Neuroscience Seminar Series Calendar – Spring 2019

Tuesday, January 29th

CU-Boulder – Interdepartmental Neuroscience Seminar Series

Muenzinger Psychology, Room E214, 4-5 pm

Tom Kash, John Andrews Distinguished Professor of Alcohol Studies, University of North Carolina at Chapel Hill, NC.

Modulation in the Extended Amygdala: Role in Pathological Behavior

One of the goals of the Kash Lab is to understand how molecules, including neuropeptides, in the brain can change information flow through distinct brain circuits, and how this can drive maladaptive behavior. In this talk, I will discuss some of our new data detailing how neuropeptides can change synaptic function and excitability in discrete cell types, and how this could drive pathological behavior associated with drug abuse.
**Tuesday, February 12th**

CU-Boulder – Interdepartmental Neuroscience Seminar Series

Muenzinger Psychology, Room E214, 4-5 pm

**Yavin Shaham**, Branch Chief and Senior Investigator, Intramural Research Program, National Institute on Drug Abuse, Baltimore, MD

**Incubation of Drug Craving after Voluntary Abstinence: Behavior and Circuit Mechanisms**

In previous studies, we and others have used a rat model of drug relapse and craving to demonstrate time-dependent increases in drug seeking after experimenter-imposed (forced) abstinence from several drugs of abuse (heroin, cocaine, methamphetamine, nicotine), a phenomenon we termed incubation of drug craving (Grimm et al. Nature, 2001; Pickens et al. TINS, 2011). In these studies, the rats were removed from their drug self-administration environment during extended periods of forced abstinence. More recently, we have established a rat model in which we observe incubation of drug craving after extended periods of voluntary abstinence in the drug environment. Voluntary abstinence is achieved using a mutually exclusive discrete choice procedure in which food-sated male and female rats with prior extended history of intravenous methamphetamine or heroin self-administration can choose every day (20 trials per day) between the palatable food and the drug. In this lecture, I will present our behavioral, pharmacological, and brain circuit characterization of incubation of drug craving after voluntary abstinence. I will also introduce a novel relapse model in which voluntary abstinence is achieved by providing the rats an alternative social reward.
Tuesday, February 26th
CU-Boulder – Interdepartmental Neuroscience Seminar Series
Muenzinger Psychology, Room E214, 4-5 pm

Clancy Blair, Professor, Department of Applied Physiology, Steinhardt School of Culture Education and Human Development, New York University, NY.

Developmental Psychobiology of Self-Regulation: Adverse Early Experience and Potential for Change

This talk presents a developmental psychobiological model that brings some conceptual clarity to research on self-regulation. In the model, self-regulation emerges from integrated processes at the biological and behavioral levels that are shaped by the social and cultural contexts in which development is occurring. One of the implications of the model is that in highly disadvantaged contexts, self-regulation is more likely to be reactive and less prototypically well regulated. A growing body of research, however, indicates that reflective self-regulation such as that required for success in school can be fostered through supports for families and through innovative programs that enhance the quality of children’s early experiences. The model will be illustrated with data from a large ongoing prospective longitudinal study.
Tuesday, March 12th

CU-Boulder – Interdepartmental Neuroscience Seminar Series

Muenzinger Psychology, Room E214, 4-5 pm

William Old, Assistant Professor, Department of Molecular Cellular and Developmental Biology, University of Colorado Boulder, CO

TBA
Tuesday, April 9th
CU-Boulder – Interdepartmental Neuroscience Seminar Series

Muenzinger Psychology, Room E214, 4-5 pm

Monica Fleshner, Professor, Department of Integrative Physiology, University of Colorado Boulder, CO

TBA
Tuesday, April 23rd

CU-Boulder – Interdepartmental Neuroscience Seminar Series

Muenzinger Psychology, Room E214, 4-5 pm

Aviva Abosch, Professor, Departments of Neurosurgery and Neurology, University of Colorado, Anschutz Medical campus, Denver

Using the Operating Room for Human Subjects Research in Neuroscience

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