

Undergraduate Research Experiences / Tulane Neuroscience Faculty

MAIN CAMPUS

Dr. Paul Colombo, associate professor of Psychology. Dr. Colombo studies the neuronal mechanisms of memory formation and age-related deficits. Email: pcolomb@tulane.edu

Website: <http://pandora.tcs.tulane.edu/psych/facultyPages/colomboP.cfm>

Dr. David Corey, assistant professor of Psychology. Dr. Corey studies brain asymmetry as it relates to sex differences in auditory processing, language fluency, and stuttering. Email: dave@tulane.edu

Website: <http://pandora.tcs.tulane.edu/psych/facultyPages/coreyD.cfm>

Peter Cserjesi, associate professor of Cell and Molecular Biology. Dr. Cserjesi uses a combination of mouse molecular genetics and in vitro systems to understand the genetic and molecular pathways regulating the development of the peripheral nervous and cardiovascular systems.

Email : pserj@tulane.edu Website : <http://www.tulane.edu/~cellmol/faculty.htm#CSERJESI>

Dr. Jill Daniel, associate professor of Psychology. Dr. Daniel is interested in the role of ovarian hormones in the regulation of non-reproductive behaviors. The focus of current research is to identify how estrogen influences cognition and to clarify the neural mechanisms that mediate its behavioral effects.

Email : jmdaniel@tulane.edu Website : <http://pandora.tcs.tulane.edu/psych/facultyPages/DanielJ.cfm>

Dr. Gary Dohanich, professor of Psychology. Dr. Dohanich studies the effects of ovarian hormones on learning, memory, and behavior; brain mechanisms that underlie the regulation of behavior by steroids; and the role of estrogen and acetylcholinergic activity in memory and diseases of memory.

Email: dohanich@tulane.edu Website: <http://pandora.tcs.tulane.edu/psych/facultyPages/dohanichG.cfm>

Dr. Edward Golob, assistant professor of Psychology. Dr. Golob studies use event-related potentials and magnetic resonance imaging to study the brain mechanisms underlying learning and memory in healthy aging and early Alzheimer's disease. Email: egolob@tulane.edu

Website: <http://pandora.tcs.tulane.edu/psych/facultyPages/golobE.cfm>

Dr. Benjamin Hall, assistant professor of Cell and Molecular Biology. Dr. Hall studies the cellular and molecular mechanisms that regulate synapse development and function in the neocortex. Studies in his lab are carried out both in *in vitro*, cortical networks and in acute brain slices using a combination of techniques in mouse genetics, electrophysiology, molecular biology, and cellular imaging. Email: benhall@tulane.edu

Website: <http://neuro.tulane.edu/faculty/hall.php>

Dr. Harry Howard, associate professor of Spanish and Portuguese. Dr. Howard's research focuses on the computational modeling of the neurological systems that produce the syntax and semantics of several languages.

Email: howard@tulane.edu Website: <http://www.tulane.edu/~howard/>

Dr. Fiona Inglis, associate professor of Cell and Molecular Biology. Dr. Inglis uses molecular approaches to study activity-dependent dendritic branching spinal cord neurons during development and regeneration. Email: inglis@tulane.edu

Website: <http://www.tulane.edu/~cellmol/faculty.htm#INGLIS>

Dr. Laura Schrader, assistant professor of Cell and Molecular Biology. Dr. Schrader studies the molecular mechanisms of synaptic plasticity and learning and memory. Her techniques include: patch clamp electrophysiology in brain slices, behavioral paradigms, molecular biology and biochemistry.

Email : schrader@tulane.edu Website : <http://www.tulane.edu/~cellmol/faculty.htm#SCHRADER>

Dr. Jeffrey Tasker, professor of Cell and Molecular Biology. Dr. Tasker studies the physiological and biochemical mechanisms that control neurons in the hypothalamus responsible for control of pituitary hormone release. He studies neuroendocrine cells involved in reproductive and homeostatic function, stress and feeding.

Email: tasker@tulane.edu

Website: <http://www.tulane.edu/~tasker/homepage/taskerhome.htm/>

Dr. Nandini Vasudevan, assistant professor of Cell and Molecular Biology. Dr. Vasudevan's research involves understanding estrogen and thyroid hormone signaling in the brain. Email: nandini@tulane.edu Website: <http://neuro.tulane.edu/faculty/vasudevan.htm>

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MEDICAL SCHOOL

Dr. Joseph Constans, Clinical Associate Professor of Psychiatry and Neurology. Dr. Constans studies the effects of trauma on emotional and cognitive functioning. In particular, he is interested in studying attention, judgment, and memory biases in individuals with posttraumatic stress disorder (PTSD) and in examining the hypothesis that these biases help maintain pathological emotional responses to trauma. Email : jconstan@tulane.edu Website : <http://www.som.tulane.edu/neurograd/constanshm.htm#Constans>

Dr. Allan Kalueff, assistant professor of Pharmacology. Dr. Kalueff studies psychopharmacology of stress, anxiety and depression, Animal (experimental) models, Serotonin and serotonin syndrome, Epilepsy, Biological Psychiatry, Pharmacogenetics, Translational neuroscience non-synaptic mechanisms regulating neuronal excitability; regulation of neuronal/glia cell volume and ion concentrations; pathophysiology of stroke and epilepsy; changes with maturation. Email: akalueff@tulane.edu Website: <http://www.kaluefflab.com/>

Dr. Norman Kreisman, professor of Physiology. Dr. Kreisman studies non-synaptic mechanisms regulating neuronal excitability; regulation of neuronal/glia cell volume and ion concentrations; pathophysiology of stroke and epilepsy; changes with maturation. Email: nkreism@tulane.edu Website: <http://www.som.tulane.edu/departments/physiology/fac.html>

Dr. Guoyong Wang, Assistant Professor of Structural and Cellular Biology. Dr. Wang uses patch-clamp recording, confocal imaging, and immunocytochemistry to study the functional and structural organization of retinal ganglion cells in the developing and mature retina. Email : gwang@tulane.edu Website : <http://www.som.tulane.edu/departments/neuroscience/wanghm.html#Wang>

Dr. James Zadina, professor of Medicine and Director of the Neuroscience Laboratory, VA Medical Center and Tulane University. Dr. Zadina studies peptides, especially opioids; receptor binding, mechanisms of action, behavioral and developmental effects. Email: jzadina@tulane.edu Website : <http://www.som.tulane.edu/departments/neuroscience/zadinahm.htm#Zadina>