

2020 Abstracts, posters and presentations

Jones BR, Leslie E, Alvarez R, Dasgupta C, Zhang L, Wilson SM, "High Altitude Hypoxia Induces Cellular Immaturity of Pulmonary Arteries in the Fetal Lamb: Assessment of Protein Biomarkers." FASEB J 34(S1):1-1: 2020

Levine T, Romero M, Shin A, Zhang L, Wilson SM, "TRPML channel activation partially rescues Ca²⁺ spark activity in sheep fetal pulmonary arterial myocytes following intrauterine long-term hypoxia." FASEB J 34(S1):1-1: 2020

Murray S, Hanson SFL, Blood AB, Wilson SM, "Pulmonary arterial vasoreactivity changes due to the birth transition and the influence of high altitude gestation in lambs." FASEB J 34(S1): 2020

Ang D, Romero M, Puglisi J, Zhang L, Wilson SM, "TRPML channel activation partially rescues Ca²⁺ spark activity in sheep fetal pulmonary arterial myocytes following intrauterine long-term hypoxia." FASEB J 34(S1): 2020

Leslie E, Jones B, Alvarez R, Dasgupta C, Fiehn O, Bosviel R, Newman JW, Frano MR, Zhang L, Wilson SM, "Gestational High-Altitude Hypoxia and Metabolomic Reprogramming in Pulmonary Arteries from Fetal Sheep." FASEB J 34(S1): 2020

Hanson SFL, Murray S, Wilson SM, Blood AB, "A comparison of mitochondrial respiratory function in adult and fetal sheep pulmonary arteries." FASEB J 34(S1): 2020

Cacho B, Abdala J, Wilson CG, "Anti-inflammatory effects of vagus nerve simulation in a newborn rat model of acute inflammation." FASEB J 34(S1): 2020

Liu B, Liang X, Jie J, Li Y, Dasgupta C, Huang X, Zhang L, Shao XM, Xiao D, "Prenatal chronic intermittent nicotine aerosol exposure programming a sex dependent hypertensive phenotype via vascular eNOS uncoupling." FASEB J 34(S1): 2020

Hakim MA, Behringer EJ, "Alzheimer's disease as a condition of accelerated aging of cerebrovascular endothelial function." FASEB J 34(S1): 2020

*Oyefeso F, Vasquez ME, Bertucci A, Goldberg G, Muotri AR, Pecaut MJ, "Brain organoids: a novel tool to study oxidative stress-induced human central nervous system damage following exposure to ionizing radiation." Loma Linda Basic Sciences 23rd Symposium in partnership with the Inland Empire Stem Cell Consortium. Virtual. 2020

*Altamirano AW, Mendez Y, Sacks M, Radulescu A, Wilson CG, "Heparin Binding Growth-like Factor (HB-EGF) is a key factor in a neonatal mouse model of Necrotizing Enterocolitis (NEC)," Loma Linda Basic Sciences 23rd Symposium in partnership with the Inland Empire Stem Cell Consortium. Virtual. 2020

Leslie E, Lopez V, Anti NA, Alvarez R, Kafeero I, Welsh DG, Romero M, Kaushal S, Johnson C, Bosviel R, Iazencovic I, Song R, Brito A, La Frano MR, Zhang L, Newman JW, Fiehn O, Wilson SM, "Gestational long term hypoxia induces metabolomic reprogramming and phenotypic transformation in fetal sheep pulmonary arteries." Loma Linda Basic Sciences 23rd Symposium in partnership with the Inland Empire Stem Cell Consortium. Virtual. 2020

Levine T, Romero M, Zhang L, Wilson SM, "TRPML activated Ca²⁺ oscillations is aberrant in fetal pulmonary myocytes exposed to long term hypoxia." Loma Linda Basic Sciences 23rd Symposium in partnership with the Inland Empire Stem Cell Consortium. Virtual. 2020

Ontiveros-Angel P, Vega-Torres JD, Jullienne A, Haddad E, Avitua A, Ford BD, Obenaus A, Figueroa J, "Therapeutic potential of neuregulin-1 for diet induced cognitive deficits." Loma Linda Basic Sciences 23rd Symposium in partnership with the Inland Empire Stem Cell Consortium. Virtual. 2020

Kirsch W, Holshouser B, Brier-Jones J, Whinnery C, Jaeger A, Iwakoshi N, Hudson S, Nie Y, Petersen F, Vinters HV, Zhang X, Crofton A, Barnes S, Hartman R, Magaki S, Shannon S, Fabian F, Smallwood J, "Microparticle Therapy for CAA." 7th International CAA Conference, Virtual. 2020

*Hakim MA, Behringer EJ, "Removal of membrane cholesterol selectively restores KIR channel function in brain endothelium during Alzheimer's disease." Loma Linda Basic Sciences 23rd Symposium in partnership with the Inland Empire Stem Cell Consortium. Virtual. 2020

*Chum PP, Behringer EJ, "Cerebrovascular miRNA expression profile during development of Alzheimer's disease." Loma Linda Basic Sciences 23rd Symposium in partnership with the Inland Empire Stem Cell Consortium. Virtual. 2020

Talbot K, "Developing CNS therapeutics for brain insulin resistance in Alzheimer's disease (AD) and mild cognitive impairment (MCI)". Virtual Alzheimer's Association International Conference. Amsterdam, the Netherlands. 2020

2020 Publications

Abbas M, Haddad E, Hamer M, Nowrangi D, Zhang J, Pearce WJ, Tang J, Obenaus A, "Acute Treatment With Gleevec Does Not Promote Early Vascular Recovery Following Intracerebral Hemorrhage in Adult Male Rats." Front Neurosci. 2020. PMID: 32116501.

Franco PN, Durrant LM, Carreon D, Haddad E, Vergara A, Cascavita C, Obenaus A, Pearce WJ, "Prenatal metyrapone treatment modulates neonatal cerebrovascular structure, function, and vulnerability to mild hypoxic-ischemic injury." Am J Physiol Regul Integr Comp Physiol. 2020. PMID: 31577477

Hu XQ, Song R, Romero M, Dasgupta C, Min J, Hatcher D, Xiao D, Blood AB, Wilson SM, Zhang L, "Gestational Hypoxia Inhibits Pregnancy-Induced Upregulation of Ca²⁺ Sparks and Spontaneous Transient Outward Currents in Uterine Arteries Via Heightened Endoplasmic Reticulum/Oxidative Stress." *Hypertension*. 2020. PMID: 32683903.

Infantino M, Carbone T, Manfredi M, Grossi V, Benucci M, Casiano CA, Bizzaro N, "Dense fine speckled (DFS) immunofluorescence pattern and anti-DFS70 antibodies: Cleaning up the current concepts." *Clin Chim Acta*. 2020. PMID: 32645389.

Mayagoitia K, Shin SD, Rubini M, Siebold L, Wilson CG, Bellinger DL, Figueroa JD, Soriano S, "Short-term exposure to dietary cholesterol is associated with downregulation of interleukin-15, reduced thigmotaxis and memory impairment in mice." *Behav Brain Res*. 2020. PMID: 32585301.

Ortiz-Hernandez GL, Sanchez-Hernandez ES, Casiano CA, "Twenty years of research on the DFS70/LEDGF autoantibody-autoantigen system: many lessons learned but still many questions." *Auto Immun Highlights*. 2020. DOI: 10.1186/s13317-020-0126-4. PMID: 32127038.

Salameh TS, Rhea EM, Talbot K, Banks WA, "Brain uptake pharmacokinetics of incretin receptor agonists showing promise as Alzheimer's and Parkinson's disease therapeutics." *Biochem Pharmacol*. 2020. PMID: 32755557.

Shen G, Hu S, Zhao Z, Zhang L, Ma Q. "Antenatal Hypoxia Accelerates the Onset of Alzheimer's Disease Pathology in 5xFAD Mouse Model." *Front Aging Neurosci*. 2020. DOI: 10.3389/fnagi.2020.00251. PMID: 32973487.

Siebold L, Krueger AC, Abdala JA, Figueroa JD, Bartnik-Olson B, Holshouser B, Wilson CG, Ashwal S, "Cosyntropin Attenuates Neuroinflammation in a Mouse Model of Traumatic Brain Injury." *Front Mol Neurosci*. 2020. PMID: 32670020.

Yellon SM, "Immunobiology of Cervix Ripening." *Front Immunol*. 2020. PMID: 32038651