

### Past T35 Summer Research Fellowship Trainees

Trainee and year	Veterinary School	Research topic
Carolyn Grimes 2003	Purdue University	Are neurotrophins a potential therapy for demyelinating peripheral neuropathies?
Kevin Lewis 2003, 2004	University of Illinois	GABA <sub>A</sub> receptor subtype involvement in hypersynchronous thalamic oscillations
Christine (Wu) Kim 2003	U.C. Davis	Does social stress reduce neurogenesis in squirrel monkeys?
Sally Davis 2004	North Carolina State University	In vivo assay of recombinant murine CMV m157's NK cell modulatory function
Brielle (Hecht) Weldon 2004	Colorado State University	<i>Xenopus laevis</i> : A field study in Golden Gate Park
Lisa Hsuan 2004	U.C. Davis	Does pilocarpine-induced temporal lobe epilepsy cause a loss of GABAergic synapses in the rat dentate gyrus?
F. Salih Muhammad 2004	Tuskegee University	Developing a mouse model to study the effects of <i>H. pylori</i> cagA delivery into the gastric mucosa
Kimberly Rainwater 2004	Kansas State University	The effects of early life stress on novelty seeking in squirrel monkeys
Izumi Toyoda 2004	U.C. Davis	Cycloheximide does not block sprouting of granule cell axons in a model of temporal lobe epilepsy
Jessica Diaz 2005	Michigan State University	GFP-positive interneuron axon length increases in epileptic mice
Antwain Howard 2005	Tuskegee University	Cytomegalovirus RM247+ vs RM461 mutant using bioluminescent imaging to track footpad infections in FVB mice
Erin Howey 2005	Tuskegee University	Afferent axon populations in the spinal rootlets of macaques
Matthew Jones 2005	Colorado State University	Osteopontin expression in a murine intramedullary model of particle-induced inflammation
Rebecca (Kozitza) Holt 2005	U.C. Davis	Pharmacological evaluation of pentylene tetrazol induced cortical EEG oscillations in GABA(A) receptor knock-in mice
Alice Toriello 2005	Ohio State University	Microscopy and molecular biology: exploring the relationship between CagA and junctional adhesion molecule
Sarah Zika 2005	University of Tennessee	Comparative genomic analysis of Salmonella from Vietnamese typhoid fever patients
Ari Aycock 2006	Michigan State University	Decreased glial scarring allows promotion of neurogenesis in rats
Peter Castro 2006	U.C. Davis	Characterization of <i>Helicobacter pylori</i> in artificial systems
Donald Chung 2006	Colorado State University	Therapeutic targeting of Ire1 in solid and blood tumors
Elizabeth Ingram 2006	Western University	Does inhibiting calcineurin block axon sprouting in a model of epilepsy?
Melinda Lopez 2006	Colorado State University	Investigating the efficacy and toxicity of two tirapazamine analogs in a nude mouse model
Brent Salazar 2006	University of Illinois	Do growth factors affect osteoblast activity in a model of total joint replacement?
Paula Schaffer 2007	University of Tennessee	Immunohistochemical localization of mitochondria in the mouse: findings and future applications
Ryan McCally 2007	Washington State University	Effects of continuous infusion of ultra high molecular weight polyethylene particles on bone formation in vivo
Jaime Venezia 2007	Cornell University	Does osteopontin have a causal role in head and neck squamous cell carcinoma (HNSCC)?
Kenneth Wiggans 2007	U.C. Davis	A comparative toxicity study between the hypoxic tumor cytotoxin tirapazamine and a structural analog, SN30000, in a nude mouse model
Amanda Koehne 2007	U.C. Davis	Use of the hypoxia-activated DNA cross-linking agent PR-104 to target hypoxic tumor cells in human pancreatic tumor xenografts
Alicia Cawlfild 2007	North Carolina State University	Cationic lipid DNA/antigen complexes (CLDC), a novel adjuvant, is superior to alum for the induction of antibody to influenza A virus in mice

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Justin Uhl 2007	U.C. Davis	Do axons of inhibitory interneurons sprout in a model of temporal lobe epilepsy?
Anne Kurosawa 2008	Purdue University	Role of osteopontin in tumor growth and metastasis and radiation induction of galectin-1
Sarah Eiman 2008	Tuskegee University	Effects of PR-104 and fractionated irradiation on the anti-tumor effect of nitroreductase expressing <i>Clostridium sporogenes</i>
Nick Rancilio 2008	Michigan State University	Identification of immunotherapy targets for modulation of immune cells after radiation
Margaret Musser 2008	University of Illinois	Role of AXL in ovarian and breast cancer metastasis
Fernando Leyva 2008	Colorado State University	Where do seizures initiate in a rat model of temporal lobe epilepsy?
Kathleen Donovan 2009	Cornell University	A summer of small animal imaging and whole mouse sectioning
Felicia Lew 2009	Washington State University	Is axon reorganization epileptogenic?
David Smith 2009	Colorado State University	Trafficking of reporter mesenchymal stromal cells to the bone marrow cavity implanted with UHMWPE
Kelly Lin 2009	U.C. Davis	Sensitivity to sucrose reward in stress inoculated vs. non-inoculated squirrel monkeys
Lauren (Wedig) Salcido 2009	Tufts University	Irestatin, a novel compound, inhibits the IRE1-XBP1 signaling branch of the unfolded protein response
Jennifer Holloway 2009	Tuskegee University	Axonal reorganization after a dorsal root lesion in the macaque monkey
Daylene (Mills) Kenny 2009	Washington State University	Detecting Helicobacter pylori CagA delivery by nuclear localization of cell signaling proteins
Felicia Lew 2009, 2010	Washington State University	Is axon reorganization epileptogenic? Does rapamycin permanently inhibit aberrant neuronal rewiring?
Elle Glueckert 2009, 2010	Michigan State University	Adhesion molecules mediating migration of T-cells in Type-1 diabetes
Kelly Keating 2010	University of Minnesota	Influence of MCP-1 on systemic macrophage trafficking in a murine model of wear particle induced osteolysis
Caroline Piskun 2010	University of Wisconsin	Testing a novel therapy in a patient-derived orthotopic xenograft model of breast cancer
Dimaris Merced 2010	Tuskegee University	Do commercial enrichment devices reduce stereotypic digging in Mongolian Gerbils?
Tessa LeCuyer 2010	Washington State University	Identification of Radiation and Immunotherapy Combinations in the Treatment of Metastatic Disease
Christina Alarcón 2010	U.C. Davis	Investigating the histone demethylase JARID1B in ovarian cancer
Sylvia Lesnikowski 2010	Tufts University	Do inhibitory interneurons inactivate before seizure onset?
Naomi Ford 2010	U.C. Davis	Dendritic structure of cortical pyramidal neurons in epileptic C1q knock-out mice
Brittani Kirkendoll 2010	Tuskegee University	Live animal imaging of perinatal infection
Megan Haney 2011	Kansas State University	Is rapamycin anti-epileptogenic?
Kasen Riemersma 2011	University of Wisconsin	Do inhibitory interneurons inactivate before seizure onset?
Philip Ryan 2011	Michigan State University	Mast cell proteases MCPT4 and CPA3 play a central role in anaphylaxis
Amber Kerk 2011	Purdue University	Investigation of <i>in vivo</i> bladder permeability in <i>Schistosoma hematobium</i> -infected mice

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Kelsey Shaw 2011	Cornell University	Exploring the role of a known rhoptry-secreted protein in the biology of <i>Toxoplasma gondii</i>
Michael Rahe 2011	Iowa State University	Investigations of the role of autophagy in Dengue virus replication
Barbara Batke 2011	University of Illinois	Pre-osteoblast MC3T3-E1 Cells Systemically Recruited to Bone Defect and Enhance Bone Remodeling
Khalila Williams 2011	Tuskegee University	Engineered knottin peptides: Using fluorescence imaging to show the effect of radiation on U87MG glioblastoma cancer cells
Carol Lah 2011	U.C. Davis	Investigation of tumor bed effect using exogenous hypoxia markers
Lilian (Kim) Wong 2011, 2012	U.C. Davis	Are epileptic California Sea Lions good models of human epilepsy?  Size matters: evaluating the effects of weight on post-shipping aggression in three strains of mice
Christopher Cheleuitte-Nieves 2012	Cornell University	Stress habituation, generalization and recall
Daveeta (Marcellin) Levy 2012	Tuskegee University	Imaging the progression of murine models of ovarian cancer
Lindsey Peterson 2012	University of Illinois	Are seizing sea lions a good model of temporal lobe epilepsy?
Amber Kerk 2012	Purdue University	Visualization of uroplakin expression in a mouse model of urinary schistosomiasis
Kathleen Heng 2012	UC Davis	Does mossy fiber sprouting cause epilepsy?
Jane Christman 2012	Michigan State University	Role of CXCR-4 and SDF-1 in recruitment of stem cells to a critical size bone defect
Ryan Schafbuch 2012	Iowa State University	WW peptide treatment in GEMM model of pancreatic cancer
Yue Moi Kouch 2012, 2013	Michigan State University	Does traumatic brain injury affect pain threshold?  Do <i>T. gondii</i> -induced changes in the gut microbiota direct the inflammatory response in the host?
Isaac Barber-Axthelm 2013	Oregon State University	A comparison of orthotopic vs. non-orthotopic colorectal tumor xenografts in a nod SCID- $\gamma$ mouse model
Laura Balgooyen 2013	Michigan State University	Does somatostatin cell loss cause temporal lobe epilepsy?
Rachel Juelsgaard 2013	Iowa State University	PGE2's role in mediating post stroke inflammation through microglial phagocytosis
Sunny Kao 2013	Colorado State University	Do NKT cells modulate the expression of inflammatory mediators <i>in vitro</i> in the presence of bone implant wear particles?
Andreana Lim 2013	Western University	Pericyte and PDGF-B role in contusion healing in the spinal cord
Austin Luskin 2013	University of Pennsylvania	Diagnosing Sepsis: Biomarkers in Man and Mouse
Jane Park 2013	Cornell University	Mechanisms of Post Traumatic Epilepsy: The Role of the Na <sup>+</sup> /K <sup>+</sup> /ATPase Pump in an Undercut Model
Stara Robertson 2013	Purdue University	Effects of Radiation on Tumor Cell Migration
Shanna Johnson 2014	Cornell University	Targeting astrocytes with miR-29a enrichment to limit neuronal damage following ischemic injury
Kristen Clark 2014	Oklahoma State University	Does in utero exposure to a naturally occurring neurotoxin cause epilepsy?
Emily Eulberg 2014	Iowa State University	Evaluation of a novel sAXL therapeutic for metastatic renal cancer
Christopher LeRoy 2014	Tuskegee University	Do surviving mossy cells become hypertrophied seizure-generating hub cells?

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Lindsey Meyer 2014	University of Wisconsin	How does Toxoplasma first interact with its host? Developing a method for transcriptional analysis of rare infected cells in complex tissues
Emily Spulak 2014	Colorado State University	What is the relationship between Salmonella typhimurium subpopulations during chronic infection?
Jourdan Brune 2014	Washington State University	Radiation and growth factor effects on circulating tumor cell migration
Becky Lee 2014	U.C. Davis	IQGAP-Targeted Cancer Therapy in Canine Melanoma
Shannon Nash 2014, 2105	Western University	Assessment of an in vivo orthotopic pancreatic tumor model Evaluation of SIV-infected pigtailed and rhesus macaques as a model for HIV-associated neurocognitive disorders
Raisa Glabman 2015	University of Pennsylvania	Epileptic sea lions display loss of parvalbumin-immunoreactive interneurons in the dentate gyrus
Marie Keith 2015	Kansas State University	Creating an in vivo chimeric model for a negative regulator of interferons
Margaret McCann 2015	Purdue University	Treating epithelial tumorigenesis through directed inhibition of the scaffold protein IQGAP1
Jonathan Nagel 2015	University of Pennsylvania	Soluble AXL decoy receptor (S6-1) improves therapeutic outcome in mouse model of Acute Myeloid Leukemia
Mary Carter 2015	Ohio State University	Using modified Toxoplasma gondii strains to study infection-induced chronic wasting in mice
Brett Casna 2015	Virginia-Maryland College of Veterinary Medicine	Enhancing post-stroke neurogenesis and neurological outcome by sustained inhibition of cerebral miR-181a
Alan Avalos 2015	Western University	Investigation of glomerulonephritis in mice lacking interferon signaling during granulocytic anaplasmosis
Fanny Demars 2015, 2016	Vetagro Sup & Universite Claude Bernard	Mechanisms governing the disassembly of neuroligin transsynaptic adhesion complexes Does in utero exposure to domoic acid, found in sea food, cause epilepsy?
Gabrielle Hofmann 2015	University of Illinois	Reduced inhibition by somatostatin interneurons in a mouse model of temporal lobe epilepsy
Gina Au 2016	Washington State University	Combining radiotherapy and immunotherapy in the treatment of cancer
Anna Baker 2016	Washington State University - Utah State University	Algal toxin causes brain damage in sea lions that models human temporal lobe epilepsy
Chantelle Khambholja 2016	Washington State University	What makes Toxoplasma gondii such a remarkable generalist? Using in-lab evolution to understand invasion and intracellular survival across host species
Kristi Kobluk 2016	Iowa State University	Genetic knockout screens identify important host genes for Zika virus
Tierra Rose 2016	Purdue University	Epileptic sea lions display loss of inhibitory interneurons in the hippocampus
Alexandria (Schauer) MacLeod 2016	University of Minnesota	Developing a preclinical mouse model of acute myeloid leukemia
Catherine Si 2016	North Carolina State University	Utilizing patient-derived orthotopic xenografts to understand human breast cancer
Elizabeth Tenborg 2016	UC Davis	How Toxoplasma gondii delivers effector proteins that control host cell functions
Stephanie Yang 2016	Michigan State University	Risk of fetal brain damage and neurodevelopmental disorders after perinatal infection
Tahsin Khan 2017	Western University	Local IL-4 delivery reverses bone loss by impacting bone turnover in a novel murine model of wear particle disease

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Michelle Liu 2017	Kansas State University	Chronic Salmonella Infection: Looking for correlations between granulomas and fecal shedding levels
Amanda Loftin 2017	UC Davis	Can a young systemic environment rejuvenate stem cells to restore muscle regeneration in aging?
Ariana Lopez 2017	North Carolina State University	Using California sea lions to test a mechanism of human temporal lobe epileptogenesis
Lauren Porter 2017	Ohio State Univ	Can in utero electroporation of microRNA-CSMN1 enhance corticospinal motor neuron development in vivo?
Bianca Reyes-Lopez 2017	Tuskegee University	Seizure inhibition and onset site localization by focal TTX infusion in a rat model of temporal lobe epilepsy
Christopher Shiprack 2017	Oregon State University	Developing organ-specific microfluidic assays to capture circulating tumor cells
Rebecca Tierce 2017	Colorado State University	Combination cellular immunotherapy and radiation therapy for the treatment of cancer
Amanda Seelman 2017, 2018	Western University	Can the MAPK pathway circumvent normal mechanisms of DNA replication initiation in melanoma?  Do California sea lions with temporal lobe epilepsy have fewer CB1+ inhibitory inputs onto granule cells?
Alan Kim 2018	Ohio State University	microRNA regulation of development of corticospinal motor neurons
Becky Dubowitz 2018	University of Edinburgh	Developing optimal conditions for 3D in-vitro co-culture of human mesenchymal stem cells and macrophages
Amy Wing Sze Leung 2018	Washington State University	Age is a determinant factor of cancer metastasis in mice
Jorge Mendieta Calle 2018	University of Florida	Assessment of AAVR contribution to AAV8 in vivo transduction post retro-orbital delivery
Hannah Skolnik 2018	UC Davis	Immunoprofile of a PD-L1 and PD-L2 inhibitor for treatment of cancer
Angelo Torres 2018	Midwestern University	Chlamydia-activated B cells as immunotherapy for HPV-associated cancer
Adam Myers 2018, 2019	Western University	The burden of medical comorbidities in a rhesus macaque model of autism spectrum disorder
Allison DuPont 2019	University of Illinois	How can <i>Taenia solium</i> be safely eradicated in rural villages in the Sichuan province?
John Hanlon 2019	Washington State University	Optimizing co-culture conditions of macrophage and mesenchymal stem cells for bone growth in a 3D scaffold
Nicolas Kaminow 2019	Tufts University	Efficacy of core decompression for early stage steroid-induced osteonecrosis of the femoral head in rabbits
Jee Eun (Jenna) Park 2019	Cornell University	Transfection of cortical neurons with microRNA
Rebecca Turcios 2019	Cornell University	Exploring genetic etiologies for arrhythmogenic right ventricular cardiomyopathy in chimpanzees
Kristina (Qris) Vu 2019	Cornell University	Do epileptic California Sea Lions have decreased inhibitory input to the hippocampal dentate gyrus?
Shanel Xian 2019	UC Davis	Understanding radiation-induced lymphopenia in mouse models of mammary and bone marrow irradiation
Heather Yee 2019	Ohio State University	Development of CRISPR in <i>Entamoeba histolytica</i>