Short Course on the Genetics of Addiction

September 15-20, 2019

Event Schedule
All sessions are at the Highseas Conference Center

Sunday, September 15th

PM
3:00  Highseas Check-In and
5:00  Social Hour
6:00  Dinner
7:00  Software Check-in
Vivek Philip, Ph.D. and Hao He, Ph.D., The Jackson Laboratory

Monday, September 16th

AM
7:30  Breakfast
8:15  Course Welcome and Introductions
Elissa Chesler, Ph.D., The Jackson Laboratory

8:30  Overview of Alcoholism, Addiction, Drugs and the Brain
Wade Berrettini, M.D., Ph.D., University of Pennsylvania

9:30  Overview of Model Organism Based Genetic Studies of Addiction
Elissa Chesler, Ph.D., The Jackson Laboratory

10:30  Coffee Break

11:00  Methods in Behavioral Phenotyping
Stacey Rizzo, Ph.D., University of Pittsburgh
PM
12:00 Lunch

1:00 WORKSHOP: Reproducibility and Traceability
Shannon McWeeney Ph.D., Oregon Health and Sciences University

2:30 Coffee Break

3:00 WORKSHOP: Accessing Mouse Data Resources
Shannon McWeeney Ph.D., Oregon Health and Sciences University and
Vivek Philip, Ph.D., The Jackson Laboratory

5:00 Town Hall Discussion & Happy Hour

6:00 Dinner

7:00 Student Presentations and Introductions

Tuesday, September 17th

AM
7:30 Breakfast

8:15 Announcements

8:30 High Throughput Genetic Studies of Addiction
Lisa Tarantino, Ph.D., University of North Carolina

9:30 Addiction Related Cognition
David Jentsch, Ph.D., University of California, Los Angeles

10:30 Coffee Break

11:00 WORKSHOP: GeneNetwork, MPD
Elissa Chesler, Ph.D., The Jackson Laboratory and
Molly Bogue, Ph.D., The Jackson Laboratory

PM
12:00 Lunch

1:00 Gene Expression
Shannon McWeeney Ph.D., Oregon Health and Sciences University

2:00 Coffee Break

2:30 WORKSHOP: Gene Expression and RNA Sequencing
Shannon McWeeney Ph.D., Oregon Health and Sciences University

5:00 Town Hall Discussion

6:00 Dinner
Wednesday, September 18th

AM
7:30 Breakfast
8:15 Announcements
8:30 **Mapping Addiction in Closely Related Strains**
*Vivek Kumar, Ph.D., The Jackson Laboratory*
9:30 **F2 Mapping Cross**
*Vivek Kumar, Ph.D., The Jackson Laboratory*
10:00 Coffee Break
10:15 **Career Paths and NIDA Funding Opportunities for Research on the Genetics of Addiction**
*Amy Lossie, Ph.D., and Jonathan Pollock, Ph.D., NIDA*
11:00 **Complex Trait Analysis and Advanced Mouse Populations; Systems Genetics and Reference Populations**
*Elissa Chesler, Ph.D., The Jackson Laboratory*

PM
12:00 Lunch
1:00 **WORKSHOP: DO & eQTL Mapping**
*Vivek Philip, Ph.D., The Jackson Laboratory*
2:30 Coffee Break
3:00 **WORKSHOP: QTL2, Sanger Mouse Genomes**
*Vivek Philip, Ph.D., The Jackson Laboratory*
5:00 **Town Hall Discussion & Happy Hour**
6:00 Banquet Dinner

Thursday, September 19th

AM
7:30 Breakfast
8:15 Announcements
8:30 **Issues in Human Genetics of Addiction**
*Laura Bierut, M.D., Washington University, St. Louis*
9:30 **Nicotine GWAS**
*Thorgeir E. Thorgeirsson, Ph.D., deCODE Genetics*
10:30  Coffee Break

11:00  Translation of Addiction Research into the Clinic  
Bradley Evanoff, M.D., MPH, Washington University, St. Louis

PM  
12:00  Lunch

1:00  Psychiatric Genomics Consortium  
Howard Edenberg, Ph.D., Indiana University School of Medicine

2:00  Coffee Break

2:30  Human Genetics, Polygenic Lecture & Workshop  
Sandra Sanchez, Ph.D., University of California, San Diego

3:30  WORKSHOP: Human Genetics and Cross Species Translation  
Timothy Reynolds Ph.D. and Jason Bubier, Ph.D., The Jackson Laboratory and Sandra Sanchez, Ph.D., University of California, San Diego

5:00  Town Hall Discussion

6:00  Dinner

Friday, September 20th

AM  
7:30  Breakfast

8:15  Announcements

8:30  Modeling Human Sequence Variation Using CRISPR-Cas9  
Kevin Peterson, Ph.D., The Jackson Laboratory

9:30  WORKSHOP: Guide Design  
Kevin Peterson, Ph.D., The Jackson Laboratory

10:30  Break

11:00  Modeling Addiction-Relevant SNPs: Oprm1 in Mice and Men  
Julie Blendy, Ph.D., Perelman School of Medicine, University of Pennsylvania

PM

12:00  Lunch

1:00  Addiction Neuroepigenetics: Deciphering Novel Roles for Aberrant Histone Dopaminylation in Substance Use Disorder  
Ian Maze, Ph.D., Icahn School of Medicine at Mount Sinai

2:00  Epigenetics  
Chris Pierce, Ph.D., University of Pennsylvania

3:00  Coffee Break
3:30  Closing Discussions w/students Elevator and Grant Pitches
5:00  Adjourn & Dinner on your Own

Saturday, September 21st

AM
7:30  Breakfast
9:00  Highseas Check Out