

Specialized Predoctoral and Postdoctoral NIH Chemosensory Training Program

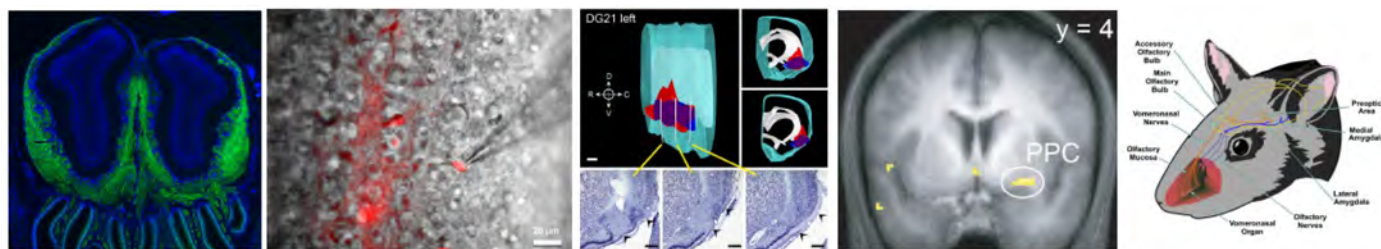
Available at Florida State University, Tallahassee, USA

Predocutorial Applications Being Accepted for all Trainers –

Early decision, December 15; final deadline December 31, 2017

Postdoctoral Interviews Available in Laboratories of Spector, Fadool, and Li –

Now through May 31, 2018 or until filled



Descriptions of Chemosensory Trainers:

Lisa Eckel, Ph.D., Professor of Psychology and Neuroscience

My research explores the roles of sensory, endocrine and endocannabinoid systems in the control of ingestive behavior to better understand how dysregulation of these systems may promote eating related disorders including anorexia nervosa, binge eating and obesity.

Debra Ann Fadool, Ph.D., Professor of Biological Science, Program in Neuroscience and Molecular Biophysics

My research explores regulatory signaling by ion channels, endocrine pathways, and neuromodulators that govern olfactory coding, odor detection, and energy homeostasis at the level of the olfactory bulb to understand sensory dysfunction attributed to diabetes and obesity.

Tom Houpt, Ph.D., Professor of Biological Science and Neuroscience

Animals are extremely good at learning which tastes and flavors predict nutritious foods, and which predict toxic foods to be avoided. I study the molecular mechanisms underlying food learning in conditioned taste aversion and flavor preference models.

Wen Li, Ph.D., Associate Professor of Psychology and Neuroscience

The role of sensory systems in emotion encoding and its implications in emotional disorders such as anxiety and depression, using fMRI, event related potentials, autonomic physiology and sensory psychophysics. Current projects include perceptual training and category learning, fear learning and long-term fear memory, and olfactory perception and perceptual modification in anxiety disorders including post-traumatic stress disorder.

Michael Meredith, Ph.D., Professor of Biological Science and Neuroscience

Research on mechanisms of central processing of chemosensory communication signals in the amygdala, using physiological and behavioral methods including immediate-early gene mapping and brain-slice electrophysiology.

Alan C. Spector, Ph.D., Distinguished Research Professor of Psychology and Neuroscience

We use behavioral procedures, coupled with experimental manipulations of the peripheral and central gustatory system, to study the functional organization of taste processing in the brain.

Paul Q. Trombley, Ph.D., Associate Professor of Biological Science and Neuroscience

My research program explores cellular and molecular mechanisms that regulate neuronal excitability and the efficacy of synaptic transmission in the olfactory bulb (OB). Our experimental approach uses primary neuronal cultures, brain slices, and patch-clamp electrophysiology, in combination with molecular biology and histological techniques, to examine modulation of ion channels, neurotransmitter receptors, and

Please contact individual CTP faculty members to discuss possibilities for joining their research team

Or contact Program Director, Dr. D.A. Fadool (phone/skype 850 644-4775; dfadool@bio.fsu.edu)

See also www.neuro.fsu.edu and <http://opda.fsu.edu> @FSUCTP



The Departments of Biological Science and Psychology at FSU are large, interdisciplinary departments with research programs in Neuroscience, Molecular Biophysics, Computational Science and Information Technology, Cognitive Science and Clinical Psychology/Neuroscience with access to advanced technical facilities including DNA, imaging, hybridoma, protein, viral, and instrumentation/engineering core facilities.