

Rat Genetics and Genomics for Psychiatric Disorders and Addiction

JUNE 29, 2015

University of Chicago | Ida Noyes Hall
1212 East 59th Street | Chicago, IL 60637

SESSION I: RECENT ADVANCES IN THE GENETICS OF SUBSTANCE ABUSE AND ADDICTION

PAUL J. KENNY, PH.D.

Regulation of nicotinic receptor signaling in the rat habenulo-interpeduncular system

SUBHASH C. PANDEY, PH.D.

Brain epigenetics in anxiety and alcoholism

MARINA WOLF, PH.D.

Synaptic mechanisms maintaining persistent cocaine craving

DANIEL MCGEHEE, PH.D.

Exploring Nicotine-Induced Reward and Aversion with Optogenetic and Genomic Approaches

T. CELESTE NAPIER, PH.D.

Utility of self-administering HIV-1 transgenic rats to model addiction
HIV/AIDS comorbidity

MARGRET MCCARTHY, PH.D.

Epigenetics of sex differences in rat brain

Poster session and lunch

Three winners of best posters in a contest will win \$300 each.

SESSION II: ADVANCES IN RAT GENETICS AND GENOMICS FOR HUMAN DISEASE MODELING

ABRAHAM A. PALMER, PH.D.

Center for GWAS in outbred rats: current activities and opportunities for future collaborations

AMELIE BAUD, PH.D.

The genetic basis of social effects

THOMAS JHOU, PH.D.

Heritability of cocaine avoidance behavior in rats, and its implications for transitioning from occasional to heavy patterns of drug use

ARON GEURTS, PH.D.

Genetic engineering in rat models, progress and challenges for addiction and behavioral research

DAVID GOLDMAN, M.D.

Exome of heritable addiction phenotypes and psychiatric disorders

J. DAVID JENTSCH, PH.D.

Genetic and genomic basis of impulsivity and drug self-administration in inbred mice

MARK S. BRODIE, PH.D.

Epigenetic regulation of sensitivity to GABA in the ventral tegmental area during ethanol withdrawal: Histone deacetylase inhibitors reverse some alcohol-induced brain changes

All are welcome. Free lunch and coffee/snacks will be provided to registered attendees. Register at ratgenes.org/register Registration is open until **May 15, 2015**, space is limited.



Genes and Addiction
NIDA Center for GWAS in Outbred Rats



The Grossman Institute for Neuroscience,
Quantitative Biology, and Human Behavior