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**Short Course on the Genetics of Addiction**

**September 16-21, 2018**

**Tentative Event Schedule***All sessions are at the Highseas Conference Center*

**Sunday, September 16th**

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 17th**

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., The Jackson Laboratory*

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 18th**

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 & Happy Hour**

6:00 Dinner

**Wednesday, September 19th**

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*

**Vivek**

10:00 Coffee Break

10:30 **Complex Trait Analysis and Advanced Mouse Populations** *Elissa Chesler, Ph.D., The Jackson Laboratory*

11:30 **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 20th**

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 **Career Paths and NIDA Funding Opportunities for Research on the Genetics of Addiction***Jonathan Pollock, Ph.D., NIDA*

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 Free Time

6:00 Dinner

7:00 **Translation of Addiction Research into the Clinic** *Bradley Evanoff, M.D., MPH, Washington University, St. Louis*

**Friday, September 21st**

AM  
7:30 Breakfast

8:15 Announcements

8:30 **Addiction Neuroepigenetics: Deciphering Novel Roles for Aberrant Histone Dopaminylation in Substance Use Disorder***Ian Maze, Ph.D., Mount Sanai School of Medicine*

9:30 **Epigenetics** *Chris Pierce, Ph.D., University of Pennsylvania*

10:30 Coffee Break

11:00 **Modeling Human Sequence Variation Using CRISPR-Cas9***Michael Wiles, Ph.D., The Jackson Laboratory*

PM  
12:00 Lunch

1:00 **WORKSHOP: Guide Design** *Kevin Peterson, Ph.D., The Jackson Laboratory*

2:00 **Modeling Addiction-Relevant SNPs: *Oprm1* in Mice and Men***Julie Blendy, Ph.D., Perelman School of Medicine, 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 22nd**

AM  
7:30 Breakfast

9:00 Highseas Check Out