

2014 Abstracts, posters and presentations

Blum-Johnson C, Wee C, Blood Q, Wilson RH, Blood AB, Longo LD, Wilson SM, "Chronic hypoxia increases the importance of BKCa channels to bradykinin-mediated pulmonary vasodilation in fetal sheep." Experimental Biology. San Diego, CA. 2014

Brunelle A, Blood Q, Longo LD, Wilson SM, "Antenatal Chronic Hypoxia and L-type Ca²⁺ dependent contractility of pulmonary arteries from fetal sheep." Experimental Biology. San Diego, CA. 2014

Custer M, Osman N, Wilson CG, "Lipopolysaccharide-induced changes in neonatal rat nucleus tractus solitaries (NTS) in vitro." Society for Neuroscience meeting. Washington, DC. 2014

Crofton A, Pender T, Hudson S, DiNinni A, Stevick C, Sanchez N, Kirsch W, "Expansion of Clinical Uses of Chitosan by Decontamination with Nitrogen Plasma." 17th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2014

Dobyns A, Shen C, Romero M, Kaushal S, Wilson CG, Wilson SM, "Automated method for detecting correlated Ca²⁺ activity between multiple regions of interest." 11th International Symposium on Resistance Arteries (ISRA). Banff, Canada. 2014

Glasgow S, Tao X, Romero M, Osman N, Puglisi J, Bers DM, Izu LT, Longo LD, Hessinger D, Wilson SM, "Maturation, ryanodine receptor-mediated calcium sparks and BK channel clustering in basilar arterial myocytes from long term hypoxic sheep." 11th International Symposium on Resistance Arteries (ISRA). Banff, Canada. 2014

Glasgow S, Tao X, Romero M, Osman N, Puglisi J, Bers DM, Izu LT, Longo LD, Hessinger D, Wilson SM, "Ontogeny, ryanodine receptor-mediated calcium sparks, and BK channel clustering in basilar arterial myocytes from long term hypoxic sheep." Experimental Biology. San Diego, CA. 2014

Harras O, Hashad A, Zechariah A, Welch SB, Wilson SM, Welch D, "Cav3.2 knockout mice display enhancement myogenic tone due to reduced BkCa-mediated feedback." 11th International Symposium on Resistance Arteries (ISRA). Banff, Canada. 2014

Hessinger DA, Thorington GU, Sokolova I, Longo LD, "Channel differences in ovine near-term fetus and adult small pulmonary arteries." 17th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2014

Jullienne A, Badaut J, Robert J, Pop V, Murphy MP, Head E, Bix GJ, Pearce WJ, "2-Perivascular basement membrane proteins changes long-term after a juvenile traumatic brain injury: possible link with amyloid-beta accumulation ." Society for Neuroscience meeting. Washington, DC. 2014

Kaushal S, Romero M, Osman N, Paez R, Francis M, Taylor MS, Longo LD, Wilson SM, "Oxidative stress and the impact of prenatal chronic hypoxia on ryanodine receptor generated calcium responses in fetal pulmonary arterial myocytes." Experimental Biology. San Diego, CA. 2014

Latschaw K, Adeoye OO, Silpanisong J, Kim D, Williams JD, Pearce WJ, "NPY is a regulator of hypoxic cerebrovascular remodeling in fetal lambs." FASEB J. 2014

McGovern KE, Noor S, Nichols HL, DeFea KA, and Wilson EH. "Role for b-arrestin 2 in T cell Migration During Toxoplasma gondii Infection." The 7th Annual Symposium on Glial-Neuronal Interactions in Health and Disease. UC Riverside, California. (KEM presented). 2014

McGovern KE, Noor S, Nichols HL, DeFea KA, and Wilson EH. "Role for b-arrestin 2 in T cell Migration During Toxoplasma gondii Infection." The 27th Annual Biochemistry and Molecular Biology Research Symposium. UC Riverside, California. (KEM presented). 2014

Paez R, Romero M, Blood Q, Osman N, Manjunath C, Glasgow S, Francis M, Taylor MS, Longo LD, Wilson SM, "cGMP amplification of pulmonary arterial myocytes Ca²⁺ waves is

preferentially impaired in high altitude-induced hypoxic fetal sheep.” *Experimental Biology*. San Diego, CA. 2014

Sandy S, Romero M, Paez R, Francis M, Taylor MS, Longo LD, Wilson SM, “Acute hypoxia-induced endothelium-dependent suppression of Ca²⁺ waves in ovine pulmonary artery smooth muscle cells.” 17th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2014

Sandy S, Romero M, Paez R, Francis M, Taylor MS, Longo LD, Wilson SM, “Acute hypoxia-induced endothelial-dependent suppression of Ca²⁺ waves in pulmonary arterial myocytes of sheep.” *Experimental Biology*. San Diego, CA. 2014

Suarez G, Glasgow S, Romero M, Osman N, Puglisi J, Bers DM, Izu LT, Longo LD, Wilson SM, “Preservation of Ca²⁺ sparks activity during oxidative stress in pulmonary arterial myocytes of fetal sheep.” *Experimental Biology*. San Diego, CA. 2014

Shen C, Romero M, Brunelle A, Dobyns A, Francis M, Taylor M, Longo LD, Wilson CG, Wilson SM, “Activation of L-type calcium channels influences calcium waves after long-term hypoxia and maturation.” 17th Annual Basic Sciences Research Symposium. Loma Linda University, Loma Linda, CA. 2014

2014 Publications

Adeoye O, Bouthors V, Hubbell MC, Williams JM, Pearce WJ, “VEGF Receptors Mediate Hypoxic remodeling of Adult Ovine Carotid Arteries,” *Journal of Applied Physiology*. PMID: 25038104. 2014

Adeoye O, Silpanisong J, Williams JM, Pearce WJ, “Role of the sympathetic autonomic nervous system in the hypoxic remodeling of the fetal cerebral vasculature.” *Journal of Cardiovascular Pharmacology*. PMID: 25853949. 2014

Badaut J, Ajao D, Sorensen D, Fuduka A, Pellerin L, "Caveolin expression changes in the neurovascular unit after juvenile traumatic brain injury: signs of blood-brain barrier healing?" *Neuroscience*. PMID: 25450954. 2014

Badaut J, Fuduka AM, Jullienne A, Petry KG, "Aquaporin and brain diseases," *Biochimic Biophys Acta*. PMID: 24513456. 2014

Badaut J, Bix GJ, "Vascular Neural Network phenotypic transformation after traumatic injury: potential role in long-term sequelae." *Transl Stroke Res*. PMID: 24323723. 2014

Durrant LM, Khorram O, Buchholz JN, Pearce WJ, "Maternal food restriction modulates cerebrovascular structure and contractility in adult rat offspring: Effects of metyrapone." *American Journal of Physiology, Regulatory Physiology*. PMID: 24477541. 2014

Harras OF, Abd El-Rahman RR, Bigdely-Shamloo K, Wilson SM, Brett SE, Romero M, Gonzales AL, Earley S, Vigmond EJ, Nygren A, Menon BK, Mufti RE, Watson T, Starreveld Y, Furstenhaupt T, Muellerleile PR, Kurjiaka DT, Kyle BD, Braun AP, Welsh DG, "Ca(V)_{3.2} channels and the induction of negative feedback in cerebral arteries." *Circ Res*. PMID: 25085940. 2014

Jullienne A, Roberts JM Pop V, Murphy PM, Head E, Bix GJ, Badaut J, "Juvenile traumatic brain injury induces long-term perivascular matrix changes alongside amyloid-beta accumulation." *J Cereb Blood Flow Metab*. PMID: 25052558. 2014

Karain BD, "Towards a Better Treatment of Parkinson's disease." Loma Linda University Electronic Theses & Dissertations. 2014. Paper 160.

Khan S, Bennit HF, Turay D, Perez M, Mirshahidi S, Yuan Y, Wall NR. Early diagnostic value of survivin and its alternative splice variants in breast cancer. *BMC Cancer*. 14:176. 2014. PMID: 24620748; PMCID: PMC3995700.

Paradis A, Xiao D, Zhou J, Zhang L, Endothelin-1 promotes cardiomyocyte terminal differentiation in the developing heart via heightened DNA methylation." *Int J Med Sci*. PMID: 24578615. 2014

Sun SJ, Liang HF, Mei J, Xu D, Shi WX, "In vivo Diffusion Tensor Imaging of Amyloid- β -Induced White Matter Damage in Mice." *J Alzheimers Dis*. PMID: 24077431. 2014