

2016 Abstracts, posters and presentations

**** shows those that were award winning***

Adeoye OO, Sorensen DW, Williams J, Pearce WJ. "Hypoxic Regulation of Vascular Proteasomal Degradation of MLCK." Experimental Biology. San Diego, CA. 2016

Ahmed A, Baylink DJ, Rundle CH, Biswanath P, Lau KHW, Sheng MH, "Unique regeneration mechanism to restore bone after dietary calcium deficiency." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

Ahmed A, Baylink DJ, Lakhan R, Lau KHW, Sheng MH, "CD105+MSCs/osteoprogenitors provide a cellular source necessary for bone repair." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

*Baghchechi M, Hamer M, Haddad E, Obenaus A, "Imatinib Decreases Lesion Volume, Without Altering Perilesional MRI Tissue Characteristics at 24 Hours post Traumatic Brain Injury." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

Baio J, Walden R, Hasaniya N, Bailey L, Wilson C, Kearns-Jonker M, " Sinoatrial node development from primordial cardiovascular progenitor cells." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

Cothran K, Sandy S, Romero M, Dobyys A, Paez R, Francis M, Taylor MS, Longo LD, Wilson CG, WilsonSM, "Chronic and Acute Hypoxia Markedly Alter Ca²⁺ Signaling in Adult and Fetal Pulmonary Arterial Myocytes." Experimental Biology. San Diego, CA. 2016

Durrant L, Jackson PN, Carreon D, Doan C, Pearce WJ, "Decreased Glucocorticoid Exposure In Utero Alters Cerebral Artery Development and Reduces Ischemia-Induced Vascular Injury in the Neonatal Rat Brain." Experimental Biology. San Diego, CA. 2016

*Gamboa Y, Affeldt B, Pardo AC, Obenaus A, "A Rapid Semi-Automated Cell Counting Methodology for Oligodendrocyte Markers." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

Gonda A, Khan S, Ferguson Bennit HR, Moyron RB, McMullen J, Wall NR, "Exosomal Survivin associates with endocytosis receptors." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

Goyenaga G, Yoo T, Romero M, Puglisi J, Longo LD, Wilson SM, "Acute Hypoxia and Ryanodine Receptor Activity in Pulmonary Arterial Myocytes of High Altitude Acclimatized Fetal and Adult Sheep." Experimental Biology. San Diego, CA. 2016

*Haddad E, Kalyan-Masih P, Vega-Torres JD, Miles C, Rainsbury S, Baghchechi M, Figueroa JD, Obenaus A, "Physiological Changes in the Stress Circuitry in Response to Western High-fat Diet Consumption." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

Johnson R, Murray S, Wilson CG "Lipopolysaccharide-Induced IL-6 and TNF-Alpha Expression in Neonatal Rat nucleus tractus solitarii (NTS) In Vivo." Experimental Biology. San Diego, CA. 2016

Kim D, Doan C, Carreon D, Budbazar E, Zhang JH, Pearce WJ, "Osteopontin Attenuates Changes in Cerebrovascular Structure-Function Relations Induced by Subarachnoid Hemorrhage in Rat Brain. Experimental Biology. San Diego, CA. 2016

*Lee JB, Affeldt B, Gamboa Y, Pardo AC, Obenaus A, "Mild Pediatric Traumatic Brain Injury Elicits Long-Term Oligodendrocyte-Associated White Matter Dysregulation." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

Licero JC, Serrano M, Cordero K, Figueroa JD, De Leon M, "Functional Contexts And Roles Of Fatty Acid Binding Proteins 4 And 5 In Rats Following Spinal Cord Injury." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

Mukosera G, Liu T, Power G, Blood A, "Rapid metabolism of plasma dinitrosyl iron complexes attenuates their vasodilatory properties." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

Nishiyama NC, Jones T, Pecaut MJ, Mao XW , "Two-photon laser scanning microscopy to visualize neurovascular networks and microglia." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

Reid C, Romero M, Francis M, Taylor MS, Longo LD, Hessinger DA, Wilson SM. "Long-Term Hypoxia Reduces Ca²⁺ Wave Function in Basilar Arterial Myocytes of Fetal and Adult Sheep." Experimental Biology. San Diego, CA. 2016

Sanchez N, Torres E, Howard K, Kirsch WM, "Determination of Copper Transport Protein P62 as a Significant Contributor to Alzheimer's Disease Pathology." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

Thorpe RB, Williams JM, Pearce WJ. "Chronic Hypoxia Downregulates Colocalization of PKG with Its Target BK Channel Proteins in Ovine Cerebral Arteries." Experimental Biology. San Diego, CA. 2016

Toomey C, Baio J, Martinez A, Bailey L, Hasaniya N, Kearns-Jonker M, "A Novel Approach to 3D Tissue Preparation of Cardiac Progenitor Cells using the "Kenzan" method." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

Williams P, Murray S, Wilson CG. "Developmental Changes in Breathing Pattern and Neuronal Morphology in the Respiratory Centers of the Neonatal Rat." Experimental Biology. San Diego, CA. 2016

Williams PA, Wilson CG, "Postnatal maturation of neuronal morphology in the hypoglossal motor nucleus of the developing rat." 19th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2016

2016 Publications

Blum-Johnston C, Thorpe RB, Wee C, Romero M, Brunelle A, Blood Q, Wilson R, Blood AB, Francis M, Taylor MS, Longo LD, Pearce WJ, Wilson SM, "Developmental acceleration of bradykinin-dependent relaxation by prenatal chronic hypoxia impedes normal development after birth." Am J Physiol Lung Cell Mol Physiol. PMID: 26637638. 2016

Crofton AR, "Chitosan Decontamination with Non-Thermal Nitrogen Plasma to Enable Internal Use" (2016). Loma Linda University Electronic Theses, Dissertations & Projects. 351.
<http://scholarsrepository.llu.edu/etd/351>

Dubicke A, Ekman-Ordeberg G, Mazurek P, Miller L, Yellon SM, "Density of Stromal Cells and Macrophages Associated With Collagen Remodeling in the Human Cervix in Preterm and Term Birth." Reprod Sci. PMID: 26608218. 2016

Figuroa JD, Serrano-Illan M, Licero J, Cordero K, Miranda JD, De Leon M, "Fatty Acid Binding Protein 5 Modulates Docosahexaenoic Acid-Induced Recovery in Rats Undergoing Spinal Cord Injury." J Neurotrauma. 2016. PMCID: PMC4971412

Gay M, "Effects of Neonatal Dexamethasone on the Maturation and Endowment of Cardiomyocytes" (2016). Loma Linda University Electronic Theses, Dissertations & Projects. 373.
<http://scholarsrepository.llu.edu/etd/373>

Gay MS, Dasgupta C, Li Y, Kanna A, Zhang L, "Dexamethasone Induces Cardiomyocyte Terminal Differentiation via Epigenetic Repression of Cyclin D2 Gene." *J Pharmacol Exp Ther*. PMID: 27302109. 2016

Halavi S, "Phenotyping Double Transgenic Mouse Models of Alzheimer's that Express Human APP and ApoE3 or ApoE4" (2016). Loma Linda University Electronic Theses, Dissertations & Projects. 394. <http://scholarsrepository.llu.edu/etd/394>

Hirt L, Fukuda AM, Ambadipudi K, Rashid F, Binder D, Verkman A, Ashwal S, Obenaus A, Badaut J, "Improved long-term outcome after transient cerebral ischemia in aquaporin-4 knockout mice." *J Cereb Blood Flow Metab*. PMID: 26767580. 2016

Huang L, Obenaus A, Hamer M, Zhang JH, "Neuroprotective effect of hyperbaric oxygen therapy in a juvenile rat model of repetitive mild traumatic brain injury." *Med Gas Res*. 2016. PMID: PMC5223309

Johnson RL, Murray ST, Camacho DK, Wilson CG, "Vagal nerve stimulation attenuates IL-6 and TNF α expression in respiratory regions of the developing rat brainstem." *Respir Physiol Neurobiol*. PMID: 27049312. 2016

Kirby MA, Heuerman AC, Custer M, Dobyans AE, Strilaeff R, Stutz KN, Cooperrider J, Elsisy JG, Yellon SM, "Progesterone Receptor-Mediated Actions Regulate Remodeling of the Cervix in Preparation for Preterm Parturition." *Reprod Sci*. PMID: 27233754. 2016

Li Y, Ma Q, Halavi S, Concepcion K, Hartman RE, Obenaus A, Xiao D, Zhang L, "Fetal stress-mediated hypomethylation increases the brain susceptibility to hypoxic-ischemic injury in neonatal rats." *Exp Neurol*. PMID: 26597542. 2016

Liu T, Schroeder HJ, Wilson SM, Terry MH, Romero M, Longo LD, Power GG, Blood AB, "Local and systemic vasodilatory effects of low molecular weight S-nitrosothiols." *Free Radic Biol Med*. PMID: 26686469. 2016

Liu T, Schroeder HJ, Zhang M, Wilson SM, Terry MH, Longo LD, Power GG, Blood AB. S-nitrosothiols dilate the mesenteric artery more potently than the femoral artery by a cGMP and L-type calcium channel-dependent mechanism. *Nitric Oxide*. 58:20-7. 2016. PMID: 27235767; PMCID: PMC6322392.

Ma Q, Dasgupta C, Li Y, Bajwa NM, Xiong F, Harding B, Hartman R, Zhang L, "Inhibition of microRNA-210 provides neuroprotection in hypoxic-ischemic brain injury in neonatal rats." *Neurobiol Dis*. PMID: 26875527. 2016

McGovern KE, "Influences on T cell migration behavior in the inflamed brain." University of California, Riverside, Department of Biochemistry Dissertations. ISBN 9781369087857 2016. OCLC/BIB 965799435. 2016

Pearce WJ, Doan C, Carreon D, Kim D, Durrant LM, Manaenko A, McCoy L, Obenaus A, Zhang JH, Tang J, "Imatinib attenuates cerebrovascular injury and phenotypic transformation after intracerebral hemorrhage in rats." *Am J Physiol Regul Integr Comp Physiol*. 2016. PMCID: PMC5256978