

Erin Elizabeth Kaiser, PhD-c

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A: Athens, Georgia

EDUCATION

PhD, Neuroscience, Regenerative Bioscience Center, University of Georgia
Expected Graduation: December 2019

B.S.A, Animal Science and Dairy Science, University of Georgia, December 2013
Production and Management with Veterinary Emphasis

RELEVANT EXPERIENCE

Research Assistant, University of Georgia, Athens, GA, May 2015 – Present

- Conducted multi-institutional collaborative research with Emory, Medical College of Georgia at Augusta University, and Piedmont Healthcare
- Conceptualized, implemented, and analyzed research endeavors funded by the National Institute of Health, Department of Defense, ArunA biomedical, and the University of Georgia Research Fund
- Performed multiple stem cell transplantation surgeries post-stroke
- Executed magnetic resonance protocols for therapeutic utility assessments
- Mentored 200+ graduate and undergraduate researchers resulting in multiple presentations and abstracts at local, regional, and international conferences
- Developed detailed animal use protocols while complying with Institutional Animal Care and Use Committee regulations and the National Institute of Health Guide for the Care and Use of Laboratory Animals
- Organized and maintained a biosafety level-2 human stem cell culture laboratory including reagent and equipment ordering, maintenance of cell culture incubator and fume hoods, and coordinating biohazard disposal to maintain strict biosafety protocols

Surgical Assistant and Veterinary Technician, Peterson and Smith Equine Hospital, Ocala, FL, February 2012 – May 2015

- Reported directly to hospital partners and associates to assist in a variety of surgeries including arthroscopies, laryngoplasties, epiglottic entrapments, laparoscopic ovariectomies and castrations, enucleations, tumor and uterine cyst removals, neurectomies
- Responded to emergency medical cases including dystocias; caesarean sections; gastrointestinal resections; nephrosplenic space ablations; and castration complications
- Assisted in appointments including neurological evaluations, endoscopies, lameness exams, joint injections, and ocular exams
- Performed laboratory diagnostic tests including but not limited to CBC, PCV/TP; blood gas; lactate; glucose; calcium; fecal egg counts
- Placed intravenous catheters to administer emergency and post-operative medications
- Collaborated with veterinarians to formulate treatment plans

DOCTORAL RESEARCH

Stroke, traumatic brain injury (TBI), and vascular cognitive impairment (VCI) are major causes of death and long-term disability worldwide. Despite the vast repercussions of these neural injuries there is currently no effective treatment to repair and replace damaged brain tissue. Due to the anatomical and physiological similarities between pigs and humans compared to traditional murine models, we developed and characterized pig stroke, TBI, and VCI models in order to test prospective treatments and therapeutics. My dissertation focuses

on testing the neuroprotective efficacy of neural stem cell derived extracellular vesicles (NSCEVs) and Tanshinone IIa loaded nanoparticles (Tan-IIa NPs) as well as regenerative capabilities of induced pluripotent stem cell-derived neural stem cells (iNSCs) in our pig stroke models. We show that NSCEVs, Tan-IIa NPs, and iNSCs improve tissue recovery through potentially preservative and regenerative mechanisms. With these improvements in stroke, NSCEVs, Tan-IIa NPs, and iNSCs represent a highly practical and translatable therapy that may change the current therapeutic paradigm of stroke in humans.

WRITTEN AND ORAL COMPOSITIONS

F31 National Institute of Health Fellowship Grant, May 2018

Characterization of NSC EVs on 1) modulating the inflammatory secondary injury cascade via M1 and M2 inflammatory phenotypes and, 2) enhancing iNSC survivability, differentiation, and integration therefore lessening cellular and tissue-level loss and consequent neurological deficits in a porcine model of ischemic stroke.

LABORATORY SKILLS

Human cell culture including hNSCs and iPSCs. Media Preparation, RT-PCR, Gel Electrophoresis, qRT-PCR, Immunohistochemistry, Immunocytochemistry, Flow Cytometry, In Vitro Fluorescent Imaging, RNA/DNA Isolation/Purification/Quantification, Lentiviral Transductions, Piggybac™ Transposon Vector Transfections, Laboratory Animal Handling, Animal Surgery utilizing Sterile Technique to transplant intracranial iNSCs, Suturing, Tissue Handling/Processing, Endotracheal Intubation, Anesthesia Induction and Monitoring, MRI Monitoring, MRI Protocol Development, MRI Execution, Emergency and Post-Operative Care

EQUIPMENT

GE 3T Magnetic Resonance Imaging, Continuous-Flow Anesthesia Machine, Cortical Impactor, Microinjector, Centrifuge, Autoclave, Laminar Flow Hoods, Water Bath, Liquid Nitrogen Dewar, Micropipettes, Thermocycler, Flex Station Plate Reader, DSU Confocal Microscope, Phase Contrast Microscope, Flow Cytometer

RELEVANT GRADUATE COURSEWORK

Experimental Methods in Biotechnology, Advanced Developmental Biology, Functional Neuroanatomy, Neurophysiology, Statistical Methods I, Statistical Methods II, Current Topics in Regenerative Medicine, Current Topics in Stem Cells

COMPUTATIONAL SKILLS

Microsoft Office, Statistical Analysis System (SAS), Sigmaplot, GraphPad Prism, Adobe Photoshop, ImagePro, ImageJ, QCapture, Softmax Pro, ExpressionSuite, MetaboAnalyst, Osirix, Slicer, Trackvis, Diffusion ToolKit, Gait4Dog, Ethovision

PUBLICATIONS

Robin L. Webb[§], **Erin E. Kaiser[§]**, Brian J. Jurgielewicz, Samantha E. Spellicy, Shelley L. Scoville, Tyler A. Thompson, Raymond L. Swetenburg, David C. Hess, Franklin D. West, Steven L. Stice. “*Human neural stem cell extracellular vesicles improve recovery in a porcine model of ischemic stroke.*” *Stroke*, April 2018.

Robin L. Webb[§], **Erin E. Kaiser[§]**, Shelley L. Scoville, Tyler A. Thompson, Sumbul Fatima, Chirayukumar Pandya, Karishma Sriram, Raymond L. Swetenburg, Kumar Vaibhav, Ali S. Arbab, Babak Baban, Krishnan M. Dhandapani, David C. Hess, M. N.

Hoda, Steven L. Stice. “*Human neural stem cell extracellular vesicles improve tissue and functional recovery in the murine thromboembolic stroke model.*” Trans. Stroke Res. December 2017.

Erin E. Kaiser[§], Elizabeth S. Waters[§], Madison M. Fagan, Kelly M. Scheulin, Simon R. Platt, Julie Jeon, Xi Fang, Holly A. Kinder, Soo K. Shin, Kylee J. Duberstein, Hea J. Park, Franklin D. West. “*Acute characterization of tissue and functional deficits in a clinically translatable pig model of ischemic stroke.*” J Cere Blood Flow Metab. Under review.

Samantha E. Spellicy, **Erin E. Kaiser**, Michael M. Bowler, Brian J. Jurgielewicz, Robin L. Webb, Franklin D. West, Steven L. Stice. “*Neural stem cell extracellular vesicles disrupt midline shift predictive outcomes in porcine ischemic stroke model.*” Nat. Commun. Under review.

Julie H. Jeon, Jeferson Lourenco, **Erin E. Kaiser**, Elizabeth S. Waters, Kelly M. Scheulin, Madison M. Fagan, Xi Fang, Holly A. Kinder, Simon R. Platt, Kylee J. Duberstein, Michael Rothrock, Jr, Todd Callaway, Franklin D. West, Hea J. Park. “*Dynamic Changes of Gut Microbiome and Immune Response During the Acute Stage of Stroke in a Pig Model.*” Curr. Dev. Nutr. Submitted.

Erin E. Kaiser, Holly A. Kinder, Franklin D. West. “*Clinically translational challenges: an assessment of current gyrencephalic animal models of ischemic stroke.*” Neural Regen. Res., In progress.

Erin E. Kaiser[§], Elizabeth S. Waters[§], Madison M. Fagan, Kelly M. Scheulin, Simon R. Platt, Julie Jeon, Xi Fang, Holly A. Kinder, Soo K. Shin, Kylee J. Duberstein, Hea J. Park, Franklin D. West. “*Acute therapeutic potential of Tanshinone-IIa Nanoparticles in a clinically relevant pig model of ischemic stroke.*” J Cere Blood Flow Metab. In progress.

§ Authors contributed equally to this work

ABSTRACTS

Erin E. Kaiser, Brian J. Jurgielewicz, Samantha E. Spellicy, Robin L. Webb, Simon R. Platt, Steve L. Stice, and Franklin D. West. *Human Neural Stem Cell Extracellular Vesicles Promote Magnetic Resonance Imaging-Based Recovery in a Porcine Model of Ischemic Stroke.* Regenerative Bioscience Center Symposium. 2018 April: Athens, GA.

Erin E. Kaiser, Brian J. Jurgielewicz, Samantha E. Spellicy, Robin L. Webb, Simon R. Platt, Steve L. Stice, and Franklin D. West. *Human Neural Stem Cell Extracellular Vesicles Promote Acute and Chronic Recovery in a Porcine Model of Ischemic Stroke.* Regenerative Medicine Workshop. 2018 March: Hilton Head, SC.

Erin E. Kaiser, Brian J. Jurgielewicz, Samantha E. Spellicy, Robin L. Webb, Simon R. Platt, Steve L. Stice, and Franklin D. West. *Human Neural Stem Cell Extracellular Vesicles Promote Acute and Chronic Recovery in a Porcine Model of Ischemic Stroke.* Georgia Clinical and Translational Science Alliance. 2018 February: Braselton, GA.

Erin E. Kaiser, Brian J. Jurgielewicz, Samantha E. Spellicy, Robin L. Webb, Simon R. Platt, Steve L. Stice, and Franklin D. West. *Neural Stem Cell Derived Exosome Treatment Promotes Recovery in a Porcine Model of Ischemic Stroke.* Swine in Biomedical Research. 2017 September: Baltimore, MD.

Erin E. Kaiser, Brian J. Jurgielewicz, Samantha E. Spellicy, Robin L. Webb, Simon R. Platt, Steve L. Stice, and Franklin D. West. *Neural Stem Cell Derived Exosome Treatment Promotes Recovery in a Porcine Model of Ischemic Stroke*. Southern Translational Education and Research Conference. 2017 September: Augusta, GA.

Erin E. Kaiser, Brian J. Jurgielewicz, Samantha E. Spellicy, Robin L. Webb, Simon R. Platt, Steve L. Stice, and Franklin D. West. *Neural Stem Cell Derived Exosome Treatment Promotes Recovery in a Porcine Model of Ischemic Stroke*. Graduate Students and Postdocs in Science Research Day. 2017 April: Athens, GA.

Erin E. Kaiser, Kylee Jo Duberstein, Simon R. Platt, Vivian W. Lau, Emily W. Baker, Harrison E. Grace, Elizabeth W. Howerth, Shannon P. Holmes, Liya Wang, Steve L. Stice, Hui Mao, and Franklin D. West. *Quantitative Gait Analysis Demonstrates Significant Changes in Motor Function Post-Ischemic Stroke and Simulated Intraparenchymal Therapeutic Delivery in a Porcine Model*. International Stroke Conference. 2016 February: Los Angeles, CA.

Erin E. Kaiser, Kylee Jo Duberstein, Simon R. Platt, Vivian W. Lau, Emily W. Baker, Harrison E. Grace, Elizabeth W. Howerth, Shannon P. Holmes, Liya Wang, Steve L. Stice, Hui Mao, and Franklin D. West. *Quantitative Gait Analysis Demonstrates Significant Changes in Motor Function Post-Ischemic Stroke in a Porcine Model*. World Stem Cell Summit. 2015 December: Atlanta, GA.

Julie H. Jeon, Jeferson Lourencob, **Erin E. Kaiser**, Elizabeth S. Waters, Kelly M. Scheulin, Madison M. Fagan, Xi Fang, Holly A. Kinder, Simon R. Platt, Kylee Jo J Duberstein, Todd Callaway, Franklin D. West, and Hea Jin Park. *Dynamic changes of gut microbiome and immune response during the acute stage of stroke in a pig model*. Nutrition 2019 Conference. 2019 June: Baltimore, MD.

Samantha E. Spellicy, **Erin E. Kaiser**, Michael Bowler. Webb, Brian J. Jurgielewicz, Robin L. Webb, Franklin D. West, and Steven L Stice. *Midline shift predicts functional outcomes in a porcine ischemic stroke model*. Regenerative Bioscience Center Fellows Symposium. 2019 April: Athens, GA.

Anna Zukowski, Madison M. Fagan, **Erin E. Kaiser***, Elizabeth S. Waters, Holly A. Kinder, and Franklin D. West. *Ischemic stroke leads to tissue damage and subsequent impairments in gait, behavior, and functional recovery in a biomedical porcine model*. Regenerative Bioscience Center Fellows Symposium. 2019 April: Athens, GA.

Mackenzie Synder, Kelly M. Scheulin, Madison M. Fagan, **Erin E. Kaiser***, Elizabeth S. Waters, Xueyuan Yang, Anil Kumar, Julie H. Jeon, Xi Fang, Holly A. Kinder, Simon R. Platt, Hea Jin Park, Jin Xie, Kylee Jo Duberstein, and Franklin D. West. *Analysis of Magnetic Resonance Imaging and Spatiotemporal Gait Parameters in Response to Tanshinone-IIA Loaded Nanoparticle Treatment in a Pig Model of Ischemic Stroke demonstrates increased diffusivity and white matter integrity at 24hrPS and improved motor function at 2dPS*. Regenerative Bioscience Center Fellows Symposium. 2019 April: Athens, GA.

Tyler Burnette, **Erin E. Kaiser***, Elizabeth S. Waters, Holly A. Kinder, and Franklin D. West. *Tanshinone-IIa-Loaded Nanoparticles Reduce Midline Shift and Lesion Volume and Improve Cerebral Diffusivity in a Pig Ischemic Stroke Model*. College of Agricultural and Environmental Sciences Undergraduate Research Symposium. 2019 April: Athens, GA.

Sowmya Radhakrishnan, Kelly M. Scheulin, Madison M. Fagan, **Erin E. Kaiser**, Elizabeth S. Waters, Xueyuan Yang, Anil Kumar, Julie H. Jeon, Xi Fang, Holly A. Kinder, Simon R. Platt, Hea Jin Park, Jin Xie, Kylee Jo Duberstein, and Franklin D. West. *Analysis of Magnetic Resonance Imaging and Spatiotemporal Gait Parameters in Response to Tanshinone-IIa Loaded Nanoparticle Treatment in a Pig Model of Ischemic Stroke*. College of Agricultural and Environmental Sciences Undergraduate Research Symposium. 2019 April: Athens, GA.

Madison M. Fagan, **Erin E. Kaiser**, Elizabeth S. Waters, Xueyuan Yang, Anil Kumar, Kelly M. Scheulin, Julie H. Jeon, Xi Fang, Holly A. Kinder, Simon R. Platt, Hea Jin Park, Jin Xie, Kylee Jo Duberstein, and Franklin D. West. *Assessment of Spatiotemporal Changes in Response to Tanshinone-IIa Nanoparticle Administration in a Pig Model of Ischemic Stroke*. Regenerative Medicine Workshop. 2019 March: Hilton Head, SC.

Samantha E. Spellicy, **Erin E. Kaiser**, Michael M. Bowler, Brian J. Jurgielewicz, Robin L. Webb, Franklin D. West, Steven L. Stice. Determining translational magnetic resonance imaging parameters predictive of therapeutic efficacy in a porcine ischemic stroke model. Abstract accepted and research presented at the Regenerative Medicine Workshop. 2019 March: Charleston, SC.

Mariafernanda Alcalde, Kelly M. Scheulin, Madison M. Fagan, **Erin E. Kaiser***, Elizabeth S. Waters, Xueyuan Yang, Anil Kumar, Julie H. Jeon, Xi Fang, Holly A. Kinder, Simon R. Platt, Hea Jin Park, Jin Xie, Kylee J. Duberstein, Franklin D. West. *Analysis of Magnetic Resonance Imaging and Spatiotemporal Gait Parameters in Response to Tanshinone-IIA Loaded Nanoparticle Treatment in a Pig Model of Ischemic Stroke*. Center for Undergraduate Research Opportunities Symposium. 2019 March: Athens, GA.

Wahenoor Anand, **Erin E. Kaiser***, Elizabeth S. Waters, Holly A. Kinder, Simon R. Platt, and Franklin D. West. *Tanshinone-IIa Nanoparticle Administration in a Porcine Model of Ischemic Stroke Demonstrates Reduced Hemispheric Swelling, Lesion Volume, and White Matter Damage*. Center for Undergraduate Research Opportunities Symposium. 2019 March: Athens, GA.

Samantha E. Spellicy, **Erin E. Kaiser**, Michael M. Bowler, Brian J. Jurgielewicz, Robin L. Webb, Franklin D. West, Steven L. Stice. *Determining translation magnetic resonance imaging parameters predictive of therapeutic efficacy in a porcine ischemic stroke model*. Society for Neuroscience Meeting. 2018 November: San Diego, CA.

Lily G. Francis, **Erin E. Kaiser***, Brian J. Jurgielewicz, Samantha E. Spellicy, Robin L. Webb, Simon R. Platt, Steve L. Stice, and Franklin D. West. *Neural Stem Cell Derived Extracellular Vesicles Promote Magnetic Resonance Imaging-Based Recovery in a Porcine Model of Ischemic Stroke*. Emory STEM Research and Career Symposium. 2018 October: Atlanta, GA.

Robin L. Webb, **Erin E. Kaiser**, Brian J. Jurgielewicz, Samantha Spellicy, Shelley L. Scoville, Tyler A. Thompson, Raymond L. Swetenburg, David C. Hess, Franklin D. West, and Steve L. Stice. *Human neural stem cell extracellular vesicles improve recovery in a porcine model of ischemic stroke*. International Society for Extracellular Vesicles Conference. 2018 May: Barcelona, Spain.

Samantha E. Spellicy, **Erin E. Kaiser**, Michael Bowler, Brian J. Jurgielewicz, Robin L. Webb,

Franklin D. West, Steve L. Stice. *The role of neural stem cell derived extracellular vesicles as a therapeutic in a porcine middle cerebral artery occlusion model of stroke*. American Physician Scientist Association Annual Meeting. 2018 April: Chicago, IL.

Samantha E. Spellicy, **Erin E. Kaiser**, Michael Bowler, Brian J. Jurgielewicz, Robin L. Webb, Franklin D. West, Steve L. Stice. *Multiparametric analysis of magnetic resonance structural imaging and functional parameters leads to the identification of key predictive and translational parameters in an ischemic stroke porcine model*. Graduate Students and Post-Docs in Science Research Day. 2018 April: Athens, GA.

Elizabeth S. Waters, **Erin E. Kaiser**, Holly A. Kinder, Simon R. Platt, Silun Wang, David C. Hess, Hui Mao and Franklin D. West. *A Novel Porcine Model of Vascular Cognitive Impairment Demonstrates Changes in Cerebral Blood Flow, White Matter Integrity, and Cognitive Function*. Regenerative Bioscience Center Fellows Symposium. 2018 April: Athens, GA.

Zachary T. Jones, **Erin E. Kaiser***, Elizabeth S. Waters, Kelly M. Scheulin, Madelaine N. Wendzik, Holly A. Kinder, Simon R. Platt, and Franklin D. West. *Magnetic Resonance Imaging T2 Weighted Sequences Demonstrate Acute Changes in Cerebral Hemisphere, Ventricle, and Lesion Volumes in a Pig Model of Ischemic Stroke*. Regenerative Bioscience Center Fellows Symposium. 2018 April: Athens, GA.

Neil K. Doshi, **Erin E. Kaiser***, Elizabeth S. Waters, Kelly M. Scheulin, Madelaine N. Wendzik, Holly A. Kinder, Simon R. Platt, and Franklin D. West. *Magnetic Resonance Imaging Assessment in a Porcine Model of Ischemic Stroke Demonstrates Reduced Diffusivity and White Matter Damage*. Regenerative Bioscience Center Fellows Symposium. 2018 April: Athens, GA.

Zachary T. Jones, **Erin E. Kaiser***, Elizabeth S. Waters, Kelly M. Scheulin, Madelaine N. Wendzik, Holly A. Kinder, Simon R. Platt, and Franklin D. West. *Magnetic Resonance Imaging T2 Weighted Sequences Demonstrate Acute Changes in Cerebral Hemisphere, Ventricle, and Lesion Volumes in a Pig Model of Ischemic Stroke*. College of Agricultural and Environmental Sciences Undergraduate Research Symposium. 2018 April: Athens, GA.

Zachary T. Jones, **Erin E. Kaiser***, Elizabeth S. Waters, Kelly M. Scheulin, Madelaine N. Wendzik, Holly A. Kinder, Simon R. Platt, and Franklin D. West. *Magnetic Resonance Imaging T2 Weighted Sequences Demonstrate Acute Changes in Cerebral Hemisphere, Ventricle, and Lesion Volumes in a Pig Model of Ischemic Stroke*. Center for Undergraduate Research Opportunities Symposium. 2018 April: Athens, GA.

Neil K. Doshi, **Erin E. Kaiser***, Elizabeth S. Waters, Kelly M. Scheulin, Madelaine N. Wendzik, Holly A. Kinder, Simon R. Platt, and Franklin D. West. *Magnetic Resonance Imaging Assessment in a Porcine Model of Ischemic Stroke Demonstrates Reduced Diffusivity and White Matter Damage*. Center for Undergraduate Research Opportunities Symposium. 2018 April: Athens, GA.

Caroline A. Temple, **Erin E. Kaiser***, Elizabeth S. Waters, Holly A. Kinder, Simon R. Platt, Silun Wang, David C. Hess, Hui Mao and Franklin D. West. *A Novel Porcine Model of Vascular Cognitive Impairment Demonstrates Changes in Cerebral Blood Flow, White Matter Integrity, and Cognitive Function*. Center for Undergraduate Research Opportunities Symposium. 2018 April: Athens, GA.

Samantha E. Spellicy, Brian J. Jurgielewicz, **Erin E. Kaiser**, Michael Bowler, Robin L. Webb, Franklin D. West, Steve L. Stice. *Multiparametric analysis of structural and functional correlations in a porcine MCAO model of stroke reveals divergent trends between treatment groups over time*. Regenerative Medicine Workshop. 2018 March: Hilton Head, SC.

Emily W. Baker, Robin L. Webb, **Erin E. Kaiser**, Samantha E. Spellicy, Brian J. Jurgielewicz, Shelley L. Scoville, Tyler A. Thompson, Sumbul Fatima, Chirayukumar Pandya, Karishma Sriram, Raymond L. Swetenburg, Ali S. Arbab, Babak Baban, Krishnan M. Dhandapani, David C. Hess, M.N. Hoda, Franklin D. West, and Steven L. Stice. *Human Neural Stem Cell Extracellular Vesicles Improve Tissue and Functional Recovery in Murine and Porcine Stroke Models*. International Stroke Conference. 2018 January: Los Angeles, CA.

Samantha E. Spellicy, Brian J. Jurgielewicz, **Erin E. Kaiser**, Robin L. Webb, Michael Bowler, Holly A. Kinder, Simon R. Platt, Franklin D. West, Steven L. Stice. *Neural Stem Cell-Derived Extracellular Vesicles as a Therapeutic in a MCAO Porcine Stroke Model*. Society for Neuroscience Conference. 2017 November: Washington D.C.

Lily G. Francis, **Erin E. Kaiser***, Madelaine N. Wendzik, Simon R. Platt, Silun Wang, David C. Hess, Hui Mao, and Franklin D. West. *A Novel Porcine Model of Vascular Cognitive Impairment Demonstrates Changes in Cerebral Blood Flow, White Matter Integrity, and Cognitive Function*. Emory STEM Research and Career Symposium. 2017 October: Atlanta, GA.

Brian J. Jurgielewicz, **Erin E. Kaiser**, Samantha E. Spellicy, Robin L. Webb, Simon R. Platt, Franklin D. West, Steven L. Stice. *Extracellular Vesicle Treatment Promotes Recovery After Ischemic Stroke*. Georgia Bio Innovation Summit. 2017 October: Atlanta, GA.

Samantha E. Spellicy, Brian J. Jurgielewicz, **Erin E. Kaiser**, Robin L. Webb, Michael Bowler, Holly A. Kinder, Simon R. Platt, Franklin D. West, Steven L. Stice. *Neural Stem Cell-Derived Extracellular Vesicles as a Potential Therapeutic in an MCAO Porcine Model of Stroke*. Southern Translational Education and Research Conference. 2017 September: Augusta, GA.

Samantha E. Spellicy, Brian J. Jurgielewicz, **Erin E. Kaiser**, Robin L. Webb, Michael Bowler, Holly A. Kinder, Simon R. Platt, Franklin D. West, Steven L. Stice. *Behavioral Improvements Following Neural Stem Cell Derived Exosome Therapy in a Porcine Model of Stroke*. Graduate Students and Postdocs in Science Research Day. 2017 April: Athens, GA.

Lily G. Francis, **Erin E. Kaiser***, Madelaine N. Wendzik, Simon R. Platt, Silun Wang, David C. Hess, Hui Mao, and Franklin D. West. *A Novel Porcine Model of Vascular Cognitive Impairment Demonstrates Changes in Cerebral Blood Flow and White Matter Tracts*. Regenerative Bioscience Center Fellows Symposium. 2017 April: Athens, GA.

Brian J. Jurgielewicz, **Erin E. Kaiser**, Samantha E. Spellicy, Robin L. Webb, Kylee Jo Duberstein, Simon R. Platt, Franklin D. West, Steven L. Stice. *NPEX™ treatment improves spatiotemporal gait parameters in a middle cerebral artery occlusion porcine stroke model*. Regenerative Bioscience Center Fellows Symposium. 2017 April: Athens, GA.

Kelly M. Scheulin, Anil Kumar, Madelaine N. Wendzik, Holly A. Kinder, Xueyuan Yang, **Erin E. Kaiser***, Emily W. Baker, Elizabeth S. Waters, Jen Xie and Franklin D. West. *Nanoparticles Transport of FDA-Approved Drugs Across the Blood Brain Barrier in a*

Porcine Stroke Model. Regenerative Bioscience Center Fellows Symposium. 2017 April: Athens, GA.

Samantha E. Spellicy, Brian J. Jurgielewicz, **Erin E. Kaiser**, Robin L. Webb, Michael Bowler, Holly A. Kinder, Simon R. Platt, Franklin D. West, Steven L. Stice. *Behavioral Improvements Following Neural Stem Cell Derived Exosome Therapy in a Porcine Model of Stroke*. Regenerative Bioscience Center Fellows Symposium. 2017 April: Athens, GA.

Lily G. Francis, **Erin E. Kaiser***, Madelaine N. Wendzik, Simon R. Platt, Silun Wang, David C. Hess, Hui Mao, and Franklin D. West. *A Novel Porcine Model of Vascular Cognitive Impairment Demonstrates Changes in Cerebral Blood Flow and White Matter Tracts*. Center for Undergraduate Research Opportunities Symposium. 2017 April: Athens, GA.

Richard D. Murray, **Erin E. Kaiser***, Holly A. Kinder, Simon R. Platt, Silun Wang, David C. Hess, Hui Mao, and Franklin D. West. *Novel object recognition: a promising approach to the comparative study of memory in porcine vascular cognitive impairment studies*. Center for Undergraduate Research Opportunities Symposium. 2017 April: Athens, GA.

Kelly M. Scheulin, Anil Kumar, Madelaine N. Wendzik, Holly A. Kinder, Xueyuan Yang, **Erin E. Kaiser***, Emily W. Baker, Elizabeth S. Waters, Jen Xie and Franklin D. West. *Nanoparticles Transport of FDA-Approved Drugs Across the Blood Brain Barrier in a Porcine Stroke Model*. Center for Undergraduate Research Opportunities Symposium. 2017 April: Athens, GA.

Brian J. Jurgielewicz, **Erin E. Kaiser**, Samantha E. Spellicy, Robin L. Webb, Simon R. Platt, Franklin D. West, Steven L. Stice. *Neural Stem Cell Derived Exosome (NPEX™) Treatment in a Porcine Stroke Model*. Integrated Research and Ideas Symposium. 2017 March: Athens, GA.

Brian J. Jurgielewicz, **Erin E. Kaiser**, Samantha E. Spellicy, Robin L. Webb, Kylee Jo Duberstein, Simon R. Platt, Franklin D. West, Steven L. Stice. *Quantitative gait analysis in a porcine stroke model assessing the effects of a stem cell therapy*. Regenerative Medicine Workshop. 2017 March: Hilton Head, SC.

Kimberly D. Haight, **Erin E. Kaiser***, Madelaine N. Wendzik, Simon R. Platt, Silun Wang, David C. Hess, Hui Mao, and Franklin D. West. *A Novel Porcine Model of Vascular Cognitive Impairment Demonstrates Changes in Cerebral Blood Flow, White Matter Tracts, Memory, and Motor Function*. Merit-NIH National Veterinary Scholar Program Symposium. 2016 July: Columbus, OH.

Madelaine N. Wendzik, **Erin E. Kaiser***, Simon R. Platt, Silun Wang, David C. Hess, Hui Mao, and Franklin D. West. *Magnetic Resonance Imaging Characterization of a Novel Porcine Model of Vascular Cognitive Impairment*. Center for Undergraduate Research Opportunities Summer Fellows Symposium. 2016 July: Athens, GA.

Kayla M. Hargrove, **Erin E. Kaiser***, Holly A. Kinder, and Franklin D. West. *Neurobehavioral Testing in a Novel Porcine Model of Vascular Cognitive Impairment*. Center for Undergraduate Research Opportunities Symposium. 2016 April: Athens, GA.

Kayla M. Hargrove, **Erin E. Kaiser***, Madelaine N. Wendzik, Simon R. Platt, Silun Wang, David C. Hess, Hui Mao, and Franklin D. West. *A Novel Porcine Model of Vascular Cognitive*

Impairment. College of Agricultural and Environmental Science Undergraduate Research Symposium. 2016 March: Athens, GA.

*Served as Graduate Student Mentor

AWARDS

Sowmya Radhakrishnan, **Erin E. Kaiser***, College of Agricultural and Environmental Sciences Undergraduate Research Fellowship, Poster Presentation 1st Place Award, Spring 2019

Erin E. Kaiser, Regenerative Bioscience Center Symposium Poster Presentation 1st Place Award, Spring 2018

Erin E. Kaiser, Regenerative Medicine Workshop Poster Presentation 2nd Place Award, Spring 2018

Erin E. Kaiser, Georgia CTSA Conference Outstanding Pre-Doctoral Poster Presentation 1st Place Award, Spring 2018

Zachary Jones, **Erin E. Kaiser***, College of Agricultural and Environmental Sciences Undergraduate Research Symposium Poster Presentation 3rd Place Award, Spring 2018

Tyler Burnette, **Erin E. Kaiser**, College of Agricultural and Environmental Sciences Undergraduate Research Fellowship Award, Fall 2018

Sowmya Radhakrishnan, **Erin E. Kaiser***, College of Agricultural and Environmental Sciences Undergraduate Research Fellowship Award, Fall 2018

Erin E. Kaiser, STaR Conference Travel Award, Fall 2017

*Served as Graduate Student Mentor

PROFESSIONAL AFFILIATIONS AND HONORS

Animal and Dairy Science Graduate Student Association, President, 2017-2019

American Heart Association, Professional Member, Stroke Council, 2015-2019

CONTRIBUTIONS IN OUTREACH

Research Collaboration Tour Guide, Contrast Consortium, Rotterdam University Medical School, Netherlands, October 2018

Georgia City-County Managers Tour Guide, Georgia City-County Management Association's Conference, October 2018