

2019 Abstracts, posters and presentations

Alvarez R, Leslie E, Jones BR, Dasgupta C, Bosviel R, La Frano M, Newman J, Fiehn O, Zhang L, Wilson SM, "Hypoxia-induced upregulation of histones in fetal sheep pulmonary arteries." 19th Annual Health Disparities Research Symposium. Loma Linda University School of Medicine, Loma Linda, California. 2019

Appiah-Boateng Y, Ortiz-Hernandez G, Casiano C, "Multiple transcription factors are upregulated in docetaxel resistant prostate cancer cells and interact with the stress oncoprotein ledgf/p75." 19th Annual Health Disparities Research Symposium. Loma Linda University School of Medicine, Loma Linda, California. 2019

Black R, Mitchell I, Mayagoitia K, Soriano S, "Cholesterol metabolite 27-hydroxycholesterol and its effects on monocyte chemoattractant protein as a potential link between cholesterol dysregulation and neuronal inflammation." 19th Annual Health Disparities Research Symposium. Loma Linda University School of Medicine, Loma Linda, California. 2019

Cedeno L, Chum P, Buchholz J, Behringer E, "Genetic expression of endothelium mitochondrial calcium ion channels and antioxidant enzymes of the brain during Alzheimer's disease." 19th Annual Health Disparities Research Symposium. Loma Linda University School of Medicine, Loma Linda, California. 2019

Chow W, Solak S, Adeoye O, Mata-Greenwood E, "Role of maternal obesity on fetal endothelial cell-response to dexamethasone (steroid) in a sheep model." 19th Annual Health Disparities Research Symposium. Loma Linda University School of Medicine, Loma Linda, California. 2019

Do C, Carreon D, Doan C, Franco N, Pearce WJ, "Optimization of Confocal Colocalization of Contractile Proteins in Cerebral Arteries." 19th Annual Health Disparities Research Symposium. Loma Linda University School of Medicine, Loma Linda, California. 2019

Hakim MA, Behringer EJ, "Alzheimer's Disease as a Condition of Accelerated Cerebrovascular Aging." 22nd Annual Basic Science Research Symposium. 2019

Hillman T, Siebold L, Abdala J, Wilson CG, "miRNA Regulation in Early Inflammatory Signals Induced by Hypoxic Ischemia Encephalopathy in Neonates." 22nd Annual Basic Science Research Symposium. 2019

Hu XQ, Dasgupta C, Song R, Romero M, Wilson SM, Zhang L, "Long-term High-altitude Hypoxia Suppresses Pregnancy-induced Upregulation of Ca²⁺ Sparks In Ovine Uterine Arteries." 66th Annual Meeting of the Society for Reproductive Investigation (SRI). Paris, France. 2019

Jullienne A, Obenaus A, Lee JB, Behringer E; for the MODEL-AD Consortium. "Lifespan magnetic resonance imaging of novel mouse models of Alzheimer's disease: phenotyping and comparisons to healthy aging." Society for Neuroscience. Chicago, USA. 2019

Licero Campbell J, Illan MS, Cordero K, Duran A, Figueroa J, De Leon M, "Effects of fabp4 inhibition on functional and autonomic recovery in rats following spinal cord injury." 19th Annual Health Disparities Research Symposium. Loma Linda University School of Medicine, Loma Linda, California. 2019

Martinez S, & Díaz Osterman C, & Chen X, Wang C, Zhang L, Casiano C, "Abstract LB-260: Role of the glucocorticoid receptor/beta-catenin interaction in prostate cancer stem cell survival and chemoresistance." LB-260. 10.1158/1538-7445.SABCS18-LB-260. 2019

Mayagoitia K, Shin S, Mitchell I, Black R, Soriano S, "Cholesterol metabolite 27-hydroxycholesterol and its effects on inflammation and memory." 19th Annual Health Disparities Research Symposium. Loma Linda University School of Medicine, Loma Linda, California. 2019

Ortiz-Hernandez G, Sanchez-Hernandez E, Martinez S, Mahler M, Casiano C, "Anti-DFS Autoantibodies as Probes to Characterize the DFS70/LEDGFp75 Interactome." 22nd Annual Basic Science Research Symposium. 2019

Oyefeso F, Vasquez ME, Pecaut MJ, "Brain Organoids: Developing a Model to Assess Region-specific Changes in the Microenvironment of the Brain following Exposure to Ionizing Radiation." 22nd Annual Basic Science Research Symposium. Loma Linda University, Loma Linda, CA. 2019

Pearce WJ, Adeoye OO, "Sympathetic Perivascular Nerves Facilitate Long-Term Hypoxic Remodeling Through Smooth Muscle Phenotype Shifts in Fetal Lamb Cerebral Arteries." 66th Annual Meeting of the Society for Reproductive Investigation (SRI). Paris, France. 2019

Reid C, Romero M, Dobyms A, Hessinger DA, Puglisi JL, Wilson CG, Zhang L, Wilson SM, "Long Term Hypoxia Negatively Influences Ca²⁺ Signaling in Basilar Arterial Myocytes of Fetal and Adult Sheep." *Faseb J* 551.7: 2019

Sanchez-Hernandez E, Pagan-Ramos M, Duran AM, Casiano C, Almaguel F, "PSMA is Differentially Expressed in a Racially Diverse Prostate Cancer Cell Panel." 22nd Annual Basic Science Research Symposium. 2019

Serrano JP, Sanchez N, Kirsch W, "Copper deposit comparisons between Alzheimer's disease severity in various brain regions." 19th Annual Health Disparities Research Symposium. Loma Linda University School of Medicine, Loma Linda, California. 2019

Shin S, Ebling J, Kirby M, Yellon S, "Understanding the systemic inflammatory drive of cervix ripening and preterm birth." 19th Annual Health Disparities Research Symposium. Loma Linda University School of Medicine, Loma Linda, California. 2019

Siebold L, Ashwal S, Bartnik-Olson B, Johnson R, Tone B, Figueroa J, Vega-Torres J, Wilson CG, "Synthetic Corticotropin Therapy Reduces Microglial Activation in a Rodent TBI Model." *Faseb J* 557.12: 2019

Song R, Hu X, Romero M, Holguin MA, Wilson SM, Zhang L, "RyRs-BKCa Channel Coupling Plays a Key Role in Pregnancy-Induced Reduction of Uterine Arterial Myogenic Tone." 66th Annual Meeting of the Society for Reproductive Investigation (SRI). Paris, France. 2019

Stoll S, Ma B, Behringer EJ, Qiu H, "The valosin-containing protein resists pathological cardiac calcium overload via inhibiting mitochondrial calcium uptake." American Heart Association Council on Basic Cardiovascular Sciences. Boston, USA. 2019

Talbot K, "A new hope for treating Alzheimer's disease with novel antidiabetics". VA Puget Sound Health Care System, R&D Seminar Series. Seattle, WA. 2019

Tantiga K, Murray S, Romero M, Yellon S, Zhang L, Blood A, Wilson SM, "Collagen crosslinking and ventilation of the fetal sheep lung." 19th Annual Health Disparities Research Symposium. Loma Linda University School of Medicine, Loma Linda, California. 2019

Yellon SM, Kirby MA, "Progesterone Blocks Cervix Ripening and Birth at Term." 66th Annual Meeting of the Society for Reproductive Investigation (SRI). Paris, France. 2019

2019 Publications

Badaut J, Adami A, Huang L, Obenaus A, "Noninvasive magnetic resonance imaging stratifies injury severity in a rodent model of male juvenile traumatic brain injury." *J Neurosci Res*. 2019. PMID: 30916808

Clément T, Lee JB, Ichkova A, Rodriguez-Grande B, Fournier ML, Aussudre J, Ogier M, Haddad E, Canini F, Koehl M, Abrous DN, Obenaus A, Badaut J, "Juvenile mild traumatic brain injury elicits distinct spatiotemporal astrocyte responses." *Glia*. 2019 Oct 31. doi: 10.1002/glia.23736. [Epub ahead of print]

Faustino J, Chip S, Derugin N, Jullienne A, Hamer M, Haddad E, Butovsky O, Obenaus A, Vexler ZS, "CX3CR1-CCR2-dependent monocyte-microglial signaling modulates neurovascular leakage and acute injury in a mouse model of childhood stroke." *J Cereb Blood Flow Metab*. 2019. PMID: 30628839

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." *American journal of physiology Regulatory, integrative and comparative physiology*, 2019. PMID: 31577477. PMCID: Pending

Hu XQ, Song R, Romero M, Dasgupta C, Huang X, Holguin MA, Williams V, Xiao D, Wilson SM, Zhang L, "Pregnancy Increases Ca²⁺ Sparks/Spontaneous Transient Outward Currents and Reduces Uterine Arterial Myogenic Tone." *Hypertension*. 2019. PMID: 30661479

Ichkova A, Fukuda AM, Nishiyama N, Paris G, Obenaus A, Badaut J, "Small Interference RNA Targeting Connexin-43 Improves Motor Function and Limits Astroglia After Juvenile Traumatic Brain Injury." *ASN Neuro*. 2019. PMID: 31194577

Jullienne A, Hamer M, Haddad E, Morita A, Gifford P, Hartman R, Pearce WJ, Tang J, Zhang JH, Obenaus A, "Acute intranasal osteopontin treatment in male rats following TBI increases the number of activated microglia but does not alter lesion characteristics." *J Neurosci Res*. 2019. PMID: 30892744

Ma Q, Dasgupta C, Li Y, Huang L, Zhang L, "MicroRNA-210 Downregulates ISCU and Induces Mitochondrial Dysfunction and Neuronal Death in Neonatal Hypoxic-Ischemic Brain Injury." *Mol Neurobiol*. 2019. PMID: 30656514

Moretta D, Papamatheakis DG, Morris DP, Giri PC, Blood Q, Murray S, Ramzy M, Romero M, Vemulakonda S, Lauw S, Longo LD, Zhang L, Wilson SM, "Long-Term High-Altitude Hypoxia and Alpha Adrenoceptor-Dependent Pulmonary Arterial Contractions in Fetal and Adult Sheep." *Front Physiol*. 2019. PMID: 31555139.

Sheller-Miller S, Trivedi J, Yellon SM, Menon R, "Exosomes Cause Preterm Birth in Mice: Evidence for Paracrine Signaling in Pregnancy." *Sci Rep*. 2019. PMID: 30679631

Shin SD, Shin A, Mayagoitia K, Siebold L, Rubini M, Wilson CG, Bellinger DL, Soriano S, "Loss of amyloid precursor protein exacerbates early inflammation in Niemann-Pick disease type C." *J Neuroinflammation*. 2019. PMID: 31847862.

Heurman AC, Hollinger TT, Menon R, Mesiano S, Yellon SM, "Cervix Stromal Cells and the Progesterone Receptor A Isoform Mediate Effects of Progesterone for Parturition Remodeling." *Reprod Sci*. 2019. PMID: 30654718

Yellon SM, Greaves E, Heurman AC, Dobyns AE, Norman JE, "Effects of macrophage depletion on characteristics of cervix remodeling and pregnancy in CD11b-dtr mice." *Biol Reprod*. 2019. PMID: 30629144

Nold C, Stone J, O'Hara K, Davis P, Kiveliyk V, Blanchard V, Yellon SM, Vella AT, "Block of Granulocyte-Macrophage Colony-Stimulating Factor Prevents Inflammation-Induced Preterm Birth in a Mouse Model for Parturition." *Reprod Sci*. 2019. PMID: 30296925

Nold C, Jensen T, O'Hara K, Stone J, Yellon SM, Vella AT, "Replens prevents preterm birth by decreasing type I interferon strengthening the cervical epithelial barrier." *Am J Reprod Immunol*. 2019. PMID: 31549469.

Williams PA, Bellinger DL, Wilson CG, "Changes in the Morphology of Hypoglossal Motor Neurons in the Brainstem of Developing Rats." *Anat Rec (Hoboken)*. 2019. PMID: 30312533

Williams PA, Dalton C, Wilson CG, "Modeling hypoglossal motoneurons in the developing rat." *Respir Physiol Neurobiol*. 2019. PMID: 30056243