protects the blood-retinal barrier and ameliorates retinal inflammation in type 2 diabetes*. Experimental eye research, 2009. **89**(1): p. 71-78.
2296. Liu, Y., et al., *Exposure to cyclic intermittent hypoxia increases expression of functional NMDA receptors in the rat carotid body*. J Appl Physiol (1985), 2009. **106**(1): p. 259-67.
2297. Liu, Y.-N., et al., *Evodiamine represses hypoxia-induced inflammatory proteins expression and hypoxia-inducible factor 1 α accumulation in RAW264. 7. Shock*, 2009. **32**(3): p. 263-269.
2298. Lord-Dufour, S., et al., *Evidence for Transcriptional Regulation of the Glucose-6-Phosphate Transporter by HIF-1 α : Targeting G6PT with Mumbaistatin Analogs in Hypoxic Mesenchymal Stromal Cells*. Stem Cells, 2009. **27**(3): p. 489-497.
2299. Lu, D.Y., et al., *Hypoxia-induced matrix metalloproteinase-13 expression in astrocytes enhances permeability of brain endothelial cells*. J Cell Physiol, 2009. **220**(1): p. 163-73.
2300. Lumbroso, D. and V. Joseph, *Impaired acclimatization to chronic hypoxia in adult male and female rats following neonatal hypoxia*. Am J Physiol Regul Integr Comp Physiol, 2009. **297**(2): p. R421-7.
2301. Ma, D.D., et al., *Polyphyllin D exerts potent anti-tumour effects on Lewis cancer cells under hypoxic conditions*. J Int Med Res, 2009. **37**(3): p. 631-40.
2302. Marcantonio, N.A., et al., *The influence of tethered epidermal growth factor on connective tissue progenitor colony formation*. Biomaterials, 2009. **30**(27): p. 4629-38.
2303. Mata, A., et al., *A three-dimensional scaffold with precise micro-architecture and surface micro-textures*. Biomaterials, 2009. **30**(27): p. 4610-7.
2304. Mayoral, S.R., G. Omar, and A.A. Penn, *Sex differences in a hypoxia model of preterm brain damage*. Pediatr Res, 2009. **66**(3): p. 248-53.
2305. Millman, J.R., J.H. Tan, and C.K. Colton, *The effects of low oxygen on self-renewal and differentiation of embryonic stem cells*. Curr Opin Organ Transplant, 2009. **14**(6): p. 694-700.
2306. Mizumura, K., et al., *Apoptosis Signal-regulating Kinase 1-mediated Signalling Pathway Regulates Lipopolysaccharide-induced Tissue Factor Expression in Pulmonary Microvasculature*. Respiriology, 2009. **14**(3): p. A170-A295.
2307. Moroni, F., et al., *Selective PARP-2 inhibitors increase apoptosis in hippocampal slices but protect cortical cells in models of post-ischaemic brain damage*. Br J Pharmacol, 2009. **157**(5): p. 854-62.
2308. Mwaikambo, B.R., et al., *Hypoxia up-regulates CD36 expression and function via hypoxia-inducible factor-1-and phosphatidylinositol 3-kinase-dependent mechanisms*. Journal of Biological Chemistry, 2009. **284**(39): p. 26695-26707.

2309. Negash, S., et al., *Role of cGMP-dependent protein kinase in regulation of pulmonary vascular smooth muscle cell adhesion and migration: effect of hypoxia*. Am J Physiol Heart Circ Physiol, 2009. **297**(1): p. H304-12.
2310. Nicola, T., et al., *Loss of Thy-1 inhibits alveolar development in the newborn mouse lung*. Am J Physiol Lung Cell Mol Physiol, 2009. **296**(5): p. L738-50.
2311. Normann, E., et al., *A novel mouse model of Ureaplasma-induced perinatal inflammation: effects on lung and brain injury*. Pediatr Res, 2009. **65**(4): p. 430-6.
2312. Oh, S.H., et al., *Oxygen generating scaffolds for enhancing engineered tissue survival*. Biomaterials, 2009. **30**(5): p. 757-62.
2313. Paek, K.Y., et al., *Large scale culture of ginseng adventitious roots for production of ginsenosides*. Adv Biochem Eng Biotechnol, 2009. **113**: p. 151-76.
2314. Pajolla, G.P., et al., *Immunoreactivity for neuronal NOS and fluorescent indication of NO formation in the NTS of juvenile rats submitted to chronic intermittent hypoxia*. Autonomic Neuroscience, 2009. **148**(1): p. 55-62.
2315. Pendyala, S., et al., *Role of Nox4 and Nox2 in hyperoxia-induced reactive oxygen species generation and migration of human lung endothelial cells*. Antioxid Redox Signal, 2009. **11**(4): p. 747-64.
2316. Peng, P.H., et al., *Novel role for the delta-opioid receptor in hypoxic preconditioning in rat retinas*. J Neurochem, 2009. **108**(3): p. 741-54.
2317. Pilgaard, L., et al., *Transcriptional signature of human adipose tissue-derived stem cells (hASCs) preconditioned for chondrogenesis in hypoxic conditions*. Exp Cell Res, 2009. **315**(11): p. 1937-52.
2318. Poloni, A., et al., *Selection of CD271(+) cells and human AB serum allows a large expansion of mesenchymal stromal cells from human bone marrow*. Cytotherapy, 2009. **11**(2): p. 153-62.
2319. Prasad, S., et al., *Continuous hypoxic culturing maintains activation of Notch and allows long-term propagation of human embryonic stem cells without spontaneous differentiation*. Cell proliferation, 2009. **42**(1): p. 63-74.
2320. Prows, D.R., et al., *Reciprocal backcross mice confirm major loci linked to hyperoxic acute lung injury survival time*. Physiol Genomics, 2009. **38**(2): p. 158-68.
2321. Ramsey, H.E., et al., *A20 protects mice from lethal liver ischemia/reperfusion injury by increasing peroxisome proliferator-activated receptor-alpha expression*. Liver Transpl, 2009. **15**(11): p. 1613-21.
2322. Reddy, A.J., et al., *Association of human NAD(P)H:quinone oxidoreductase 1 (NQO1) polymorphism with development of acute lung injury*. J Cell Mol Med, 2009. **13**(8B): p. 1784-91.
2323. Redwan el, R.M., *Animal-derived pharmaceutical proteins*. J Immunoassay Immunochem, 2009. **30**(3): p. 262-90.
2324. Rogers, S.C., et al., *Hypoxia limits antioxidant capacity in red blood cells by altering glycolytic pathway dominance*. FASEB J, 2009. **23**(9): p. 3159-70.
2325. Sanchez, P.E., et al., *Optimal neuroprotection by erythropoietin requires elevated expression of its receptor in neurons*. Proc Natl Acad Sci U S A, 2009. **106**(24): p. 9848-53.

2326. Sato, T., et al., *Comprehensive gene-expression profile in murine oxygen-induced retinopathy*. Br J Ophthalmol, 2009. **93**(1): p. 96-103.
2327. Selvendiran, K., et al., *Hypoxia induces chemoresistance in ovarian cancer cells by activation of signal transducer and activator of transcription 3*. Int J Cancer, 2009. **125**(9): p. 2198-204.
2328. Shafee, N., et al., *PI3K/Akt activity has variable cell-specific effects on expression of HIF target genes, CA9 and VEGF, in human cancer cell lines*. Cancer letters, 2009. **282**(1): p. 109-115.
2329. Sims, J.R., et al., *Sonic hedgehog regulates ischemia/hypoxia-induced neural progenitor proliferation*. Stroke, 2009. **40**(11): p. 3618-26.
2330. Singleton, P.A., et al., *Dynamin 2 and c-Abl are novel regulators of hyperoxia-mediated NADPH oxidase activation and reactive oxygen species production in caveolin-enriched microdomains of the endothelium*. J Biol Chem, 2009. **284**(50): p. 34964-75.
2331. Slusarski, J.D., et al., *High-dose erythropoietin does not exacerbate retinopathy of prematurity in rats*. Pediatric research, 2009. **66**(6): p. 625-630.
2332. Soukhova, G., A. Nozdrachev, and D. Gozal, *Neonatal intermittent hypoxia and hypertension*. Journal of evolutionary biochemistry and physiology, 2009. **45**(2): p. 252-258.
2333. Stasinopoulos, I., D.R. O'Brien, and Z.M. Bhujwalla, *Inflammation, but not hypoxia, mediated HIF-1 α activation depends on COX-2*. Cancer biology & therapy, 2009. **8**(1): p. 31-35.
2334. Stewart, G.D., et al., *NO-sulindac inhibits the hypoxia response of PC-3 prostate cancer cells via the Akt signalling pathway*. Int J Cancer, 2009. **124**(1): p. 223-32.
2335. Sullivan, R. and C.H. Graham, *Hypoxia prevents etoposide-induced DNA damage in cancer cells through a mechanism involving hypoxia-inducible factor 1*. Molecular cancer therapeutics, 2009. **8**(6): p. 1702-1713.
2336. Sunderram, J., et al., *Heme oxygenase-1-dependent central cardiorespiratory adaptations to chronic hypoxia in mice*. Am J Physiol Regul Integr Comp Physiol, 2009. **297**(2): p. R300-12.
2337. Thangarajah, H., et al., *IFATS collection: Adipose stromal cells adopt a proangiogenic phenotype under the influence of hypoxia*. Stem Cells, 2009. **27**(1): p. 266-74.
2338. Thangarajah, H., et al., *The molecular basis for impaired hypoxia-induced VEGF expression in diabetic tissues*. Proc Natl Acad Sci U S A, 2009. **106**(32): p. 13505-10.
2339. van Haaften, T., et al., *Airway delivery of mesenchymal stem cells prevents arrested alveolar growth in neonatal lung injury in rats*. Am J Respir Crit Care Med, 2009. **180**(11): p. 1131-42.
2340. Vitali, S.H., et al., *Divergent cardiopulmonary actions of heme oxygenase enzymatic products in chronic hypoxia*. PLoS One, 2009. **4**(6): p. e5978.
2341. Vlaski, M., et al., *Low oxygen concentration as a general physiologic regulator of erythropoiesis beyond the EPO-related downstream tuning and a tool for the optimization of red blood cell production ex vivo*. Experimental hematology, 2009. **37**(5): p. 573-584.

2342. Weidemann, A., et al., *The glial cell response is an essential component of hypoxia-induced erythropoiesis in mice*. The Journal of clinical investigation, 2009. **119**(11): p. 3373.
2343. Wendler, C.C., et al., *Embryonic caffeine exposure induces adverse effects in adulthood*. FASEB J, 2009. **23**(4): p. 1272-8.
2344. Wicks, S., et al., *Hypoxia rescues early mortality conferred by superoxide dismutase deficiency*. Free Radic Biol Med, 2009. **46**(2): p. 176-81.
2345. Wikenheiser, J., et al., *Altered hypoxia-inducible factor-1 alpha expression levels correlate with coronary vessel anomalies*. Dev Dyn, 2009. **238**(10): p. 2688-700.
2346. Wisel, S., et al., *Pharmacological preconditioning of mesenchymal stem cells with trimetazidine (1-[2, 3, 4-trimethoxybenzyl] piperazine) protects hypoxic cells against oxidative stress and enhances recovery of myocardial function in infarcted heart through Bcl-2 expression*. Journal of Pharmacology and Experimental Therapeutics, 2009. **329**(2): p. 543-550.
2347. Woodley, D.T., et al., *Participation of the lipoprotein receptor LRP1 in hypoxia-HSP90 α autocrine signaling to promote keratinocyte migration*. Journal of cell science, 2009. **122**(10): p. 1495-1498.
2348. Xu, J., et al., *Beta-cell death and proliferation after intermittent hypoxia: role of oxidative stress*. Free Radic Biol Med, 2009. **46**(6): p. 783-90.
2349. Xu, X., P. Johnson, and S.C. Mueller, *Breast cancer cell movement: imaging invadopodia by TIRF and IRM microscopy*. Methods Mol Biol, 2009. **571**: p. 209-25.
2350. Yamaji-Kegan, K., et al., *IL-4 is proangiogenic in the lung under hypoxic conditions*. The Journal of Immunology, 2009. **182**(9): p. 5469-5476.
2351. Yan, B., et al., *Chronic intermittent hypoxia impairs heart rate responses to AMPA and NMDA and induces loss of glutamate receptor neurons in nucleus ambiguus of F344 rats*. American Journal of Physiology-Regulatory, Integrative and Comparative Physiology, 2009. **296**(2): p. R299-R308.
2352. Yang, C., et al., *The role of lysophosphatidic acid receptor (LPA1) in the oxygen-induced retinal ganglion cell degeneration*. Invest Ophthalmol Vis Sci, 2009. **50**(3): p. 1290-8.
2353. You, J.-J., et al., *Cysteine-rich 61, a member of the CCN family, as a factor involved in the pathogenesis of proliferative diabetic retinopathy*. Investigative ophthalmology & visual science, 2009. **50**(7): p. 3447-3455.
2354. Zhang, F.-X., et al., *N-acetylcysteine blocked hypoxia-reoxygenation induced apoptosis through ROS-p38 MAPK signaling pathway in neonatal rat cardiomyocytes*. J Geriatr Cardiol, 2009. **6**: p. 168-172.
2355. Zhang, R., et al., *Near infrared light protects cardiomyocytes from hypoxia and reoxygenation injury by a nitric oxide dependent mechanism*. J Mol Cell Cardiol, 2009. **46**(1): p. 4-14.
2356. Zhang, Z., et al., *Genomic approaches in the identification of hypoxia biomarkers in model fish species*. J Exp Mar Bio Ecol, 2009. **381**(Suppl 1): p. S180-S187.

2357. Zhou, W., et al., *Modulation of pulmonary vascular smooth muscle cell phenotype in hypoxia: role of cGMP-dependent protein kinase and myocardin*. Am J Physiol Lung Cell Mol Physiol, 2009. **296**(5): p. L780-9.
2358. Zieger, M.A. and M.P. Gupta, *Hypothermic preconditioning of endothelial cells attenuates cold-induced injury by a ferritin-dependent process*. Free Radic Biol Med, 2009. **46**(5): p. 680-91.
2359. Zoccal, D.B., et al., *Sympathetic-mediated hypertension of awake juvenile rats submitted to chronic intermittent hypoxia is not linked to baroreflex dysfunction*. Experimental physiology, 2009. **94**(9): p. 972-983.
2360. Akoyev, V., L. Grauer, and D. Takemoto, *Hypoxia Regulates the Activity of Pkc in the Lens*. Investigative Ophthalmology & Visual Science, 2008. **49**(13): p. 1897-1897.
2361. Akula, J.D., et al., *The neurovascular relation in oxygen-induced retinopathy*. Mol Vis, 2008. **14**: p. 2499-508.
2362. An, J., et al., *Inactivation of the CYLD deubiquitinase by HPV E6 mediates hypoxia-induced NF- κ B activation*. Cancer cell, 2008. **14**(5): p. 394-407.
2363. Arnalich-Montiel, F., et al., *Adipose-derived stem cells are a source for cell therapy of the corneal stroma*. Stem Cells, 2008. **26**(2): p. 570-9.
2364. Berkowitz, B.A., et al., *Ionic dysregulatory phenotyping of pathologic retinal thinning with manganese-enhanced MRI*. Invest Ophthalmol Vis Sci, 2008. **49**(7): p. 3178-84.
2365. Braunstein, S., S.C. Formenti, and R.J. Schneider, *Acquisition of stable inducible up-regulation of nuclear factor- κ B by tumor necrosis factor exposure confers increased radiation resistance without increased transformation in breast cancer cells*. Molecular Cancer Research, 2008. **6**(1): p. 78-88.
2366. Burckhardt, I.C., et al., *Green tea catechin polyphenols attenuate behavioral and oxidative responses to intermittent hypoxia*. Am J Respir Crit Care Med, 2008. **177**(10): p. 1135-41.
2367. Chen, J., et al., *Carbonic anhydrase II and alveolar fluid reabsorption during hypercapnia*. Am J Respir Cell Mol Biol, 2008. **38**(1): p. 32-7.
2368. Chen, L.M., G.G. Haddad, and W.F. Boron, *Effects of chronic continuous hypoxia on the expression of SLC4A8 (NDCBE) in neonatal versus adult mouse brain*. Brain Res, 2008. **1238**: p. 85-92.
2369. Chen, S.C., et al., *Acute hypoxia enhances proteins' S-nitrosylation in endothelial cells*. Biochem Biophys Res Commun, 2008. **377**(4): p. 1274-8.
2370. Chen, S.-C., et al., *Acute hypoxia to endothelial cells induces activating transcription factor 3 (ATF3) expression that is mediated via nitric oxide*. Atherosclerosis, 2008. **201**(2): p. 281-288.
2371. Chen, S.-C., et al., *Hypoxia induces discoidin domain receptor-2 expression via the p38 pathway in vascular smooth muscle cells to increase their migration*. Biochemical and biophysical research communications, 2008. **374**(4): p. 662-667.
2372. Chikaraishi, Y., et al., *Rifampicin inhibits the retinal neovascularization in vitro and in vivo*. Exp Eye Res, 2008. **86**(1): p. 131-7.

2373. Coleman, R.J., et al., *Effects of brief, clustered versus dispersed hypoxic episodes on systemic and ocular growth factors in a rat model of oxygen-induced retinopathy*. *Pediatr Res*, 2008. **64**(1): p. 50-5.
2374. Colleoni, S., et al., *Neuroprotective effects of the novel glutamate transporter inhibitor (–)-3-hydroxy-4, 5, 6, 6a-tetrahydro-3aH-pyrrolo [3, 4-d]-isoxazole-4-carboxylic acid, which preferentially inhibits reverse transport (glutamate release) compared with glutamate reuptake*. *Journal of Pharmacology and Experimental Therapeutics*, 2008. **326**(2): p. 646-656.
2375. Dessouroux, A., Y. Akwa, and E. Baulieu, *DHEA decreases HIF-1 α accumulation under hypoxia in human pulmonary artery cells: Potential role in the treatment of pulmonary arterial hypertension*. *The Journal of steroid biochemistry and molecular biology*, 2008. **109**(1): p. 81-89.
2376. Dimaio, T.A., et al., *Attenuation of retinal vascular development and neovascularization in PECAM-1-deficient mice*. *Dev Biol*, 2008. **315**(1): p. 72-88.
2377. Dyugovskaya, L., et al., *Delayed neutrophil apoptosis in patients with sleep apnea*. *Am J Respir Crit Care Med*, 2008. **177**(5): p. 544-54.
2378. Escudero, C., P. Casanello, and L. Sobrevia, *Human equilibrative nucleoside transporters 1 and 2 may be differentially modulated by A 2B adenosine receptors in placenta microvascular endothelial cells from pre-eclampsia*. *Placenta*, 2008. **29**(9): p. 816-825.
2379. Farahani, R., et al., *Differential effects of chronic intermittent and chronic constant hypoxia on postnatal growth and development*. *Pediatr Pulmonol*, 2008. **43**(1): p. 20-8.
2380. Favaro, E., et al., *Hypoxia inducible factor-1 α inactivation unveils a link between tumor cell metabolism and hypoxia-induced cell death*. *The American journal of pathology*, 2008. **173**(4): p. 1186-1201.
2381. Fink, T., et al., *Instability of standard PCR reference genes in adipose-derived stem cells during propagation, differentiation and hypoxic exposure*. *BMC Mol Biol*, 2008. **9**(1): p. 98.
2382. Fomicheva, E.V., et al., *Double Oxygen-sensing Vector System for Robust Hypoxia/Ischemia-regulated Gene Induction in Cardiac Muscle In Vitro and In Vivo*. *Molecular Therapy*, 2008. **16**(9): p. 1594-1601.
2383. Fontaine, R.H., et al., *Vulnerability of white matter towards antenatal hypoxia is linked to a species-dependent regulation of glutamate receptor subunits*. *Proceedings of the National Academy of Sciences*, 2008. **105**(43): p. 16779-16784.
2384. Frank, D.B., et al., *Increased susceptibility to hypoxic pulmonary hypertension in Bmpr2 mutant mice is associated with endothelial dysfunction in the pulmonary vasculature*. *American Journal of Physiology-Lung Cellular and Molecular Physiology*, 2008. **294**(1): p. L98-L109.
2385. Fredenburgh, L.E., et al., *Absence of cyclooxygenase-2 exacerbates hypoxia-induced pulmonary hypertension and enhances contractility of vascular smooth muscle cells*. *Circulation*, 2008. **117**(16): p. 2114-22.
2386. Gamez, A., et al., *Beneficial effects of fructose 1,6-biphosphate on hypothermia-induced reactive oxygen species injury in rats*. *Eur J Pharmacol*, 2008. **590**(1-3): p. 115-9.

2387. Geisen, P., et al., *Neutralizing antibody to VEGF reduces intravitreal neovascularization and may not interfere with ongoing intraretinal vascularization in a rat model of retinopathy of prematurity*. Molecular vision, 2008. **14**: p. 345.
2388. Gerber, S.A. and J.S. Pober, *IFN- α induces transcription of hypoxia-inducible factor-1 α to inhibit proliferation of human endothelial cells*. The Journal of Immunology, 2008. **181**(2): p. 1052-1062.
2389. Gerstner, B., et al., *Hyperoxia causes maturation-dependent cell death in the developing white matter*. J Neurosci, 2008. **28**(5): p. 1236-45.
2390. Ghatpande, S.K., et al., *Hypoxia induces cardiac malformations via A1 adenosine receptor activation in chicken embryos*. Birth Defects Res A Clin Mol Teratol, 2008. **82**(3): p. 121-30.
2391. Gleixner, E., et al., *Oxygen-induced changes in hemoglobin expression in Drosophila*. FEBS J, 2008. **275**(20): p. 5108-16.
2392. Glunde, K., et al., *Hypoxia regulates choline kinase expression through hypoxia-inducible factor-1 α signaling in a human prostate cancer model*. Cancer research, 2008. **68**(1): p. 172-180.
2393. Hartnett, M.E., et al., *Neutralizing VEGF decreases tortuosity and alters endothelial cell division orientation in arterioles and veins in a rat model of ROP: relevance to plus disease*. Invest Ophthalmol Vis Sci, 2008. **49**(7): p. 3107-14.
2394. Hu, X., et al., *Transplantation of hypoxia-preconditioned mesenchymal stem cells improves infarcted heart function via enhanced survival of implanted cells and angiogenesis*. J Thorac Cardiovasc Surg, 2008. **135**(4): p. 799-808.
2395. Huang, Q., et al., *PEDF-deficient mice exhibit an enhanced rate of retinal vascular expansion and are more sensitive to hyperoxia-mediated vessel obliteration*. Exp Eye Res, 2008. **87**(3): p. 226-41.
2396. Hung, H.F., et al., *The molecular regulation of resistin expression in cultured vascular smooth muscle cells under hypoxia*. J Hypertens, 2008. **26**(12): p. 2349-60.
2397. Jackson, R.M. and R. Garcia-Rojas, *Kinase activity, heat shock protein 27 phosphorylation, and lung epithelial cell glutathione*. Exp Lung Res, 2008. **34**(5): p. 245-62.
2398. Jankov, R.P., et al., *Contribution of xanthine oxidase-derived superoxide to chronic hypoxic pulmonary hypertension in neonatal rats*. Am J Physiol Lung Cell Mol Physiol, 2008. **294**(2): p. L233-45.
2399. Jones, C.A., et al., *Robo4 stabilizes the vascular network by inhibiting pathologic angiogenesis and endothelial hyperpermeability*. Nat Med, 2008. **14**(4): p. 448-53.
2400. Julien, C., A. Bairam, and V. Joseph, *Chronic intermittent hypoxia reduces ventilatory long-term facilitation and enhances apnea frequency in newborn rats*. Am J Physiol Regul Integr Comp Physiol, 2008. **294**(4): p. R1356-66.
2401. Khanna, A.J., et al., *Biomechanical evaluation of kyphoplasty with calcium phosphate cement in a 2-functional spinal unit vertebral compression fracture model*. Spine J, 2008. **8**(5): p. 770-7.
2402. Kim, E.J., A.P. Raval, and M.A. Perez-Pinzon, *Preconditioning mediated by sublethal oxygen-glucose deprivation-induced cyclooxygenase-2 expression via*

- the signal transducers and activators of transcription 3 phosphorylation*. Journal of Cerebral Blood Flow & Metabolism, 2008. **28**(7): p. 1329-1340.
2403. Kornecki, A., et al., *Vascular remodeling protects against ventilator-induced lung injury in the in vivo rat*. Anesthesiology, 2008. **108**(6): p. 1047-54.
 2404. Lai, A.Y. and K.G. Todd, *Differential regulation of trophic and proinflammatory microglial effectors is dependent on severity of neuronal injury*. Glia, 2008. **56**(3): p. 259-270.
 2405. Lee, S.-J., R. Feldman, and P.H. O'Farrell, *An RNA interference screen identifies a novel regulator of target of rapamycin that mediates hypoxia suppression of translation in Drosophila S2 cells*. Molecular biology of the cell, 2008. **19**(10): p. 4051-4061.
 2406. Leonard, M.O., et al., *Hypoxia selectively activates the CREB family of transcription factors in the in vivo lung*. Am J Respir Crit Care Med, 2008. **178**(9): p. 977-83.
 2407. Lin, J.S., et al., *Hypoxic preconditioning protects rat hearts against ischaemia-reperfusion injury: role of erythropoietin on progenitor cell mobilization*. The Journal of physiology, 2008. **586**(23): p. 5757-5769.
 2408. Lin, M., et al., *Structural remodeling of nucleus ambiguus projections to cardiac ganglia following chronic intermittent hypoxia in C57BL/6J mice*. J Comp Neurol, 2008. **509**(1): p. 103-17.
 2409. Martiniuk, D., et al., *Reducing the Bioactivity of VEGF With a Neutralizing Antibody Significantly Reduces Arteriole Tortuosity in a Rat Model of Oxygen-Induced Retinopathy*. Investigative Ophthalmology & Visual Science, 2008. **49**(13): p. 1409-1409.
 2410. McNamara, P.J., et al., *Acute vasodilator effects of Rho-kinase inhibitors in neonatal rats with pulmonary hypertension unresponsive to nitric oxide*. Am J Physiol Lung Cell Mol Physiol, 2008. **294**(2): p. L205-13.
 2411. Medina, R.J., et al., *The pleiotropic effects of simvastatin on retinal microvascular endothelium has important implications for ischaemic retinopathies*. PloS one, 2008. **3**(7): p. e2584-e2584.
 2412. Moreno-Vinasco, L., et al., *Genomic assessment of a multikinase inhibitor, sorafenib, in a rodent model of pulmonary hypertension*. Physiol Genomics, 2008. **33**(2): p. 278-91.
 2413. Mwaikambo, B., et al., *Emerging roles for the CD36 scavenger receptor as a potential therapeutic target for corneal neovascularization*. Endocrine, Metabolic & Immune Disorders-Drug Targets (Formerly Current Drug Targets-Immune, Endocrine & Metabolic Disorders), 2008. **8**(4): p. 255-272.
 2414. Natoli, R., et al., *Expression and role of the early-response gene Oxr1 in the hyperoxia-challenged mouse retina*. Invest Ophthalmol Vis Sci, 2008. **49**(10): p. 4561-7.
 2415. Natoli, R., et al., *Gene regulation induced in the C57BL/6J mouse retina by hyperoxia: a temporal microarray study*. Mol Vis, 2008. **14**: p. 1983-94.
 2416. Nonaka, Y., et al., *Combination effects of normobaric hyperoxia and edaravone on focal cerebral ischemia-induced neuronal damage in mice*. Neurosci Lett, 2008. **441**(2): p. 224-8.

2417. O'Croinin, D.F., et al., *Sustained hypercapnic acidosis during pulmonary infection increases bacterial load and worsens lung injury**. Critical care medicine, 2008. **36**(7): p. 2128-2135.
2418. Patterson, T.E., et al., *Cellular strategies for enhancement of fracture repair*. J Bone Joint Surg Am, 2008. **90 Suppl 1**: p. 111-9.
2419. Perry, J.C., et al., *Distinct behavioral and neurochemical alterations induced by intermittent hypoxia or paradoxical sleep deprivation in rats*. Prog Neuropsychopharmacol Biol Psychiatry, 2008. **32**(1): p. 87-94.
2420. Perry, J.C., et al., *Intermittent hypoxia and sleep restriction: motor, cognitive and neurochemical alterations in rats*. Behav Brain Res, 2008. **189**(2): p. 373-80.
2421. Pocock, R. and O. Hobert, *Oxygen levels affect axon guidance and neuronal migration in Caenorhabditis elegans*. Nat Neurosci, 2008. **11**(8): p. 894-900.
2422. Rius, J., et al., *NF-kappaB links innate immunity to the hypoxic response through transcriptional regulation of HIF-1alpha*. Nature, 2008. **453**(7196): p. 807-11.
2423. Saito, Y., et al., *Activated NAD(P)H oxidase from supplemental oxygen induces neovascularization independent of VEGF in retinopathy of prematurity model*. Invest Ophthalmol Vis Sci, 2008. **49**(4): p. 1591-8.
2424. Sartippour, M.R., et al., *Ellagitannin-rich pomegranate extract inhibits angiogenesis in prostate cancer in vitro and in vivo*. Int J Oncol, 2008. **32**(2): p. 475-80.
2425. Sears, J.E., et al., *Prolyl hydroxylase inhibition during hyperoxia prevents oxygen-induced retinopathy*. Proc Natl Acad Sci U S A, 2008. **105**(50): p. 19898-903.
2426. Sfakianaki, A.K., et al., *Relationships of maternal serum levels of vascular endothelial growth factor and tensile strength properties of the cervix in a rat model of chronic hypoxia*. Am J Obstet Gynecol, 2008. **198**(2): p. 223 e1-7.
2427. Shi, H., et al., *Glial cell line-derived neurotrophic growth factor increases motility and survival of cultured mesenchymal stem cells and ameliorates acute kidney injury*. Am J Physiol Renal Physiol, 2008. **294**(1): p. F229-35.
2428. Shui, Y.B. and D.C. Beebe, *Age-dependent control of lens growth by hypoxia*. Invest Ophthalmol Vis Sci, 2008. **49**(3): p. 1023-9.
2429. Shui, Y.B., et al., *HIF-1: an age-dependent regulator of lens cell proliferation*. Invest Ophthalmol Vis Sci, 2008. **49**(11): p. 4961-70.
2430. Siemens, D.R., et al., *Hypoxia increases tumor cell shedding of MHC class I chain-related molecule: role of nitric oxide*. Cancer Res, 2008. **68**(12): p. 4746-53.
2431. Soukhova-O'Hare, G.K., et al., *Erectile dysfunction in a murine model of sleep apnea*. Am J Respir Crit Care Med, 2008. **178**(6): p. 644-50.
2432. Srivaraatharajah, K., et al., *Chronic hypoxic hypercapnia modifies in vivo and in vitro ventilatory chemoreflexes in the cane toad*. Respir Physiol Neurobiol, 2008. **160**(3): p. 249-58.
2433. Stewart, G.D., et al., *Variation in dermcidin expression in a range of primary human tumours and in hypoxic/oxidatively stressed human cell lines*. Br J Cancer, 2008. **99**(1): p. 126-32.

2434. Sullivan, R., et al., *Hypoxia-induced resistance to anticancer drugs is associated with decreased senescence and requires hypoxia-inducible factor-1 activity*. Molecular cancer therapeutics, 2008. **7**(7): p. 1961-1973.
2435. Tan, M., et al., *SAG/ROC2/RBX2 is a HIF-1 target gene that promotes HIF-1 α ubiquitination and degradation*. Oncogene, 2008. **27**(10): p. 1404-1411.
2436. Theus, M.H., et al., *In vitro hypoxic preconditioning of embryonic stem cells as a strategy of promoting cell survival and functional benefits after transplantation into the ischemic rat brain*. Experimental neurology, 2008. **210**(2): p. 656-670.
2437. Tong, Z., et al., *Promoter polymorphism of the erythropoietin gene in severe diabetic eye and kidney complications*. Proc Natl Acad Sci U S A, 2008. **105**(19): p. 6998-7003.
2438. Tsuzuki, K., Y. Tochihara, and T. Ohnaka, *Comparison of thermal responses between young children (1- to 3-year-old) and mothers during cold exposure*. Eur J Appl Physiol, 2008. **103**(6): p. 697-705.
2439. Via, L.E., et al., *Tuberculous granulomas are hypoxic in guinea pigs, rabbits, and nonhuman primates*. Infect Immun, 2008. **76**(6): p. 2333-40.
2440. Villarruel, S.M., et al., *The effect of oxygen tension on the in vitro assay of human osteoblastic connective tissue progenitor cells*. J Orthop Res, 2008. **26**(10): p. 1390-7.
2441. Weidman, D., et al., *Dissecting apoptosis and intrinsic death pathways in the heart*. Methods Enzymol, 2008. **446**: p. 277-85.
2442. Weller, M.L., et al., *Selective Over Expression Of EAAT2 In Astrocytes Enhances Neuroprotection From Moderate But Not Severe Hypoxia-Ischemia*. Neuroscience, 2008. **155**(4): p. 1204.
2443. Willger, S.D., et al., *A sterol-regulatory element binding protein is required for cell polarity, hypoxia adaptation, azole drug resistance, and virulence in Aspergillus fumigatus*. PLoS Pathog, 2008. **4**(11): p. e1000200.
2444. Yan, B., et al., *Attenuation of heart rate control and neural degeneration in nucleus ambiguus following chronic intermittent hypoxia in young adult Fischer 344 rats*. Neuroscience, 2008. **153**(3): p. 709-20.
2445. Ye, L., et al., *High oxygen environment during pregnancy rescues sickle cell anemia mice from prenatal death*. Blood Cells Mol Dis, 2008. **41**(1): p. 67-72.
2446. Yeh, W.L., C.J. Lin, and W.M. Fu, *Enhancement of glucose transporter expression of brain endothelial cells by vascular endothelial growth factor derived from glioma exposed to hypoxia*. Mol Pharmacol, 2008. **73**(1): p. 170-7.
2447. Zyzdorzcyk, C., et al., *Neonatal oxygen exposure in rats leads to cardiovascular and renal alterations in adulthood*. Hypertension, 2008. **52**(5): p. 889-95.
2448. Zhu, Y., et al., *Eif-2a protects brainstem motoneurons in a murine model of sleep apnea*. J Neurosci, 2008. **28**(9): p. 2168-78.
2449. Zoccal, D.B., et al., *Increased sympathetic outflow in juvenile rats submitted to chronic intermittent hypoxia correlates with enhanced expiratory activity*. J Physiol, 2008. **586**(13): p. 3253-65.
2450. Saint-Geniez, M., et al., *Endogenous VEGF is required for visual function: evidence for a survival role on Müller cells and photoreceptors*. PloS one, 2008. **3**(11): p. e3554.

2451. Akula, J.D., et al., *Rod photoreceptor function predicts blood vessel abnormality in retinopathy of prematurity*. Invest Ophthalmol Vis Sci, 2007. **48**(9): p. 4351-9.
2452. Allegrucci, C., et al., *Restriction landmark genome scanning identifies culture-induced DNA methylation instability in the human embryonic stem cell epigenome*. Hum Mol Genet, 2007. **16**(10): p. 1253-68.
2453. Alqawi, O., et al., *Chronic hypoxia promotes an aggressive phenotype in rat prostate cancer cells*. Free Radic Res, 2007. **41**(7): p. 788-97.
2454. Au, A., et al., *Formation of osteogenic colonies on well-defined adhesion peptides by freshly isolated human marrow cells*. Biomaterials, 2007. **28**(10): p. 1847-61.
2455. Balasubramaniam, V., et al., *Hyperoxia reduces bone marrow, circulating, and lung endothelial progenitor cells in the developing lung: implications for the pathogenesis of bronchopulmonary dysplasia*. Am J Physiol Lung Cell Mol Physiol, 2007. **292**(5): p. L1073-84.
2456. Belkacemi, L., et al., *Glyceryl trinitrate inhibits hypoxia/reoxygenation-induced apoptosis in the syncytiotrophoblast of the human placenta: therapeutic implications for preeclampsia*. Am J Pathol, 2007. **170**(3): p. 909-20.
2457. Bell, E.N., et al., *Atrial natriuretic peptide attenuates hypoxia induced chemoresistance in prostate cancer cells*. J Urol, 2007. **177**(2): p. 751-6.
2458. Briva, A., et al., *High CO₂ levels impair alveolar epithelial function independently of pH*. PLoS One, 2007. **2**(11): p. e1238.
2459. Brown, R.C., A.P. Morris, and R.G. O'Neil, *Tight junction protein expression and barrier properties of immortalized mouse brain microvessel endothelial cells*. Brain Res, 2007. **1130**(1): p. 17-30.
2460. Burdon, C., et al., *Oxidative stress and the induction of cyclooxygenase enzymes and apoptosis in the murine placenta*. Placenta, 2007. **28**(7): p. 724-33.
2461. Burgu, B., et al., *Vascular endothelial growth factor mediates hypoxic stimulated embryonic bladder growth in organ culture*. J Urol, 2007. **177**(4): p. 1552-7.
2462. Capla, J.M., et al., *Diabetes Impairs Endothelial Progenitor Cell-Mediated Blood Vessel Formation in Response to Hypoxia*. Plastic and reconstructive surgery, 2007. **119**(1): p. 59-70.
2463. Chen, C.M., et al., *Up-regulation of connective tissue growth factor in hyperoxia-induced lung fibrosis*. Pediatr Res, 2007. **62**(2): p. 128-33.
2464. Chen, H.L., et al., *Oxygen tension regulates survival and fate of mouse central nervous system precursors at multiple levels*. Stem Cells, 2007. **25**(9): p. 2291-2301.
2465. Chen, L.M., et al., *Chronic continuous hypoxia decreases the expression of SLC4A7 (NBCn1) and SLC4A10 (NCBE) in mouse brain*. Am J Physiol Regul Integr Comp Physiol, 2007. **293**(6): p. R2412-20.
2466. Chikaraishi, Y., M. Shimazawa, and H. Hara, *New quantitative analysis, using high-resolution images, of oxygen-induced retinal neovascularization in mice*. Experimental eye research, 2007. **84**(3): p. 529-536.
2467. Coleman, G., et al., *Recombinant $\alpha 2$ (IV) NC1 domain of type IV collagen is an effective regulator of retinal capillary endothelial cell proliferation and inhibits*

- pre-retinal neovascularisation*. Graefe's Archive for Clinical and Experimental Ophthalmology, 2007. **245**(4): p. 581-587.
2468. DiMaio, T., *PECAM-1 Function in the Vascular Endothelium*. Book, 2007.
 2469. Douglas, R.M., et al., *Chronic intermittent but not constant hypoxia decreases NAA/Cr ratios in neonatal mouse hippocampus and thalamus*. American Journal of Physiology-Regulatory, Integrative and Comparative Physiology, 2007. **292**(3): p. R1254-R1259.
 2470. Drogat, B., et al., *Acute L-glutamine deprivation compromises VEGF-a upregulation in A549/8 human carcinoma cells*. J Cell Physiol, 2007. **212**(2): p. 463-72.
 2471. El Hasnaoui-Saadani, R., et al., *Brain stem NO modulates ventilatory acclimatization to hypoxia in mice*. Journal of Applied Physiology, 2007. **103**(5): p. 1506-1512.
 2472. Fang, Y., R. Sullivan, and C.H. Graham, *Confluence-dependent resistance to doxorubicin in human MDA-MB-231 breast carcinoma cells requires hypoxia-inducible factor-1 activity*. Exp Cell Res, 2007. **313**(5): p. 867-77.
 2473. Frederiksen, L.J., et al., *Chemosensitization of cancer in vitro and in vivo by nitric oxide signaling*. Clin Cancer Res, 2007. **13**(7): p. 2199-206.
 2474. Genetta, T., B.H. Lee, and A. Sola, *Low doses of ethanol and hypoxia administered together act synergistically to promote the death of cortical neurons*. J Neurosci Res, 2007. **85**(1): p. 131-8.
 2475. Gheshmy, A., et al., *Afferent input modulates the chronic hypercapnia-induced increase in respiratory-related central pH/CO₂ chemosensitivity in the cane toad (Bufo marinus)*. J Exp Biol, 2007. **210**(Pt 2): p. 227-37.
 2476. Gonzalez-Gronow, M., et al., *Plasminogen structural domains exhibit different functions when associated with cell surface GRP78 or the voltage-dependent anion channel*. Journal of Biological Chemistry, 2007. **282**(45): p. 32811-32820.
 2477. Gu, H., et al., *Selective impairment of central mediation of baroreflex in anesthetized young adult Fischer 344 rats after chronic intermittent hypoxia*. Am J Physiol Heart Circ Physiol, 2007. **293**(5): p. H2809-18.
 2478. Gu, X.Q., et al., *Chronic high-inspired CO₂ decreases excitability of mouse hippocampal neurons*. J Neurophysiol, 2007. **97**(2): p. 1833-8.
 2479. Guo, G. and N.R. Bhat, *p38 α MAP kinase mediates hypoxia-induced motor neuron cell death: a potential target of minocycline's neuroprotective action*. Neurochemical research, 2007. **32**(12): p. 2160-2166.
 2480. Haschemi, A., et al., *Cross-regulation of carbon monoxide and the adenosine A_{2a} receptor in macrophages*. J Immunol, 2007. **178**(9): p. 5921-9.
 2481. Hirakawa, H., et al., *Cathepsin S deficiency confers protection from neonatal hyperoxia-induced lung injury*. Am J Respir Crit Care Med, 2007. **176**(8): p. 778-85.
 2482. Ho-Chen, J.K., J.J. Bustamante, and M.J. Soares, *Prolactin-like protein-f subfamily of placental hormones/cytokines: responsiveness to maternal hypoxia*. Endocrinology, 2007. **148**(2): p. 559-65.
 2483. Hunt, T.K., et al., *Aerobically derived lactate stimulates revascularization and tissue repair via redox mechanisms*. Antioxid Redox Signal, 2007. **9**(8): p. 1115-24.

2484. Hüttemann, M., et al., *Transcription of mammalian cytochrome c oxidase subunit IV-2 is controlled by a novel conserved oxygen responsive element*. FEBS Journal, 2007. **274**(21): p. 5737-5748.
2485. Ju, Z., et al., *Multiple tissue gene expression analyses in Japanese medaka (*Oryzias latipes*) exposed to hypoxia*. Comp Biochem Physiol C Toxicol Pharmacol, 2007. **145**(1): p. 134-44.
2486. Kanaan, A., et al., *Effect of chronic elevated carbon dioxide on the expression of acid-base transporters in the neonatal and adult mouse*. Am J Physiol Regul Integr Comp Physiol, 2007. **293**(3): p. R1294-302.
2487. Kasiganesan, H., V. Sridharan, and G. Wright, *Prolyl hydroxylase inhibitor treatment confers whole-animal hypoxia tolerance*. Acta Physiol (Oxf), 2007. **190**(2): p. 163-9.
2488. Kline, D.D., A. Ramirez-Navarro, and D.L. Kunze, *Adaptive depression in synaptic transmission in the nucleus of the solitary tract after in vivo chronic intermittent hypoxia: evidence for homeostatic plasticity*. J Neurosci, 2007. **27**(17): p. 4663-73.
2489. Kovačević-Filipović, M., et al., *Interleukin-6 (IL-6) and low O₂ concentration (1%) synergize to improve the maintenance of hematopoietic stem cells (pre-CFC)*. Journal of cellular physiology, 2007. **212**(1): p. 68-75.
2490. Kurtoglu, M., et al., *Under normoxia, 2-deoxy-D-glucose elicits cell death in select tumor types not by inhibition of glycolysis but by interfering with N-linked glycosylation*. Molecular cancer therapeutics, 2007. **6**(11): p. 3049-3058.
2491. Lamirand, A., et al., *Hypoxia stabilizes type 2 deiodinase activity in rat astrocytes*. Endocrinology, 2007. **148**(10): p. 4745-53.
2492. Li, W., et al., *Extracellular heat shock protein-90 α : linking hypoxia to skin cell motility and wound healing*. The EMBO journal, 2007. **26**(5): p. 1221-1233.
2493. Li, Y., et al., *Bnip3 mediates the hypoxia-induced inhibition on mammalian target of rapamycin by interacting with Rheb*. J Biol Chem, 2007. **282**(49): p. 35803-13.
2494. Liao, H., et al., *Molecular regulation of the PAI-1 gene by hypoxia: contributions of Egr-1, HIF-1 α , and C/EBP α* . The FASEB Journal, 2007. **21**(3): p. 935-949.
2495. Lin, M., et al., *Chronic intermittent hypoxia impairs baroreflex control of heart rate but enhances heart rate responses to vagal efferent stimulation in anesthetized mice*. Am J Physiol Heart Circ Physiol, 2007. **293**(2): p. H997-1006.
2496. Mata, A., et al., *Connective tissue progenitor cell growth characteristics on textured substrates*. Int J Nanomedicine, 2007. **2**(3): p. 389-406.
2497. McAneney, J. and S.G. Reid, *Chronic hypoxia attenuates central respiratory-related pH/CO₂ chemosensitivity in the cane toad*. Respiratory physiology & neurobiology, 2007. **156**(3): p. 266-275.
2498. Mukerji, S.S., et al., *Activin is a neuronal survival factor that is rapidly increased after transient cerebral ischemia and hypoxia in mice*. Journal of Cerebral Blood Flow & Metabolism, 2007. **27**(6): p. 1161-1172.
2499. Nasiruddin, K.M. and A. Nasim, *Development of agribiotechnology and biosafety regulations used to assess safety of genetically modified crops in Bangladesh*. J AOAC Int, 2007. **90**(5): p. 1508-12.

2500. Nikiforov, M.A., et al., *Tumor cell-selective regulation of NOXA by c-MYC in response to proteasome inhibition*. Proc Natl Acad Sci U S A, 2007. **104**(49): p. 19488-93.
2501. O'Brien, C., et al., *Dietary tyrosine benefits cognitive and psychomotor performance during body cooling*. Physiol Behav, 2007. **90**(2-3): p. 301-7.
2502. Oehlers, L.P., A.N. Perez, and R.B. Walter, *Detection of hypoxia-related proteins in medaka (*Oryzias latipes*) brain tissue by difference gel electrophoresis and de novo sequencing of 4-sulfophenyl isothiocyanate-derivatized peptides by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry*. Comp Biochem Physiol C Toxicol Pharmacol, 2007. **145**(1): p. 120-33.
2503. Park, A.M., et al., *Effects of intermittent hypoxia on the heart*. Antioxid Redox Signal, 2007. **9**(6): p. 723-9.
2504. Park, A.M., et al., *Acute intermittent hypoxia activates myocardial cell survival signaling*. Am J Physiol Heart Circ Physiol, 2007. **292**(2): p. H751-7.
2505. Park, A.M. and Y.J. Suzuki, *Effects of intermittent hypoxia on oxidative stress-induced myocardial damage in mice*. J Appl Physiol (1985), 2007. **102**(5): p. 1806-14.
2506. Perry, J.C., et al., *Consequences of subchronic and chronic exposure to intermittent hypoxia and sleep deprivation on cardiovascular risk factors in rats*. Respir Physiol Neurobiol, 2007. **156**(3): p. 250-8.
2507. Pichiule, P., et al., *Hypoxia-inducible factor-1 mediates neuronal expression of the receptor for advanced glycation end products following hypoxia/ischemia*. J Biol Chem, 2007. **282**(50): p. 36330-40.
2508. Piovan, E., et al., *Differential regulation of hypoxia-induced CXCR4 triggering during B-cell development and lymphomagenesis*. Cancer Res, 2007. **67**(18): p. 8605-14.
2509. Pistollato, F., et al., *Oxygen tension controls the expansion of human CNS precursors and the generation of astrocytes and oligodendrocytes*. Mol Cell Neurosci, 2007. **35**(3): p. 424-35.
2510. Prows, D.R., et al., *A genetic mouse model to investigate hyperoxic acute lung injury survival*. Physiol Genomics, 2007. **30**(3): p. 262-70.
2511. Prows, D.R., et al., *Genetic analysis of hyperoxic acute lung injury survival in reciprocal intercross mice*. Physiol Genomics, 2007. **30**(3): p. 271-81.
2512. Renaud, S.J., S.K. Macdonald-Goodfellow, and C.H. Graham, *Coordinated regulation of human trophoblast invasiveness by macrophages and interleukin 10*. Biol Reprod, 2007. **76**(3): p. 448-54.
2513. Ronkainen, V.P., et al., *Hypoxia inducible factor regulates the cardiac expression and secretion of apelin*. FASEB J, 2007. **21**(8): p. 1821-30.
2514. Row, B.W., et al., *Impaired spatial working memory and altered choline acetyltransferase (CHAT) immunoreactivity and nicotinic receptor binding in rats exposed to intermittent hypoxia during sleep*. Behav Brain Res, 2007. **177**(2): p. 308-14.
2515. Russ, A.L., K.M. Haberstroh, and A.E. Rundell, *Experimental strategies to improve in vitro models of renal ischemia*. Exp Mol Pathol, 2007. **83**(2): p. 143-59.

2516. Rytting, E. and K.L. Audus, *Effects of low oxygen levels on the expression and function of transporter OCTN2 in BeWo cells*. J Pharm Pharmacol, 2007. **59**(8): p. 1095-102.
2517. Saito, Y., et al., *Inhibition of NAD(P)H oxidase reduces apoptosis and avascular retina in an animal model of retinopathy of prematurity*. Mol Vis, 2007. **13**: p. 840-53.
2518. Scafidi, S., et al., *Prostaglandin transporter expression in mouse brain during development and in response to hypoxia*. Neuroscience, 2007. **146**(3): p. 1150-7.
2519. Shan, X., et al., *Manganese superoxide dismutase protects mouse cortical neurons from chronic intermittent hypoxia-mediated oxidative damage*. Neurobiol Dis, 2007. **28**(2): p. 206-15.
2520. Stoeck, A., et al., *L1-CAM in a membrane-bound or soluble form augments protection from apoptosis in ovarian carcinoma cells*. Gynecol Oncol, 2007. **104**(2): p. 461-9.
2521. Sun, H., et al., *YC-1 inhibits HIF-1 expression in prostate cancer cells: contribution of Akt/NF- κ B signaling to HIF-1 α accumulation during hypoxia*. Oncogene, 2007. **26**(27): p. 3941-3951.
2522. Suzuki, Y.J., et al., *Regulation of Bcl-xL expression in lung vascular smooth muscle*. Am J Respir Cell Mol Biol, 2007. **36**(6): p. 678-87.
2523. Turek, M., M. Padilla, and D. Argyle, *Evaluation of the gene for inducible nitric oxide synthase as a radiosensitizer under hypoxic and oxic conditions*. Veterinary and comparative oncology, 2007. **5**(4): p. 250-255.
2524. Wendler, C.C., et al., *A1 adenosine receptors play an essential role in protecting the embryo against hypoxia*. Proc Natl Acad Sci U S A, 2007. **104**(23): p. 9697-702.
2525. Werner, C.G., et al., *Differential role of mGlu1 and mGlu5 receptors in rat hippocampal slice models of ischemic tolerance*. Eur J Neurosci, 2007. **25**(12): p. 3597-604.
2526. Wilkinson-Berka, J.L., et al., *An antisense oligonucleotide targeting the growth hormone receptor inhibits neovascularization in a mouse model of retinopathy*. Mol Vis, 2007. **13**: p. 1529-38.
2527. Wu, W.C., et al., *Geldanamycin, a HSP90 inhibitor, attenuates the hypoxia-induced vascular endothelial growth factor expression in retinal pigment epithelium cells in vitro*. Exp Eye Res, 2007. **85**(5): p. 721-31.
2528. ZHANG, F.x., et al., *Hypoxia reoxygenation induces premature senescence in neonatal SD rat cardiomyocytes1*. Acta pharmacologica sinica, 2007. **28**(1): p. 44-51.
2529. Zhou, W., et al., *Modulation of pulmonary vascular smooth muscle cell phenotype in hypoxia: role of cGMP-dependent protein kinase*. Am J Physiol Lung Cell Mol Physiol, 2007. **292**(6): p. L1459-66.
2530. Zhu, Y., et al., *Selective loss of catecholaminergic wake-active neurons in a murine sleep apnea model*. The Journal of Neuroscience, 2007. **27**(37): p. 10060-10071.
2531. Zoccal, D.B., et al., *Increased sympathetic activity in rats submitted to chronic intermittent hypoxia*. Exp Physiol, 2007. **92**(1): p. 79-85.

2532. Abdalah, R., et al., *Valinomycin-induced apoptosis in Chinese hamster ovary cells*. *Neurosci Lett*, 2006. **405**(1-2): p. 68-73.
2533. Baig, M.S. and V. Joseph, *Activation of NMDA receptors prevents excessive metabolic decrease in hypoxic rat pups*. *Respir Physiol Neurobiol*, 2006. **152**(1): p. 61-71.
2534. Baleeiro, C.E., et al., *GM-CSF and the impaired pulmonary innate immune response following hyperoxic stress*. *Am J Physiol Lung Cell Mol Physiol*, 2006. **291**(6): p. L1246-55.
2535. Braga, V.A., R.N. Soriano, and B.H. Machado, *Sympathoexcitatory response to peripheral chemoreflex activation is enhanced in juvenile rats exposed to chronic intermittent hypoxia*. *Experimental physiology*, 2006. **91**(6): p. 1025-1031.
2536. Checchin, D., et al., *Potential role of microglia in retinal blood vessel formation*. *Invest Ophthalmol Vis Sci*, 2006. **47**(8): p. 3595-602.
2537. Checchin, D., et al., *Hypercapnia prevents neovascularization via nitrative stress*. *Free Radic Biol Med*, 2006. **40**(3): p. 543-53.
2538. Connolly, E., et al., *Hypoxia inhibits protein synthesis through a 4E-BP1 and elongation factor 2 kinase pathway controlled by mTOR and uncoupled in breast cancer cells*. *Molecular and cellular biology*, 2006. **26**(10): p. 3955-3965.
2539. Csiki, I., et al., *Thioredoxin-1 Modulates Transcription of Cyclooxygenase-2 via Hypoxia-Inducible Factor-1 α in Non-Small Cell Lung Cancer*. *Cancer Research*, 2006. **66**(1): p. 143-150.
2540. Dai, T., G. Ramirez-Correa, and W.D. Gao, *Apelin increases contractility in failing cardiac muscle*. *Eur J Pharmacol*, 2006. **553**(1-3): p. 222-8.
2541. Debonneuil, E.H., J. Quillard, and E.E. Baulieu, *Hypoxia and dehydroepiandrosterone in old age: a mouse survival study*. *Respir Res*, 2006. **7**: p. 144.
2542. e Silva, R.L., et al., *Trans-scleral delivery of polyamine analogs for ocular neovascularization*. *Experimental eye research*, 2006. **83**(5): p. 1260-1267.
2543. Follmar, K.E., et al., *Effects of glutamine, glucose, and oxygen concentration on the metabolism and proliferation of rabbit adipose-derived stem cells*. *Tissue Eng*, 2006. **12**(12): p. 3525-33.
2544. Goldbart, A.D., et al., *High fat/refined carbohydrate diet enhances the susceptibility to spatial learning deficits in rats exposed to intermittent hypoxia*. *Brain Res*, 2006. **1090**(1): p. 190-6.
2545. Guo, G. and N.R. Bhat, *Hypoxia/reoxygenation differentially modulates NF- κ B activation and iNOS expression in astrocytes and microglia*. *Antioxidants & redox signaling*, 2006. **8**(5-6): p. 911-918.
2546. Han, M., et al., *Research advances on transgenic plant vaccines*. *Yi Chuan Xue Bao*, 2006. **33**(4): p. 285-93.
2547. Hartnett, M.E., et al., *Triamcinolone reduces neovascularization, capillary density and IGF-1 receptor phosphorylation in a model of oxygen-induced retinopathy*. *Invest Ophthalmol Vis Sci*, 2006. **47**(11): p. 4975-82.
2548. Hermitte, F., et al., *Very low O₂ concentration (0.1%) favors G₀ return of dividing CD34+ cells*. *Stem Cells*, 2006. **24**(1): p. 65-73.

2549. Jankov, R.P., et al., *Endothelin-1 inhibits apoptosis of pulmonary arterial smooth muscle in the neonatal rat*. *Pediatr Res*, 2006. **60**(3): p. 245-51.
2550. Jomha, N.M., G.K. Law, and L.E. McGann, *Storage of porcine articular cartilage at high subzero temperatures*. *Cell Tissue Bank*, 2006. **7**(1): p. 55-60.
2551. Kallio, H., et al., *Hyperbaric articaine for day-case spinal anaesthesia*. *Br J Anaesth*, 2006. **97**(5): p. 704-9.
2552. Kaluz, S., M. Kaluzova, and E.J. Stanbridge, *The role of extracellular signal-regulated protein kinase in transcriptional regulation of the hypoxia marker carbonic anhydrase IX*. *J Cell Biochem*, 2006. **97**(1): p. 207-16.
2553. Kanaan, A., et al., *Effect of chronic continuous or intermittent hypoxia and reoxygenation on cerebral capillary density and myelination*. *Am J Physiol Regul Integr Comp Physiol*, 2006. **290**(4): p. R1105-14.
2554. Kantores, C., et al., *Therapeutic hypercapnia prevents chronic hypoxia-induced pulmonary hypertension in the newborn rat*. *Am J Physiol Lung Cell Mol Physiol*, 2006. **291**(5): p. L912-22.
2555. Khanna, S., et al., *Oxygen-sensitive reset of hypoxia-inducible factor transactivation response: prolyl hydroxylases tune the biological normoxic set point*. *Free Radic Biol Med*, 2006. **40**(12): p. 2147-54.
2556. Kieda, C., et al., *Suppression of hypoxia-induced HIF-1 α and of angiogenesis in endothelial cells by myo-inositol trispyrophosphate-treated erythrocytes*. *Proceedings of the National Academy of Sciences*, 2006. **103**(42): p. 15576-15581.
2557. Konopatskaya, O., et al., *VEGF165b, an endogenous C-terminal splice variant of VEGF, inhibits retinal neovascularization in mice*. *Mol Vis*, 2006. **12**: p. 626-32.
2558. Kramerov, A.A., et al., *Expression of protein kinase CK2 in astroglial cells of normal and neovascularized retina*. *Am J Pathol*, 2006. **168**(5): p. 1722-36.
2559. Krucher, N.A., et al., *Dephosphorylation of Rb (Thr-821) in response to cell stress*. *Exp Cell Res*, 2006. **312**(15): p. 2757-63.
2560. Lai, A.Y. and K.G. Todd, *Hypoxia-activated microglial mediators of neuronal survival are differentially regulated by tetracyclines*. *Glia*, 2006. **53**(8): p. 809-16.
2561. Lampidis, T.J., et al., *Efficacy of 2-halogen substituted D-glucose analogs in blocking glycolysis and killing "hypoxic tumor cells"*. *Cancer chemotherapy and pharmacology*, 2006. **58**(6): p. 725-734.
2562. Latham, J.R., A.K. Wilson, and R.A. Steinbrecher, *The mutational consequences of plant transformation*. *J Biomed Biotechnol*, 2006. **2006**(2): p. 25376.
2563. Li, G., et al., *Effect of carbon dioxide on neonatal mouse lung: a genomic approach*. *J Appl Physiol (1985)*, 2006. **101**(6): p. 1556-64.
2564. Li, R.C., et al., *Hypoxia differentially regulates the expression of neuroglobin and cytoglobin in rat brain*. *Brain Res*, 2006. **1096**(1): p. 173-9.
2565. Liu, K., et al., *The retinal vasculature and function of the neural retina in a rat model of retinopathy of prematurity*. *Invest Ophthalmol Vis Sci*, 2006. **47**(6): p. 2639-47.

2566. Lu, D.-Y., et al., *Hypoxia-induced iNOS expression in microglia is regulated by the PI3-kinase/Akt/mTOR signaling pathway and activation of hypoxia inducible factor-1 α* . Biochemical pharmacology, 2006. **72**(8): p. 992-1000.
2567. Macarlupu, J.L., et al., *Time course of ventilatory acclimatisation to hypoxia in a model of anemic transgenic mice*. Respir Physiol Neurobiol, 2006. **153**(1): p. 14-22.
2568. McAdams, R.M., et al., *Cyclic stretch attenuates effects of hyperoxia on cell proliferation and viability in human alveolar epithelial cells*. Am J Physiol Lung Cell Mol Physiol, 2006. **291**(2): p. L166-74.
2569. McAneney, J., et al., *Chronic hypoxia modulates NMDA-mediated regulation of the hypoxic ventilatory response in an amphibian, Bufo marinus*. Respir Physiol Neurobiol, 2006. **153**(1): p. 23-38.
2570. Mendez, M.P., et al., *Shedding of soluble ICAM-1 into the alveolar space in murine models of acute lung injury*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2006. **290**(5): p. L962-L970.
2571. Muir, C.P., M.A. Adams, and C.H. Graham, *Nitric oxide attenuates resistance to doxorubicin in three-dimensional aggregates of human breast carcinoma cells*. Breast Cancer Res Treat, 2006. **96**(2): p. 169-76.
2572. Plotkin, M.D. and M.S. Goligorsky, *Mesenchymal cells from adult kidney support angiogenesis and differentiate into multiple interstitial cell types including erythropoietin-producing fibroblasts*. American Journal of Physiology-Renal Physiology, 2006. **291**(4): p. F902-F912.
2573. Raman, V., et al., *Characterizing vascular parameters in hypoxic regions: a combined magnetic resonance and optical imaging study of a human prostate cancer model*. Cancer Res, 2006. **66**(20): p. 9929-36.
2574. Reeves, S.R. and D. Gozal, *Changes in ventilatory adaptations associated with long-term intermittent hypoxia across the age spectrum in the rat*. Respir Physiol Neurobiol, 2006. **150**(2-3): p. 135-43.
2575. Reeves, S.R., et al., *Anatomical changes in selected cardio-respiratory brainstem nuclei following early post-natal chronic intermittent hypoxia*. Neurosci Lett, 2006. **402**(3): p. 233-7.
2576. Reeves, S.R., G.S. Mitchell, and D. Gozal, *Early postnatal chronic intermittent hypoxia modifies hypoxic respiratory responses and long-term phrenic facilitation in adult rats*. Am J Physiol Regul Integr Comp Physiol, 2006. **290**(6): p. R1664-71.
2577. Sanfilippo-Cohn, B., et al., *Sex differences in susceptibility to oxidative injury and sleepiness from intermittent hypoxia*. Sleep, 2006. **29**(2): p. 152-9.
2578. Shui, Y.B., et al., *Oxygen distribution in the rabbit eye and oxygen consumption by the lens*. Invest Ophthalmol Vis Sci, 2006. **47**(4): p. 1571-80.
2579. Simon, P.M., et al., *Prodrug of proline analogue reduces hypoxic pulmonary hypertension in rats*. Pulm Pharmacol Ther, 2006. **19**(4): p. 242-50.
2580. Sirinyan, M., et al., *Hyperoxic exposure leads to nitrative stress and ensuing microvascular degeneration and diminished brain mass and function in the immature subject*. Stroke, 2006. **37**(11): p. 2807-15.

2581. Soukhova-O'Hare, G.K., A.M. Roberts, and D. Gozal, *Impaired control of renal sympathetic nerve activity following neonatal intermittent hypoxia in rats*. Neuroscience letters, 2006. **399**(3): p. 181-185.
2582. Soukhova-O'Hare, G.K., et al., *Postnatal intermittent hypoxia alters baroreflex function in adult rats*. Am J Physiol Heart Circ Physiol, 2006. **290**(3): p. H1157-64.
2583. Sun, X., et al., *Hypoxia facilitates Alzheimer's disease pathogenesis by up-regulating BACE1 gene expression*. Proc Natl Acad Sci U S A, 2006. **103**(49): p. 18727-32.
2584. Tang, Y., et al., *Effect of hypoxic preconditioning on brain genomic response before and following ischemia in the adult mouse: identification of potential neuroprotective candidates for stroke*. Neurobiology of disease, 2006. **21**(1): p. 18-28.
2585. Volgin, D.V. and L. Kubin, *Chronic intermittent hypoxia alters hypothalamic transcription of genes involved in metabolic regulation*. Auton Neurosci, 2006. **126-127**: p. 93-9.
2586. Weigand, L., J.T. Sylvester, and L.A. Shimoda, *Mechanisms of endothelin-1-induced contraction in pulmonary arteries from chronically hypoxic rats*. Am J Physiol Lung Cell Mol Physiol, 2006. **290**(2): p. L284-90.
2587. Welch, L.C., et al., *ERK 1/2 is involved in the hypercarbia-induced Na, K-ATPase endocytosis*. The FASEB Journal, 2006. **20**(5): p. A1438.
2588. Wren, S.M., et al., *The effect of L-thyroxine supplementation in a neonatal rat model of ROP*. Curr Eye Res, 2006. **31**(7-8): p. 669-74.
2589. Wu, Z., et al., *Attenuation of retinal vascular development and neovascularization in transgenic mice over-expressing thrombospondin-1 in the lens*. Dev Dyn, 2006. **235**(7): p. 1908-20.
2590. Al-Shabraway, M., et al., *Inhibition of NAD(P)H oxidase activity blocks vascular endothelial growth factor overexpression and neovascularization during ischemic retinopathy*. Am J Pathol, 2005. **167**(2): p. 599-607.
2591. Ambalavanan, N., et al., *Endothelin-A receptor blockade prevents and partially reverses neonatal hypoxic pulmonary vascular remodeling*. Pediatr Res, 2005. **57**(5 Pt 1): p. 631-6.
2592. Beckner, M.E., et al., *Glycolytic glioma cells with active glycogen synthase are sensitive to PTEN and inhibitors of PI3K and gluconeogenesis*. Lab Invest, 2005. **85**(12): p. 1457-70.
2593. Casanello, P., et al., *Equilibrative nucleoside transporter 1 expression is downregulated by hypoxia in human umbilical vein endothelium*. Circulation research, 2005. **97**(1): p. 16-24.
2594. Claxton, S. and M. Fruttiger, *Oxygen modifies artery differentiation and network morphogenesis in the retinal vasculature*. Dev Dyn, 2005. **233**(3): p. 822-8.
2595. Donnelly, D.F., et al., *Perinatal hyperoxia for 14 days increases nerve conduction time and the acute unitary response to hypoxia of rat carotid body chemoreceptors*. J Appl Physiol (1985), 2005. **99**(1): p. 114-9.
2596. Economopoulou, M., et al., *Inhibition of pathologic retinal neovascularization by alpha-defensins*. Blood, 2005. **106**(12): p. 3831-8.

2597. Enjuanes, L., et al., *Coronavirus reverse genetics and development of vectors for gene expression*. Curr Top Microbiol Immunol, 2005. **287**: p. 161-97.
2598. Fan, C., et al., *Gene expression and phenotypic characterization of mouse heart after chronic constant or intermittent hypoxia*. Physiol Genomics, 2005. **22**(3): p. 292-307.
2599. Floyd, B., et al., *Differences between rat strains in models of retinopathy of prematurity*. Mol Vis, 2005. **11**: p. 524-530.
2600. Gardiner, T.A., et al., *Inhibition of tumor necrosis factor-alpha improves physiological angiogenesis and reduces pathological neovascularization in ischemic retinopathy*. Am J Pathol, 2005. **166**(2): p. 637-44.
2601. Gozal, E., et al., *Mild sustained and intermittent hypoxia induce apoptosis in PC-12 cells via different mechanisms*. Am J Physiol Cell Physiol, 2005. **288**(3): p. C535-42.
2602. Gozal, E., et al., *Tyrosine hydroxylase expression and activity in the rat brain: differential regulation after long-term intermittent or sustained hypoxia*. J Appl Physiol (1985), 2005. **99**(2): p. 642-9.
2603. Gutwein, P., et al., *Cleavage of L1 in exosomes and apoptotic membrane vesicles released from ovarian carcinoma cells*. Clin Cancer Res, 2005. **11**(7): p. 2492-501.
2604. Han, J.-Y., et al., *Hypoxia-inducible factor 1 α and antiangiogenic activity of farnesyltransferase inhibitor SCH66336 in human aerodigestive tract cancer*. Journal of the National Cancer Institute, 2005. **97**(17): p. 1272-1286.
2605. Helt, C.E., et al., *Ataxia telangiectasia mutated (ATM) and ATM and Rad3-related protein exhibit selective target specificities in response to different forms of DNA damage*. J Biol Chem, 2005. **280**(2): p. 1186-92.
2606. Jankov, R.P., et al., *A role for platelet-derived growth factor beta-receptor in a newborn rat model of endothelin-mediated pulmonary vascular remodeling*. Am J Physiol Lung Cell Mol Physiol, 2005. **288**(6): p. L1162-70.
2607. Johnson, P.L., et al., *Acute hypercarbic gas exposure reveals functionally distinct subpopulations of serotonergic neurons in rats*. J Psychopharmacol, 2005. **19**(4): p. 327-41.
2608. Johnson, P.L., et al., *Are tuberomammillary histaminergic neurons involved in CO₂-mediated arousal?* Experimental neurology, 2005. **193**(1): p. 228-233.
2609. Kermorvant-Duchemin, E., et al., *Trans-arachidonic acids generated during nitritative stress induce a thrombospondin-1-dependent microvascular degeneration*. Nature medicine, 2005. **11**(12): p. 1339-1345.
2610. Kheirandish, L., et al., *Intermittent hypoxia during development induces long-term alterations in spatial working memory, monoamines, and dendritic branching in rat frontal cortex*. Pediatr Res, 2005. **58**(3): p. 594-9.
2611. Kheirandish, L., et al., *Apolipoprotein E-deficient mice exhibit increased vulnerability to intermittent hypoxia-induced spatial learning deficits*. Sleep, 2005. **28**(11): p. 1412-7.
2612. Klein, J.B., et al., *Akt-mediated valosin-containing protein 97 phosphorylation regulates its association with ubiquitinated proteins*. J Biol Chem, 2005. **280**(36): p. 31870-81.

2613. Kufner, S., et al., *Leukaemia-derived dendritic cells can be generated from blood or bone marrow cells from patients with myelodysplasia: a methodological approach under serum-free culture conditions*. Scand J Immunol, 2005. **62**(1): p. 75-85.
2614. Ladha, F., et al., *Sildenafil improves alveolar growth and pulmonary hypertension in hyperoxia-induced lung injury*. Am J Respir Crit Care Med, 2005. **172**(6): p. 750-6.
2615. Lechanteur, C., et al., *Low daunomycin concentrations protect colorectal cancer cells from hypoxia-induced apoptosis*. Oncogene, 2005. **24**(10): p. 1788-93.
2616. Li, R., et al., *Hypoxic stress in diabetic pregnancy contributes to impaired embryo gene expression and defective development by inducing oxidative stress*. Am J Physiol Endocrinol Metab, 2005. **289**(4): p. E591-9.
2617. Lu, C., et al., *ERK1/2 signaling pathway is involved in 15-hydroxyeicosatetraenoic acid-induced hypoxic pulmonary vasoconstriction*. ACTA PHYSIOLOGICA SINICA-CHINESE EDITION-, 2005. **57**(5): p. 605.
2618. Luwor, R.B., et al., *The anti-epidermal growth factor receptor monoclonal antibody cetuximab/C225 reduces hypoxia-inducible factor-1 alpha, leading to transcriptional inhibition of vascular endothelial growth factor expression*. Oncogene, 2005. **24**(27): p. 4433-41.
2619. Merklinger, S.L., et al., *Increased fibulin-5 and elastin in S100A4/Mts1 mice with pulmonary hypertension*. Circ Res, 2005. **97**(6): p. 596-604.
2620. Nakamura, A., et al., *Adenoviral delivery of the beta2-adrenoceptor gene in sepsis: a subcutaneous approach in rat for kidney protection*. Clin Sci (Lond), 2005. **109**(6): p. 503-11.
2621. Otterbein, L., A. May, and B. Chin, *Carbon monoxide increases macrophage bacterial clearance through Toll-like receptor (TLR) 4 expression*. Cell Mol Biol (Noisy-le-grand), 2005. **51**(5): p. 433-440.
2622. Pae, E.K., P. Chien, and R.M. Harper, *Intermittent hypoxia damages cerebellar cortex and deep nuclei*. Neurosci Lett, 2005. **375**(2): p. 123-8.
2623. Pae, E.K., et al., *Geniohyoid muscle properties and myosin heavy chain composition are altered after short-term intermittent hypoxic exposure*. J Appl Physiol (1985), 2005. **98**(3): p. 889-94.
2624. Rajashekhar, G., et al., *Extracellular matrix-dependent regulation of angiogenin expression in human placenta*. J Cell Biochem, 2005. **96**(1): p. 36-46.
2625. Rajashekhar, G., et al., *Hypoxia up-regulated angiogenin and down-regulated vascular cell adhesion molecule-1 expression and secretion in human placental trophoblasts*. Journal of the Society for Gynecologic Investigation, 2005. **12**(5): p. 310-319.
2626. Ramanathan, L., D. Gozal, and J.M. Siegel, *Antioxidant responses to chronic hypoxia in the rat cerebellum and pons*. J Neurochem, 2005. **93**(1): p. 47-52.
2627. Renaud, S.J., et al., *Activated macrophages inhibit human cytotrophoblast invasiveness in vitro*. Biol Reprod, 2005. **73**(2): p. 237-43.
2628. Rios, E.J., et al., *Chronic hypoxia elevates intracellular pH and activates Na⁺/H⁺ exchange in pulmonary arterial smooth muscle cells*. Am J Physiol Lung Cell Mol Physiol, 2005. **289**(5): p. L867-74.

2629. Roper, J.M., et al., *Loss of Gadd45a does not modify the pulmonary response to oxidative stress*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 2005. **288**(4): p. L663-L671.
2630. Sengupta, S., P.M. Chilton, and T.C. Mitchell, *Adjuvant-induced survival signaling in clonally expanded T cells is associated with transient increases in pAkt levels and sustained uptake of glucose*. Immunobiology, 2005. **210**(9): p. 647-659.
2631. Spindel, E.R., *Cigarette Smoking Research*. Molecular Mechanisms of Tobacco-induced Diseases, 2005: p. 55.
2632. Stitt, A.W., et al., *Impaired retinal angiogenesis in diabetes: role of advanced glycation end products and galectin-3*. Diabetes, 2005. **54**(3): p. 785-94.
2633. Tepper, O.M., et al., *Adult vasculogenesis occurs through in situ recruitment, proliferation, and tubulization of circulating bone marrow-derived cells*. Blood, 2005. **105**(3): p. 1068-1077.
2634. Thébaud, B., et al., *Vascular endothelial growth factor gene therapy increases survival, promotes lung angiogenesis, and prevents alveolar damage in hyperoxia-induced lung injury evidence that angiogenesis participates in alveolarization*. Circulation, 2005. **112**(16): p. 2477-2486.
2635. Thompson, L.P. and Y. Dong, *Chronic Hypoxia Decreases Endothelial Nitric Oxide Synthase Protein Expression in Fetal Guinea Pig Hearts*. Journal of the Society for Gynecologic Investigation, 2005. **12**(6): p. 388-395.
2636. Wang, J., et al., *Chronic hypoxia inhibits Kv channel gene expression in rat distal pulmonary artery*. Am J Physiol Lung Cell Mol Physiol, 2005. **288**(6): p. L1049-58.
2637. Wang, S., C.M. Sorenson, and N. Sheibani, *Attenuation of retinal vascular development and neovascularization during oxygen-induced ischemic retinopathy in Bcl-2-/- mice*. Developmental biology, 2005. **279**(1): p. 205-219.
2638. Wang, Y., et al., *Thrombospondin-1 deficient mice exhibit an altered expression pattern of alternatively spliced PECAM-1 isoforms in retinal vasculature and endothelial cells*. J Cell Physiol, 2005. **204**(1): p. 352-61.
2639. Wellard, J., et al., *Photoreceptors in the rat retina are specifically vulnerable to both hypoxia and hyperoxia*. Visual neuroscience, 2005. **22**(4): p. 501.
2640. West, H., W.D. Richardson, and M. Fruttiger, *Stabilization of the retinal vascular network by reciprocal feedback between blood vessels and astrocytes*. Development, 2005. **132**(8): p. 1855-1862.
2641. Yu, D.Y., S.J. Cringle, and E.N. Su, *Intraretinal oxygen distribution in the monkey retina and the response to systemic hyperoxia*. Invest Ophthalmol Vis Sci, 2005. **46**(12): p. 4728-33.
2642. Zakrzewska, A., et al., *Hypoxia-activated metabolic pathway stimulates phosphorylation of p300 and CBP in oxygen-sensitive cells*. J Neurochem, 2005. **94**(5): p. 1288-96.
2643. Zechel, J.L., et al., *Neuronal migration is transiently delayed by prenatal exposure to intermittent hypoxia*. Birth Defects Research Part B: Developmental and Reproductive Toxicology, 2005. **74**(4): p. 287-299.

2644. Zhan, G., et al., *Inducible nitric oxide synthase in long-term intermittent hypoxia: hypersomnolence and brain injury*. Am J Respir Crit Care Med, 2005. **171**(12): p. 1414-20.
2645. Zhan, G., et al., *NADPH oxidase mediates hypersomnolence and brain oxidative injury in a murine model of sleep apnea*. Am J Respir Crit Care Med, 2005. **172**(7): p. 921-9.
2646. Zhang, X., et al., *Hypoxia-reoxygenation induces premature senescence in FA bone marrow hematopoietic cells*. Blood, 2005. **106**(1): p. 75-85.
2647. Zuo, L. and T.L. Clanton, *Reactive oxygen species formation in the transition to hypoxia in skeletal muscle*. Am J Physiol Cell Physiol, 2005. **289**(1): p. C207-16.
2648. Beauchamp, M.H., et al., *Redox-dependent effects of nitric oxide on microvascular integrity in oxygen-induced retinopathy*. Free Radic Biol Med, 2004. **37**(11): p. 1885-94.
2649. Belik, J., et al., *Chronic O₂ exposure in the newborn rat results in decreased pulmonary arterial nitric oxide release and altered smooth muscle response to isoprostane*. J Appl Physiol (1985), 2004. **96**(2): p. 725-30.
2650. Berkowitz, B.A., H. Luan, and R.L. Roberts, *Effect of methylimidazole-induced hypothyroidism in a model of low retinal neovascular incidence*. Invest Ophthalmol Vis Sci, 2004. **45**(3): p. 919-21.
2651. Bernaudin, M. and F.R. Sharp, *Methods to detect hypoxia-induced ischemic tolerance in the brain*. Methods Enzymol, 2004. **381**: p. 399-416.
2652. Buccellato, L.J., et al., *Reactive oxygen species are required for hyperoxia-induced Bax activation and cell death in alveolar epithelial cells*. J Biol Chem, 2004. **279**(8): p. 6753-60.
2653. Griffin, T.M., T.V. Valdez, and R. Mestril, *Radicicol activates heat shock protein expression and cardioprotection in neonatal rat cardiomyocytes*. Am J Physiol Heart Circ Physiol, 2004. **287**(3): p. H1081-8.
2654. Gu, X.Q., J. Xue, and G.G. Haddad, *Effect of chronically elevated CO₂ on CA1 neuronal excitability*. Am J Physiol Cell Physiol, 2004. **287**(3): p. C691-7.
2655. Helt, C.E., et al., *ATM and ATR exhibit selective target specificities in response to different forms of DNA damage*. Journal of Biological Chemistry, 2004.
2656. Ivanovic, Z., et al., *Simultaneous Maintenance of Human Cord Blood SCID-Repopulating Cells and Expansion of Committed Progenitors at Low O₂ Concentration (3%)*. Stem Cells, 2004. **22**(5): p. 716-724.
2657. Kaluzová, M., et al., *DNA damage is a prerequisite for p53-mediated proteasomal degradation of HIF-1 α in hypoxic cells and downregulation of the hypoxia marker carbonic anhydrase IX*. Molecular and cellular biology, 2004. **24**(13): p. 5757-5766.
2658. Leske, D.A., et al., *The role of VEGF and IGF-1 in a hypercarbic oxygen-induced retinopathy rat model of ROP*. Mol Vis, 2004. **10**(1): p. 43-50.
2659. Lewis, G.P., et al., *The efficacy of delayed oxygen therapy in the treatment of experimental retinal detachment*. Am J Ophthalmol, 2004. **137**(6): p. 1085-95.
2660. Li, J., et al., *Hypoxia-induced nucleophosmin protects cell death through inhibition of p53*. Journal of Biological Chemistry, 2004. **279**(40): p. 41275-41279.

2661. Li, R.C., et al., *Nitric oxide synthase and intermittent hypoxia-induced spatial learning deficits in the rat*. Neurobiol Dis, 2004. **17**(1): p. 44-53.
2662. Maher, J.C., A. Krishan, and T.J. Lampidis, *Greater cell cycle inhibition and cytotoxicity induced by 2-deoxy-D-glucose in tumor cells treated under hypoxic vs aerobic conditions*. Cancer Chemother Pharmacol, 2004. **53**(2): p. 116-22.
2663. McColm, J.R., et al., *Hypoxic oxygen fluctuations produce less severe retinopathy than hyperoxic fluctuations in a rat model of retinopathy of prematurity*. Pediatric research, 2004. **55**(1): p. 107-113.
2664. McColm, J.R., P. Geisen, and M.E. Hartnett, *VEGF isoforms and their expression after a single episode of hypoxia or repeated fluctuations between hyperoxia and hypoxia: relevance to clinical ROP*. Molecular vision, 2004. **10**: p. 512.
2665. Nakayama, K., et al., *Siah2 regulates stability of prolyl-hydroxylases, controls HIF1 α abundance, and modulates physiological responses to hypoxia*. Cell, 2004. **117**(7): p. 941-952.
2666. Papaiahgari, S., et al., *NADPH oxidase and ERK signaling regulates hyperoxia-induced Nrf2-ARE transcriptional response in pulmonary epithelial cells*. J Biol Chem, 2004. **279**(40): p. 42302-12.
2667. Parkinson, F.E. and W. Xiong, *Stimulus- and cell-type-specific release of purines in cultured rat forebrain astrocytes and neurons*. J Neurochem, 2004. **88**(5): p. 1305-12.
2668. Payne, R.S., et al., *Effect of intermittent hypoxia on long-term potentiation in rat hippocampal slices*. Brain Res, 2004. **1029**(2): p. 195-9.
2669. Postovit, L.M., et al., *Nitric oxide-mediated regulation of hypoxia-induced B16F10 melanoma metastasis*. Int J Cancer, 2004. **108**(1): p. 47-53.
2670. Powell, C.S., M.M. Wright, and R.M. Jackson, *p38mapk and MEK1/2 inhibition contribute to cellular oxidant injury after hypoxia*. Am J Physiol Lung Cell Mol Physiol, 2004. **286**(4): p. L826-33.
2671. Reeves, S.R. and D. Gozal, *Platelet-activating factor receptor modulates respiratory adaptation to long-term intermittent hypoxia in mice*. Am J Physiol Regul Integr Comp Physiol, 2004. **287**(2): p. R369-74.
2672. Regina, A., et al., *Down-regulation of caveolin-1 in glioma vasculature: modulation by radiotherapy*. J Neurosci Res, 2004. **75**(2): p. 291-9.
2673. Reifman, J. and P. Gander, *Commentary on the three-process model of alertness and broader modeling issues*. Aviat Space Environ Med, 2004. **75**(3 Suppl): p. A84-8; discussion A89.
2674. Reynolds, P.R., et al., *Midkine is regulated by hypoxia and causes pulmonary vascular remodeling*. Journal of Biological Chemistry, 2004. **279**(35): p. 37124-37132.
2675. Row, B.W., et al., *Platelet-activating factor receptor-deficient mice are protected from experimental sleep apnea-induced learning deficits*. J Neurochem, 2004. **89**(1): p. 189-96.
2676. Roy, S., S. Khanna, and C.K. Sen, *Perceived hyperoxia: oxygen-regulated signal transduction pathways in the heart*. Methods Enzymol, 2004. **381**: p. 133-9.

2677. Shimoda, L.A. and G.L. Semenza, *Functional analysis of the role of hypoxia-inducible factor 1 in the pathogenesis of hypoxic pulmonary hypertension*. Methods Enzymol, 2004. **381**: p. 121-9.
2678. Stitt, A.W., D. Graham, and T.A. Gardiner, *Ocular wounding prevents pre-retinal neovascularization and upregulates PEDF expression in the inner retina*. Mol Vis, 2004. **10**: p. 432-8.
2679. Truong, S.V., et al., *Extracellular Signal-Regulated Kinase Activation Delays Hyperoxia-Induced Epithelial Cell Death in Conditions of Akt Downregulation*. American journal of respiratory cell and molecular biology, 2004. **31**(6): p. 611-618.
2680. Turcotte, S., R.R. Desrosiers, and R. Béliveau, *Hypoxia upregulates von Hippel-Lindau tumor-suppressor protein through RhoA-dependent activity in renal cell carcinoma*. American Journal of Physiology-Renal Physiology, 2004. **286**(2): p. F338-F348.
2681. Veasey, S.C., et al., *Long-term intermittent hypoxia: reduced excitatory hypoglossal nerve output*. Am J Respir Crit Care Med, 2004. **170**(6): p. 665-72.
2682. Walsh, N., et al., *Resistance of photoreceptors in the C57BL/6-c2J, C57BL/6J, and BALB/cJ mouse strains to oxygen stress: evidence of an oxygen phenotype*. Curr Eye Res, 2004. **29**(6): p. 441-7.
2683. Xu, W., et al., *Increased oxidative stress is associated with chronic intermittent hypoxia-mediated brain cortical neuronal cell apoptosis in a mouse model of sleep apnea*. Neuroscience, 2004. **126**(2): p. 313-323.
2684. Zhang, S.X., et al., *Whole-body hypoxic preconditioning protects mice against acute hypoxia by improving lung function*. J Appl Physiol (1985), 2004. **96**(1): p. 392-7.
2685. Zhang, X., et al., *Small interfering RNA targeting heme oxygenase-1 enhances ischemia-reperfusion-induced lung apoptosis*. J Biol Chem, 2004. **279**(11): p. 10677-84.
2686. Annabi, B., et al., *Hypoxia promotes murine bone-marrow-derived stromal cell migration and tube formation*. Stem Cells, 2003. **21**(3): p. 337-47.
2687. Baleeiro, C.E., et al., *Sublethal hyperoxia impairs pulmonary innate immunity*. J Immunol, 2003. **171**(2): p. 955-63.
2688. Beck, J.M., et al., *Pneumocystis pneumonia increases the susceptibility of mice to sublethal hyperoxia*. Infect Immun, 2003. **71**(10): p. 5970-8.
2689. Belik, J., et al., *Chronic O₂ exposure enhances vascular and airway smooth muscle contraction in the newborn but not adult rat*. Journal of Applied Physiology, 2003. **94**(6): p. 2303-2312.
2690. Claxton, S. and M. Fruttiger, *Role of arteries in oxygen induced vaso-obliteration*. Exp Eye Res, 2003. **77**(3): p. 305-11.
2691. Fitzpatrick, T.E., et al., *Inhibition of breast carcinoma and trophoblast cell invasiveness by vascular endothelial growth factor*. Exp Cell Res, 2003. **283**(2): p. 247-55.
2692. Frederiksen, L.J., et al., *Hypoxia induced resistance to doxorubicin in prostate cancer cells is inhibited by low concentrations of glyceryl trinitrate*. The Journal of urology, 2003. **170**(3): p. 1003-1007.

2693. Gehlbach, P., et al., *Periocular injection of an adenoviral vector encoding pigment epithelium-derived factor inhibits choroidal neovascularization*. Gene Ther, 2003. **10**(8): p. 637-46.
2694. Gehlbach, P., et al., *Periocular gene transfer of sFlt-1 suppresses ocular neovascularization and vascular endothelial growth factor-induced breakdown of the blood-retinal barrier*. Hum Gene Ther, 2003. **14**(2): p. 129-41.
2695. Girgis, R.E., et al., *Attenuation of chronic hypoxic pulmonary hypertension by simvastatin*. Am J Physiol Heart Circ Physiol, 2003. **285**(3): p. H938-45.
2696. Goldbart, A., et al., *Intermittent hypoxia induces time-dependent changes in the protein kinase B signaling pathway in the hippocampal CA1 region of the rat*. Neurobiol Dis, 2003. **14**(3): p. 440-6.
2697. Goldbart, A., et al., *Intermittent hypoxic exposure during light phase induces changes in cAMP response element binding protein activity in the rat CA1 hippocampal region: water maze performance correlates*. Neuroscience, 2003. **122**(3): p. 585-90.
2698. Gozal, D., et al., *Temporal aspects of spatial task performance during intermittent hypoxia in the rat: evidence for neurogenesis*. Eur J Neurosci, 2003. **18**(8): p. 2335-42.
2699. Gozal, D., et al., *Increased susceptibility to intermittent hypoxia in aging rats: changes in proteasomal activity, neuronal apoptosis and spatial function*. J Neurochem, 2003. **86**(6): p. 1545-52.
2700. Gu, X., et al., *Hyperoxia induces retinal vascular endothelial cell apoptosis through formation of peroxynitrite*. American Journal of Physiology-Cell Physiology, 2003. **285**(3): p. C546-C554.
2701. Guerra, L., et al., *Erbium:YAG laser and cultured epidermis in the surgical therapy of stable vitiligo*. Arch Dermatol, 2003. **139**(10): p. 1303-10.
2702. Hollenbeck, P.J. and J.R. Bamberg, *Comparing the properties of neuronal culture systems: a shopping guide for the cell biologist*. Methods Cell Biol, 2003. **71**: p. 1-16.
2703. Horiuchi, K., et al., *Potential role for ADAM15 in pathological neovascularization in mice*. Mol Cell Biol, 2003. **23**(16): p. 5614-24.
2704. Hui, A.S., et al., *Regulation of catecholamines by sustained and intermittent hypoxia in neuroendocrine cells and sympathetic neurons*. Hypertension, 2003. **42**(6): p. 1130-6.
2705. Itahana, K., et al., *Control of the replicative life span of human fibroblasts by p16 and the polycomb protein Bmi-1*. Mol Cell Biol, 2003. **23**(1): p. 389-401.
2706. Jankov, R.P., et al., *Macrophages as a major source of oxygen radicals in the hyperoxic newborn rat lung*. Free Radical Biology and Medicine, 2003. **35**(2): p. 200-209.
2707. Kaluz, S., M. Kaluzová, and E.J. Stanbridge, *Expression of the hypoxia marker carbonic anhydrase IX is critically dependent on SP1 activity. Identification of a novel type of hypoxia-responsive enhancer*. Cancer research, 2003. **63**(5): p. 917-922.
2708. Klein, J.B., et al., *Proteomic identification of a novel protein regulated in CA1 and CA3 hippocampal regions during intermittent hypoxia*. Respir Physiol Neurobiol, 2003. **136**(2-3): p. 91-103.

2709. Lerman, O.Z., et al., *Cellular dysfunction in the diabetic fibroblast: impairment in migration, vascular endothelial growth factor production, and response to hypoxia*. Am J Pathol, 2003. **162**(1): p. 303-12.
2710. Nonn, L., M. Berggren, and G. Powis, *Increased Expression of Mitochondrial Peroxiredoxin-3 (Thioredoxin Peroxidase-2) Protects Cancer Cells Against Hypoxia and Drug-Induced Hydrogen Peroxide-Dependent Apoptosis* 11CA52995 and CA772049. Molecular Cancer Research, 2003. **1**(9): p. 682-689.
2711. O'Reilly, M.A., et al., *Activation of the G2 cell cycle checkpoint enhances survival of epithelial cells exposed to hyperoxia*. Am J Physiol Lung Cell Mol Physiol, 2003. **284**(2): p. L368-75.
2712. Paine, R., 3rd, et al., *Transgenic overexpression of granulocyte macrophage-colony stimulating factor in the lung prevents hyperoxic lung injury*. Am J Pathol, 2003. **163**(6): p. 2397-406.
2713. Post, D.E. and E.G. Van Meir, *A novel hypoxia-inducible factor (HIF) activated oncolytic adenovirus for cancer therapy*. Oncogene, 2003. **22**(14): p. 2065-72.
2714. Powell, C.S. and R.M. Jackson, *Mitochondrial complex I, aconitase, and succinate dehydrogenase during hypoxia-reoxygenation: modulation of enzyme activities by MnSOD*. Am J Physiol Lung Cell Mol Physiol, 2003. **285**(1): p. L189-98.
2715. Pozeg, Z.I., et al., *In vivo gene transfer of the O₂-sensitive potassium channel Kv1.5 reduces pulmonary hypertension and restores hypoxic pulmonary vasoconstriction in chronically hypoxic rats*. Circulation, 2003. **107**(15): p. 2037-44.
2716. Reeves, S.R., et al., *Effect of long-term intermittent and sustained hypoxia on hypoxic ventilatory and metabolic responses in the adult rat*. J Appl Physiol (1985), 2003. **95**(5): p. 1767-74.
2717. Row, B.W., et al., *Spatial pre-training attenuates hippocampal impairments in rats exposed to intermittent hypoxia*. Neurosci Lett, 2003. **339**(1): p. 67-71.
2718. Row, B.W., et al., *Intermittent hypoxia is associated with oxidative stress and spatial learning deficits in the rat*. American journal of respiratory and critical care medicine, 2003. **167**(11): p. 1548-1553.
2719. Sarkar, J., et al., *Role of ceruloplasmin in macrophage iron efflux during hypoxia*. J Biol Chem, 2003. **278**(45): p. 44018-24.
2720. Turcotte, S., R.R. Desrosiers, and R. Béliveau, *HIF-1 α mRNA and protein upregulation involves Rho GTPase expression during hypoxia in renal cell carcinoma*. Journal of cell science, 2003. **116**(11): p. 2247-2260.
2721. Van Lieshout, T., et al., *A hypoxic response induced in MatLyLu cells by cobalt chloride results in an enhanced angiogenic response by the chick chorioallantoic membrane*. Int J Oncol, 2003. **23**(3): p. 745-50.
2722. Wang, S., et al., *Thrombospondin-1-deficient mice exhibit increased vascular density during retinal vascular development and are less sensitive to hyperoxia-mediated vessel obliteration*. Developmental dynamics, 2003. **228**(4): p. 630-642.

2723. Welsh, S.J., et al., *The thioredoxin redox inhibitors 1-methylpropyl 2-imidazolyl disulfide and pleurotin inhibit hypoxia-induced factor 1alpha and vascular endothelial growth factor formation*. Mol Cancer Ther, 2003. **2**(3): p. 235-43.
2724. Zhang, X., et al., *Carbon monoxide inhibition of apoptosis during ischemia-reperfusion lung injury is dependent on the p38 mitogen-activated protein kinase pathway and involves caspase 3*. Journal of Biological Chemistry, 2003. **278**(2): p. 1248-1258.
2725. Ambrosini, G., et al., *Transcriptional activation of the human leptin gene in response to hypoxia. Involvement of hypoxia-inducible factor 1*. J Biol Chem, 2002. **277**(37): p. 34601-9.
2726. Bernaudin, M., et al., *Brain genomic response following hypoxia and re-oxygenation in the neonatal rat identification of genes that might contribute to hypoxia-induced ischemic tolerance*. Journal of Biological Chemistry, 2002. **277**(42): p. 39728-39738.
2727. de Vries, I.J., et al., *Phenotypical and functional characterization of clinical grade dendritic cells*. J Immunother, 2002. **25**(5): p. 429-38.
2728. Duh, E.J., et al., *Pigment epithelium-derived factor suppresses ischemia-induced retinal neovascularization and VEGF-induced migration and growth*. Invest Ophthalmol Vis Sci, 2002. **43**(3): p. 821-9.
2729. Gebarowska, D., et al., *Synthetic peptides interacting with the 67-kd laminin receptor can reduce retinal ischemia and inhibit hypoxia-induced retinal neovascularization*. The American journal of pathology, 2002. **160**(1): p. 307-313.
2730. Gozal, D., et al., *Gasping and autoresuscitation in the developing rat: effect of antecedent intermittent hypoxia*. J Appl Physiol (1985), 2002. **92**(3): p. 1141-4.
2731. Gozal, E., et al., *Proteomic analysis of CA1 and CA3 regions of rat hippocampus and differential susceptibility to intermittent hypoxia*. J Neurochem, 2002. **83**(2): p. 331-45.
2732. Horstman, D.J., et al., *Role of nitric oxide in heparin-induced attenuation of hypoxic pulmonary vascular remodeling*. J Appl Physiol (1985), 2002. **92**(5): p. 2012-8.
2733. Kitzmann, A., et al., *Incidence and severity of neovascularization in oxygen- and metabolic acidosis-induced retinopathy depend on rat source*. Curr Eye Res, 2002. **25**(4): p. 215-20.
2734. Lee, H.M., et al., *Hypoxia induces mitochondrial DNA damage and stimulates expression of a DNA repair enzyme, the Escherichia coli MutY DNA glycosylase homolog (MYH), in vivo, in the rat brain*. J Neurochem, 2002. **80**(5): p. 928-37.
2735. Li, C., M.M. Wright, and R.M. Jackson, *Reactive species mediated injury of human lung epithelial cells after hypoxia-reoxygenation*. Exp Lung Res, 2002. **28**(5): p. 373-89.
2736. Liu, H., et al., *Hypoxia increases tumor cell sensitivity to glycolytic inhibitors: a strategy for solid tumor therapy (Model C)*. Biochem Pharmacol, 2002. **64**(12): p. 1745-51.
2737. Michelakis, E.D., et al., *Dichloroacetate, a metabolic modulator, prevents and reverses chronic hypoxic pulmonary hypertension in rats: role of increased*

- expression and activity of voltage-gated potassium channels. Circulation, 2002. 105(2): p. 244-50.*
2738. Mori, K., et al., *Intraocular adenoviral vector-mediated gene transfer in proliferative retinopathies. Invest Ophthalmol Vis Sci, 2002. 43(5): p. 1610-5.*
 2739. Planeta, C.S. and M.T. Marin, *Effect of cocaine on periadolescent rats with or without early maternal separation. Braz J Med Biol Res, 2002. 35(11): p. 1367-71.*
 2740. Postovit, L.M., et al., *Oxygen-mediated regulation of tumor cell invasiveness. Involvement of a nitric oxide signaling pathway. J Biol Chem, 2002. 277(38): p. 35730-7.*
 2741. Row, B.W., et al., *Impaired spatial learning and hyperactivity in developing rats exposed to intermittent hypoxia. Pediatr Res, 2002. 52(3): p. 449-53.*
 2742. Tang, Y., et al., *Genomic responses of the brain to ischemic stroke, intracerebral haemorrhage, kainate seizures, hypoglycemia, and hypoxia. Eur J Neurosci, 2002. 15(12): p. 1937-52.*
 2743. Thongboonkerd, V., et al., *Proteomic analysis reveals alterations in the renal kallikrein pathway during hypoxia-induced hypertension. J Biol Chem, 2002. 277(38): p. 34708-16.*
 2744. Udho, E., et al., *PNUTS (phosphatase nuclear targeting subunit) inhibits retinoblastoma-directed PP1 activity. Biochem Biophys Res Commun, 2002. 297(3): p. 463-7.*
 2745. Welsh, S.J., et al., *The redox protein thioredoxin-1 (Trx-1) increases hypoxia-inducible factor 1alpha protein expression: Trx-1 overexpression results in increased vascular endothelial growth factor production and enhanced tumor angiogenesis. Cancer Res, 2002. 62(17): p. 5089-95.*
 2746. Zhang, X., et al., *Mitogen-activated protein kinases regulate HO-1 gene transcription after ischemia-reperfusion lung injury. Am J Physiol Lung Cell Mol Physiol, 2002. 283(4): p. L815-29.*
 2747. Bowers, F., et al., *Effects of oxygen and bFGF on the vulnerability of photoreceptors to light damage. Invest Ophthalmol Vis Sci, 2001. 42(3): p. 804-15.*
 2748. Davis, D.A., et al., *Hypoxia induces lytic replication of Kaposi sarcoma-associated herpesvirus. Blood, 2001. 97(10): p. 3244-3250.*
 2749. DiGregorio, P.J., J.A. Ubersax, and P.H. O'Farrell, *Hypoxia and nitric oxide induce a rapid, reversible cell cycle arrest of the Drosophila syncytial divisions. J Biol Chem, 2001. 276(3): p. 1930-7.*
 2750. Gozal, D., J.M. Daniel, and G.P. Dohanich, *Behavioral and anatomical correlates of chronic episodic hypoxia during sleep in the rat. J Neurosci, 2001. 21(7): p. 2442-50.*
 2751. Gozal, E., et al., *Developmental differences in cortical and hippocampal vulnerability to intermittent hypoxia in the rat. Neurosci Lett, 2001. 305(3): p. 197-201.*
 2752. Lukiw, W.J., et al., *Presenilin-2 (PS2) expression up-regulation in a model of retinopathy of prematurity and pathoangiogenesis. Neuroreport, 2001. 12(1): p. 53-7.*

2753. Matthews, N.E., et al., *Nitric oxide-mediated regulation of chemosensitivity in cancer cells*. J Natl Cancer Inst, 2001. **93**(24): p. 1879-85.
2754. Mooren, F.C., et al., *Non-invasive single cell pH measurements in the isolated perfused pancreas*. Clin Exp Pharmacol Physiol, 2001. **28**(5-6): p. 463-5.
2755. Post, D.E. and E.G. Van Meir, *Generation of bidirectional hypoxia/HIF-responsive expression vectors to target gene expression to hypoxic cells*. Gene Ther, 2001. **8**(23): p. 1801-7.
2756. Sakai, T., et al., *The ability of hyperoxia to limit the effects of experimental detachment in cone-dominated retina*. Invest Ophthalmol Vis Sci, 2001. **42**(13): p. 3264-73.
2757. Simakajornboon, N., et al., *In vivo PDGF beta receptor activation in the dorsocaudal brainstem of the rat prevents hypoxia-induced apoptosis via activation of Akt and BAD*. Brain Res, 2001. **895**(1-2): p. 111-8.
2758. Alea, O.A., et al., *PDGF-beta receptor expression and ventilatory acclimatization to hypoxia in the rat*. Am J Physiol Regul Integr Comp Physiol, 2000. **279**(5): p. R1625-33.
2759. Cunningham, J.M., S, *The development of a computer controlled system to simulate in rats, the rapid, frequent changes in oxygen experienced by preterm infants developing retinopathy of prematurity*. Journal of medical engineering & technology, 2000. **24**(2): p. 45-52.
2760. Cunningham, S., et al., *A novel model of retinopathy of prematurity simulating preterm oxygen variability in the rat*. Invest Ophthalmol Vis Sci, 2000. **41**(13): p. 4275-80.
2761. Guerra, L., et al., *Treatment of "stable" vitiligo by Timedsurgery and transplantation of cultured epidermal autografts*. Arch Dermatol, 2000. **136**(11): p. 1380-9.
2762. Kunachak, S., et al., *Cryopreserved, irradiated tracheal homograft transplantation for laryngotracheal reconstruction in human beings*. Otolaryngol Head Neck Surg, 2000. **122**(6): p. 911-6.
2763. Premaratne, S., et al., *Scanning electron microscopic changes in the morphology of rabbit pulmonary tissue biopsied following ischemia and reperfusion: a window of opportunity?* J Electron Microsc (Tokyo), 2000. **49**(5): p. 675-9.
2764. Seuntjens, J.P., et al., *Absorbed-dose beam quality conversion factors for cylindrical chambers in high energy photon beams*. Med Phys, 2000. **27**(12): p. 2763-79.
2765. Veldhuizen, R.A., et al., *Pulmonary surfactant is altered during mechanical ventilation of isolated rat lung*. Crit Care Med, 2000. **28**(7): p. 2545-51.
2766. Dibbens, J.A., et al., *Hypoxic regulation of vascular endothelial growth factor mRNA stability requires the cooperation of multiple RNA elements*. Mol Biol Cell, 1999. **10**(4): p. 907-19.
2767. Horstman, D.J., et al., *Inhaled nitric oxide and nifedipine have similar effects on lung cGMP levels in rats*. Anesthesia & Analgesia, 1999. **89**(4): p. 932.
2768. Li, D., N. Zhou, and R.A. Johns, *Soluble guanylate cyclase gene expression and localization in rat lung after exposure to hypoxia*. Am J Physiol, 1999. **277**(4): p. L841-7.

2769. Zhang, Y., et al., *Tissue oxygen levels control astrocyte movement and differentiation in developing retina*. Brain Res Dev Brain Res, 1999. **118**(1-2): p. 135-45.
2770. Ellis, L.M., et al., *Down-regulation of vascular endothelial growth factor in a human colon carcinoma cell line transfected with an antisense expression vector specific for c-src*. J Biol Chem, 1998. **273**(2): p. 1052-7.
2771. Frank, D.U., et al., *Regulation of the endogenous NO pathway by prolonged inhaled NO in rats*. Journal of Applied Physiology, 1998. **85**(3): p. 1070-1078.
2772. Frank, D.U., D.J. Horstman, and G.F. Rich, *The effect of prolonged inhaled nitric oxide on pulmonary vasoconstriction in rats*. Anesth Analg, 1998. **87**(6): p. 1285-90.
2773. Gilissen, L.J., et al., *Biosafety of E. coli beta-glucuronidase (GUS) in plants*. Transgenic Res, 1998. **7**(3): p. 157-63.
2774. Horstman, D.J., D.U. Frank, and G.F. Rich, *Prolonged inhaled NO attenuates hypoxic, but not monocrotaline-induced, pulmonary vascular remodeling in rats*. Anesthesia & Analgesia, 1998. **86**(1): p. 74-81.
2775. Imboden, P. and G.K. Schoolnik, *Construction and characterization of a partial Mycobacterium tuberculosis cDNA library of genes expressed at reduced oxygen tension*. Gene, 1998. **213**(1): p. 107-117.
2776. Iwabuchi, K., M. Tajima, and S. Ioyama, *Heat shock protein expression in hearts hypertrophied by genetic and nongenetic hypertension*. Heart Vessels, 1998. **13**(1): p. 30-9.
2777. Lee, Y.H. and H. Tokura, *Thermophysiological significance and the role of local clothing in ambient 10 degrees C environments*. Appl Human Sci, 1998. **17**(1): p. 19-26.
2778. Palmer, L.A., et al., *Hypoxia induces type II NOS gene expression in pulmonary artery endothelial cells via HIF-1*. Am J Physiol, 1998. **274**(2): p. L212-9.
2779. Srivastava, O.P. and K. Srivastava, *Degradation of gamma D- and gamma s-crystallins in human lenses*. Biochem Biophys Res Commun, 1998. **253**(2): p. 288-94.
2780. Valter, K., et al., *Photoreceptor dystrophy in the RCS rat: roles of oxygen, debris, and bFGF*. Invest Ophthalmol Vis Sci, 1998. **39**(12): p. 2427-42.
2781. Holmes, J.M., et al., *The effect of carbon dioxide on oxygen-induced retinopathy in the neonatal rat*. Curr Eye Res, 1997. **16**(7): p. 725-32.
2782. Maslim, J., et al., *Tissue oxygen during a critical developmental period controls the death and survival of photoreceptors*. Investigative ophthalmology & visual science, 1997. **38**(9): p. 1667-1677.
2783. Matthew, C.B., *Telemetry augments the validity of the rat as a model for heat acclimation*. Ann N Y Acad Sci, 1997. **813**: p. 233-8.
2784. Niesman, M.R., K.A. Johnson, and J.S. Penn, *Therapeutic effect of liposomal superoxide dismutase in an animal model of retinopathy of prematurity*. Neurochem Res, 1997. **22**(5): p. 597-605.
2785. Zhang, Y. and J. Stone, *Role of astrocytes in the control of developing retinal vessels*. Invest Ophthalmol Vis Sci, 1997. **38**(9): p. 1653-66.

2786. Holmes, J.M. and L.A. Duffner, *The effect of postnatal growth retardation on abnormal neovascularization in the oxygen exposed neonatal rat*. Curr Eye Res, 1996. **15**(4): p. 403-9.
2787. Le Cras, T.D., et al., *Chronic hypoxia upregulates endothelial and inducible NO synthase gene and protein expression in rat lung*. American Journal of Physiology-Lung Cellular and Molecular Physiology, 1996. **270**(1): p. L164-L170.
2788. Roos, C.M., et al., *Chronic inhaled nitric oxide: effects on pulmonary vascular endothelial function and pathology in rats*. J Appl Physiol (1985), 1996. **80**(1): p. 252-60.
2789. Uncles, D.R., et al., *Nitric oxide modulation of pulmonary vascular resistance is red blood cell dependent in isolated rat lungs*. Anesthesia & Analgesia, 1996. **83**(6): p. 1212-1217.
2790. Minardi, A.J., Jr., D. Christ, and H.J. Saz, *Effects of calmodulin and protein kinase C antagonists on muscle in the filariid, Acanthocheilonema viteae*. J Parasitol, 1995. **81**(6): p. 989-96.
2791. Pares, S., et al., *Refined structures at 2 and 2.2 Å resolution of two forms of the H-protein, a lipoamide-containing protein of the glycine decarboxylase complex*. Acta Crystallogr D Biol Crystallogr, 1995. **51**(Pt 6): p. 1041-51.
2792. Sachdeva, U. and D.B. Jennings, *Effects of hypercapnia on metabolism, temperature, and ventilation during heat and fever*. J Appl Physiol (1985), 1994. **76**(3): p. 1285-92.
2793. Towfighi, J., et al., *The effect of focal cerebral cooling on perinatal hypoxic-ischemic brain damage*. Acta Neuropathol, 1994. **87**(6): p. 598-604.
2794. Xue, C., et al., *Distribution of NOS in normoxic vs. hypoxic rat lung: upregulation of NOS by chronic hypoxia*. Am J Physiol, 1994. **267**(6 Pt 1): p. L667-78.
2795. Kohman, L.J., et al., *Effect of prolonged postischemic perfusion on neonatal hearts*. J Surg Res, 1993. **55**(5): p. 499-503.
2796. Casciari, J.J., S.V. Sotirchos, and R.M. Sutherland, *Variations in tumor cell growth rates and metabolism with oxygen concentration, glucose concentration, and extracellular pH*. J Cell Physiol, 1992. **151**(2): p. 386-94.
2797. Marti, T., et al., *Consequences of amino acid insertions and/or deletions in transmembrane helix C of bacteriorhodopsin*. Proc Natl Acad Sci U S A, 1992. **89**(4): p. 1219-23.
2798. Duerring, M., et al., *Refined three-dimensional structure of phycoerythrocyanin from the cyanobacterium Mastigocladus laminosus at 2.7 Å*. J Mol Biol, 1990. **211**(3): p. 633-44.
2799. Shatos, M.A., et al., *Oxygen radicals generated during anoxia followed by reoxygenation reduce the synthesis of tissue-type plasminogen activator and plasminogen activator inhibitor-1 in human endothelial cell culture*. J Biol Chem, 1990. **265**(33): p. 20443-8.
2800. Broxmeyer, H.E., S. Cooper, and T. Gabig, *The effects of oxidizing species derived from molecular oxygen on the proliferation in vitro of human granulocyte-macrophage progenitor cells*. Ann N Y Acad Sci, 1989. **554**(1): p. 177-84.

2801. Broxmeyer, H.E., et al., *Human umbilical cord blood as a potential source of transplantable hematopoietic stem/progenitor cells*. Proceedings of the National Academy of Sciences, 1989. **86**(10): p. 3828-3832.
2802. Broxmeyer, H.E., et al., *Suppressive effects in vivo of purified recombinant human H-subunit (acidic) ferritin on murine myelopoiesis*. Blood, 1989. **73**(1): p. 74-9.
2803. Chikkappa, G., et al., *Effect in vivo of multiple injections of purified murine and recombinant human macrophage colony-stimulating factor to mice*. Cancer Res, 1989. **49**(13): p. 3558-61.
2804. Hangoc, G., et al., *Influence of IL-1 alpha and -1 beta on the survival of human bone marrow cells responding to hematopoietic colony-stimulating factors*. J Immunol, 1989. **142**(12): p. 4329-34.
2805. Matthew, C.B., R.W. Hubbard, and R.P. Francesconi, *Atropine, diazepam, and physostigmine: thermoregulatory effects in the heat-stressed rat*. Life Sci, 1989. **44**(25): p. 1921-7.
2806. Broxmeyer, H.E., et al., *Selective and indirect modulation of human multipotential and erythroid hematopoietic progenitor cell proliferation by recombinant human activin and inhibin*. Proc Natl Acad Sci U S A, 1988. **85**(23): p. 9052-6.
2807. Broxmeyer, H.E., et al., *Recombinant human granulocyte-colony stimulating factor and recombinant human macrophage-colony stimulating factor synergize in vivo to enhance proliferation of granulocyte-macrophage, erythroid, and multipotential progenitor cells in mice*. J Cell Biochem, 1988. **38**(2): p. 127-36.
2808. Nocka, K.H. and L.M. Pelus, *Cell cycle specific effects of deferoxamine on human and murine hematopoietic progenitor cells*. Cancer Res, 1988. **48**(13): p. 3571-5.
2809. Broxmeyer, H.E., et al., *The influence in vivo of murine colony-stimulating factor-1 on myeloid progenitor cells in mice recovering from sublethal dosages of cyclophosphamide*. Blood, 1987. **69**(3): p. 913-8.
2810. Broxmeyer, H.E., et al., *Synergistic myelopoietic actions in vivo after administration to mice of combinations of purified natural murine colony-stimulating factor 1, recombinant murine interleukin 3, and recombinant murine granulocyte/macrophage colony-stimulating factor*. Proc Natl Acad Sci U S A, 1987. **84**(11): p. 3871-5.
2811. Zucali, J.R., et al., *Regulation of early human hematopoietic (BFU-E and CFU-GEMM) progenitor cells in vitro by interleukin 1-induced fibroblast-conditioned medium*. Blood, 1987. **69**(1): p. 33-7.
2812. Broxmeyer, H.E., et al., *The influence of purified recombinant human heavy-subunit and light-subunit ferritins on colony formation in vitro by granulocyte-macrophage and erythroid progenitor cells*. Blood, 1986. **68**(6): p. 1257-63.
2813. Smith, S. and H.E. Broxmeyer, *The influence of oxygen tension on the long-term growth in vitro of haematopoietic progenitor cells from human cord blood*. Br J Haematol, 1986. **63**(1): p. 29-34.
2814. Souza, L.M., et al., *Recombinant human granulocyte colony-stimulating factor: effects on normal and leukemic myeloid cells*. Science, 1986. **232**(4746): p. 61-5.

2815. Vohwinkel, C., E. Lecuona, and J. Sznajder, *Hypercapnia Leads to Mitochondrial Dysfunction and Decreased Cell Proliferation*. Am J Respir Crit Care Med, 1986. **179**: p. 2009.
2816. Broxmeyer, H., et al., *The synergistic influence of human interferon-gamma and interferon-alpha on suppression of hematopoietic progenitor cells is additive with the enhanced sensitivity of these cells to inhibition by interferons at low oxygen tension in vitro*. The Journal of Immunology, 1985. **135**(4): p. 2502-2506.
2817. Gibson, S.L. and R. Hilf, *Interdependence of fluence, drug dose and oxygen on hematoporphyrin derivative induced photosensitization of tumor mitochondria*. Photochem Photobiol, 1985. **42**(4): p. 367-73.