

Short Course on the Genetics of Addiction

September 11-16, 2016

EVENT SCHEDULE

All sessions are at the Highseas Conference Center

Sunday, September 11th

PM

5:00 Registration and Reception at Highseas

6:00 Dinner

Monday, September 12th

| AM 7:30-8:15 | Breakfast |
|-----------------|--|
| 8:15-8:30 | Course Welcome Elissa Chesler, Ph.D., The Jackson Laboratory |
| 8:30-9:30 | Overview of Alcoholism and Addiction Wade Berrettini, M.D., Ph.D., University of Pennsylvania |
| 9:30-10:30 | Addiction Related Cognition David Jentsch, Ph.D., University of California, Los Angeles |
| 10:30-11:00 | Break |
| 11:00-12:00 | The Science, Art & Anecdotes of Behavioral Phenotyping Stacey Rizzo, Ph.D., The Jackson Laboratory |

| PM | |
|------------|------------------------|
| 12:00-1:00 | Lunch |
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| 1:00-2:30 | Student Presentations |
| 2:30-6:00 | Free Time |
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| 6:00-7:00 | Dinner |

Tuesday, September 13th

| AM 7:30-8:15 | Breakfast |
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| 8:15-8:30 | Morning Announcements Elissa Chesler, Ph.D., The Jackson Laboratory |
| 8:30-9:30 | Characterizing the Molecular Mechanisms of Addiction Using Mouse Models Paul J. Kenny, Ph.D., Icahn School of Medicine at Mount Sinai |
| 9:30-10:30 | Modeling Addiction-Relevant SNPs: <i>Oprm1</i> in Mice and Men Julie A. Blendy, Ph.D. Perelman School of Medicine, University of Pennsylvania |
| 10:30-11:00 | Break |
| 11:00-12:00 | Genetics of Addiction in Selected Lines Nicholas Grahame, Ph.D., Indiana University-Purdue University, Indianapolis |
| PM 12:00-1:00 | Lunch |
| 1:00-2:00 | Complex Trait Analysis and Advanced Mouse Populations Gary Churchill, Ph.D., The Jackson Laboratory |
| 2:00-3:00 | Gene Expression Analysis and eQTL Shannon McWeeney, Ph.D., Oregon Health & Science University |
| 3:00-6:00 | WORKSHOP: Gene Expression Analysis and QTL Mapping 1 Shannon McWeeney, Ph.D., Oregon Health & Science University |
| 6:00 | Dinner on your own (Items will be available in the snack room for making your own dinner or you can go into Bar Harbor) |

Wednesday, September 14th

| AM 7:30-8:15 | Breakfast |
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| 8:15-8:30 | Announcements Elissa Chesler, Ph.D., The Jackson Laboratory |
| 8:30-9:30 | Mapping Addiction in Closely Related Strains Vivek Kumar, Ph.D., The Jackson Laboratory |
| 9:30-10:30 | High Throughput Genetic Studies of Addiction Lisa Tarantino, Ph.D., University of North Carolina |
| 10:30-11:00 | Break |
| 11:00-12:00 | Systems Genetics and Integrative Genomics Elissa Chesler, Ph.D., The Jackson Laboratory |
| PM 12:00-1:00 | Lunch |
| 1:00-2:00 | DO & eQTL Mapping Dan Gatti, Ph.D., The Jackson Laboratory |
| 2:00-5:00 | WORKSHOPS: R/QTL, DOQTL, QTLREL, Sanger Moue Genomes, GeneNetwork and Gene Weavery |
| 5:00-6:30 | Free Time |
| 6:30 | Dinner |
| 7:30-9:00 | Clinical Translation Bradley Evanoff, M.D., MPH, Washington University in St. Louis |

Thursday, September 15th

ΑM

7:30-8:15 **Breakfast**

8:15-8:30 Announcements

Elissa Chesler, Ph.D., The Jackson Laboratory

| 8:30-9:30 | Pharmacogenetics Wade Berrettini, M.D., Ph.D., University of Pennsylvania |
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| 9:30-10:30 | Refinement of the Human Addiction Phenotype Pamela A. Madden, Ph.D., Washington University, St Louis |
| 10:30-11:00 | Break |
| 11:00-12:00 | Epigenetics Chris Pierce, University of Pennsylvania |
| PM 12:00-1:00 | Lunch |
| 1:00-2:00 | Human Genetics Analysis Richard Crist, Ph.D., University of Pennsylvania |
| 2:30-3:30 | Break |
| 3:30-4:30 | Career Paths and NIDA Funding Opportunities for Research on the Genetics of Addiction Jonathan Pollock, Ph.D., National Institute on Drug Abuse/NIH |
| 5:00-6:30 | Free Time |
| 6:30 | Lobster Dinner |

Friday, September 16th

| AM 7:30-8:15 | Breakfast |
|-----------------|--|
| 8:15-8:30 | Announcements Elissa Chesler, Ph.D., The Jackson Laboratory |
| 8:30-9:30 | CRISPR-Cas 9 Michael Wiles, Ph.D., The Jackson Laboratory |
| 9:30-10:30 | Nicotine GWAS – Anatomy of a Success Story Thorgeir E. Thorgeirsson, Ph.D., deCODE Genetics |
| 10:30-11:00 | Break |

11:00-12:00 **PGC**

Raymond Walters, Ph.D., Broad Institute

PM

12:00-1:00 Lunch

1:00-2:00 Human Addiction Genetics

Laura Bierut, M.D., Washington University, St Louis

End of Course – Labs remain open

6:00pm Optional Dinner at Higheas - please sign up in advance