Specialized Predoctoral and Postdoctoral Chemosensory Training
Available at Florida State University, Tallahassee, USA

Predoctoral Applications Being Accepted for all Trainers –
Early decision, November 14; final deadline December 1, 2015
Postdoctoral Interviews Available in Laboratories of Spector, Fadool, and Li –
Now through July 1, 2015 or until filled

Descriptions of Chemosensory Trainers:

Robert Contreras, Ph.D., James C. Smith Professor of Psychology and Neuroscience
The research focuses on how the rodent peripheral gustatory system codes information about taste quality and intensity, as well as how internal (e.g. sodium deprivation, hormone levels) and external (e.g. stimulus temperature) factors influence coding using electrophysiology.

Lisa Eckel, Ph.D., Professor of Psychology and Neuroscience
Our group uses the rat as a model system to investigate the relationship between taste and feeding behavior using behavioral, psychophysical and molecular biology approaches.

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
My research centers on the role of the sensory system in emotion encoding in humans and its implications in emotional disorders (anxiety and depression).

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 synaptic circuits in the OB.

Please see Debi Fadool (phone/text 850 241-6392; dfadool@bio.fsu.edu) for information about either program or for on-site interviews throughout the annual meeting.