

Rat Genetics and Genomics For Psychiatric Disorders and Addiction Workshop

University of Chicago June 29, 2015

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| 9:00 am | Introduction
Da-Yu Wu, NIDA/NIH
Abraham Palmer, University of Chicago |
| 9:10 am | Session I: Recent Advances in the Genetics of Substance Abuse and Addiction
This session presents the most recent developments and challenges in behavioral genetics and rat modeling of human behavior, substance use and dependence. |
| 9:10 am | Paul J. Kenny, Ph.D. Icahn School of Medicine at Mount Sinai
Regulation of nicotinic receptor signaling in the rat habenulo-interpeduncular system |
| 9:40 am | Subhash C. Pandey, Ph.D. University of Illinois at Chicago
Brain epigenetics in anxiety and alcoholism |
| 10:10 am | Daniel McGehee, Ph.D. University of Chicago
Exploring Nicotine-Induced Reward and Aversion with Optogenetic and Genomic Approaches |
| 10:40 am – 11:00 am | Coffee Break and Poster Session |
| 11:00 am | T. Celeste Napier, Ph.D. Rush University Medical Center
Utility of self-administering HIV-1 transgenic rats to model addiction-HIV/AIDS comorbidity |
| 11:30 am | Marina Wolf, Ph.D. Rosalind Franklin University of Medicine and Science
Synaptic mechanisms maintaining persistent cocaine craving |
| 12:00 am | Margret McCarthy, Ph.D. University of Maryland School of Medicine
Epigenetics of sex differences in rat brain |
| 12:30 noon – 1:45 pm | Lunch and Poster Session (vote for three best posters) |
| 1:45 pm | Session II: Advances in Rat Genetics and Genomics for Human Disease Modeling
This session provides a rigorous discussion on opportunities and challenges in rat genetics and genomics in modeling substance use and addiction. |
| 1:45 pm (Keynote) | J. David Jentsch, Ph.D. University of California, Los Angeles
Genetic and genomic basis of impulsivity and drug self-administration in inbred mice |

2:30 pm	Aron Geurts, Ph.D. Medical College of Wisconsin Genetic Engineering in rat models, progress and challenges for addiction and behavioral research
3:00 pm	Mark S. Brodie, Ph.D. University of Illinois at Chicago Epigenetic regulation of sensitivity to GABA in the ventral tegmental area during ethanol withdrawal: Histone deacetylase inhibitors reverse some alcohol-induced brain changes
3:30 pm – 3:50	Coffee Break and Poster Session
3:50 pm	Abraham Palmer, Ph.D. University of Chicago Center for GWAS in outbred rats: current activities and opportunities for future collaborations
4:20 pm	Thomas Jhou, Ph.D. Heritability of cocaine avoidance behavior in rats, and its implications for transitioning from occasional to heavy patterns of drug use
4:50 pm	Amelia Baud, Ph.D. University of Oxford The genetic basis of social effects
5:20 pm	David Goldman NIAAA/NIH Exome of heritable addiction phenotypes and psychiatric disorders
5:50 pm	Poster Award Presentation
5:55 pm	Adjourn