

2017 Abstracts, posters and presentations

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

*Badaut J, Ichkova A, Coutrand G, Bertrand SS, Rodriguez-Grande B, Obenaus A, "Intracortical blood-vessel and MRI alterations after juvenile closed head injury." Society for Neuroscience. Washington, DC. 2017

Baio J, Martinez AF, Hasaniya N, Bailey L, Pecaut M, Kearns-Jonker M, "Mechanical unloading impacts calcium signaling and promotes an earlier developmental state in neonatal cardiovascular progenitors." 20th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Blum-Johnston CM, Romero M, Wee C, Blood Q, Wilson RH, Blood AB, Francis M, Taylor MS, Longo LD, Wilson SM. "Chronic Hypoxia uncouples Ca²⁺ and eNOS in bradykinin-induced relaxation of Ovine pulmonary arteries." FASEB J. 2017. 31:1073.1

Chitsike L, Radhakrishnan V, De Leon D, "IGF-II mediates the metabolic shift of cells towards enhanced glucose and fatty acid oxidation in Triple Negative Breast Cancer (TNBC)." 20th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Cox B, Kim C, Chintalapati S, Perez MC, Simental AA, Munir T, Munir I, Firek AA, Khan S, "A differential subcellular expression pattern of a gene in well-differentiated thyroid cancer to anaplastic thyroid cancer." 20th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Hardister L, Hunter V, Opsahl R, Romero M, Murray S, Zhang LB, Wilson SM, "A23187 induce relaxation of adult sheep pulmonary arteries." 17th Annual Health Disparities Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Hunter V, Hardister L, Osphal R, Romero M, Murray S, Zhang LB, Wilson SM, "Pulmonary arteries from fetal sheep are unresponsive to stimulation of the endothelium with A23187." 17th Annual Health Disparities Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Iñesta-Rivera JP, Sanchez N, Kirsch W, "Assessing copper localization techniques: A path in identifying the most accurate fluorescent probes in neuropathological diseases." 17th Annual Health Disparities Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Johnson RL, Murray S, Wilson CG, "Effects of lipopolysaccharide injection on in vivo breathing pattern in developing rats." FASEB J. 2017. 31:724.4

Knox C, Garcia K, Baio J, Kearns-Jonker M, Martens T, "Tissue Engineered Arterial Conduits for Congenital Heart Surgery." 20th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2017

*Kwon A, Lee C, Chintalapati S, Perez M, Lei L, Simental A, Ramos S, Roberts K, Munir I, Firek A, De Leon M, Khan S, "Differential subcellular expression patterns of enigma & its

binding partners in well-differentiated cancer to anaplastic thyroid cancer." 17th Annual Health Disparities Research Symposium. Loma Linda University, Loma Linda, CA. 2017

*Licero Campbell J, Serrano Illán M, McNichol B, Panse O, Figueroa J, De Leon M, "Upregulation of fatty acid binding protein 4 is associated with increased mRNA and protein levels of proinflammatory/stress-response proteins." 17th Annual Health Disparities Research Symposium. Loma Linda University, Loma Linda, CA. 2017

*Mao XW, Rodriguez D, Jones T, Nishiyama N, Campbell-Beachler M, Stanbouly S, Hauer-Jensen M, Boerma M, Nelson GA, "Acute effects of low-dose proton irradiation or in combination with

simulated microgravity." 20th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2017

*Ortiz Vicil A, Radhakrishnan V, De León D, "Characterization of a newly identified differentially methylated region of the IGF-II gene in paired breast cancer tissues from African American and Caucasian patients." 17th Annual Health Disparities Research Symposium. Loma Linda University, Loma Linda, CA. 2017

*Ramos S, Roberts K, Perez M, Munir I, Simental A, De Leon M, Khan S, "Linking high body mass index and leptin receptor to thyroid cancer health disparities." 17th Annual Health Disparities Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Sanchez N, Kirsch WM, "Testing Copper Dysregulations as a possible upstream factor to Alzheimer's disease." 20th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Sanchez N, Iñesta-Rivera JP, Kirsch W, "Validating copper probes for the use in human pathological studies: A comparative study." 17th Annual Health Disparities Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Silva I, Martinez A, Hasaniya N, Bailey LL, Kearns-Jonker M, "Early Cardiovascular Stem Cell Transplantation Induces Recruitment of Endogenous c-kit+ and CD14+ Cells." 20th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Thomas J, Yoo T, Romero M, Puglisi J, Zhang LB, Wilson S, "Arterial myocytes of high altitude acclimatized fetal and adult sheep." 17th Annual Health Disparities Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Whinnery C, Cupino T, Kirsch W, "Transfection of Fetal Cerebrovascular Smooth Muscle Cells with Targeted Chitosan Nanoparticles." 20th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Williams PA, Dalton C, Wilson CG, "Modeling changes in passive electrophysiological properties as a function of developmental neuronal morphology in neonatal brainstem motorneurons." 20th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2017

Williams PA, Dalton C, Wilson CG, "Modeling biophysical property changes as a function of developmental neuronal morphology in the respiratory centers of the neonatal rat. XIV Oxford Conference on Modeling and Control of Breathing, Merton College, Oxford, UK. 2017

Williams PA, Wilson CG, "Effects of perinatal nicotine or inflammation exposure on ventilation in the developing rat model." FASEB J. 2017. 31:727.9

2017 Publications

Baio JM, Walden RC, Fuentes TI, Lee CC, Hasaniya NW, Bailey LL, Kearns-Jonker MK, "A Hyper-Crosslinked Carbohydrate Polymer Scaffold Facilitates Lineage Commitment and Maintains a Reserve Pool of Proliferating Cardiovascular Progenitors." Transplant Direct. 2017. PMID: PMC5441984

Firek AA, Perez MC, Gonda A, Lei L, Munir I, Simental AA, Carr FE, Becerra BJ, De Leon M, Khan S, "Pathologic significance of a novel oncoprotein in thyroid cancer progression. Head Neck. 2017. PMID: 29024261

Hubbell, MC, "The Role of VEGF and Smooth Muscle Phenotype in Hypoxic Remodeling of Ovine Carotid and Cerebral Arteries" (2017). Loma Linda University Electronic Theses, Dissertations & Projects. 464. <http://scholarsrepository.llu.edu/etd/464>

Hashad AM, Mazumdar N, Romero M, Nygren A, Bigdely-Shamloo K, Harraz OF, Puglisi JL, Vigmond EJ, Wilson SM, Welsh DG, "Interplay among distinct Ca²⁺ conductances drives Ca²⁺ sparks/spontaneous transient outward currents in rat cerebral arteries." *J Physiol*. 2017. PMID: 27805790

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*. 37(1):277-290. 2017. PMID: 26767580; PMCID: PMC5363745.

Judkins A, Johnson RL, Murray ST, Yellon SM, Wilson CG, "Vagus nerve stimulation in pregnant rats and effects on inflammatory markers in the brainstem of neonates." *Pediatr Res*. 2017. PMID: 29053705

Li CH, Zhang J, Baylink DJ, Wang X, Goparaju NB, Xu Y, Wasnik S, Cheng Y, Berumen EC, Qin X, Lau KW, Tang X, "Dendritic cells, engineered to overexpress 25-hydroxyvitamin D 1 α -hydroxylase and pulsed with a myelin antigen, provide myelin-specific suppression of ongoing experimental allergic encephalomyelitis." *FASEB J*. 2017. PMID: 28363955

*Lizano P, Rashed E, Stoll S, Zhou N, Wen H, Hays TT, Qin G, Xie L, Depre C, Qiu H, "The valosin-containing protein is a novel mediator of mitochondrial respiration and cell survival in the heart in vivo." *Sci Rep*. 2017. PMCID: PMC5397870

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*. 2017. May 1. PMCID: PMC4785034

Ma Q, Dasgupta C, Li Y, Huang L, Zhang L, "MicroRNA-210 Suppresses Junction Proteins and Disrupts Blood-Brain Barrier Integrity in Neonatal Rat Hypoxic-Ischemic Brain Injury." *Int J Mol Sci*. 2017. PMID: 28672801

Obenaus A, Ng M, Orantes AM, Kinney-Lang E, Rashid F, Hamer M, DeFazio RA, Tang J, Zhang JH, Pearce WJ, "Traumatic brain injury results in acute rarefaction of the vascular network." *Sci Rep*. 2017. PMCID: PMC5427893

Rios-Colón, L, "Targeting LEDGF/p75 to Sensitize Chemoresistant Prostate Cancer Cells to Taxanes" (2017). Loma Linda University Electronic Theses, Dissertations & Projects. 459. <http://scholarsrepository.llu.edu/etd/459>

Silpanisong J, Kim D, Williams JM, Adeoye OO, Thorpe RB, Pearce WJ, "Chronic hypoxia alters fetal cerebrovascular responses to endothelin-1." *Am J Physiol Cell Physiol*. 2017. PMID: 28566491

Singh N, Herbert B, Sooranna GR, Orsi NM, Edey L, Dasgupta T, Sooranna SR, Yellon SM, Johnson MR, "Is myometrial inflammation a cause or a consequence of term human labour?" *J Endocrinol*. 2017. PMID: 28765265

Thorpe RB, Hubbell MC, Silpanisong J, Williams JM, Pearce WJ, "Chronic hypoxia attenuates the vasodilator efficacy of protein kinase G in fetal and adult ovine cerebral arteries." *Am J Physiol Heart Circ Physiol*. 2017 PMID: 28550175

Zhang JP, Li XL, Li GH, Chen W, Arakaki C, Botimer GD, Baylink D, Zhang L, Wen W, Fu YW, Xu J, Chun N, Yuan W, Cheng T, Zhang XB, "Efficient precise knockin with a double cut HDR donor after CRISPR/Cas9-mediated double-stranded DNA cleavage." *Genome Biol*. 2017. PMID: PMC5319046.