## UConn/JAX Genomics Symposium

Student Union  
University of Connecticut  
2110 Hillside Road

Storrs, Connecticut

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>7:45 AM</td>
<td>Registration and Breakfast</td>
<td>Theatre Lobby/Room 104</td>
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<tr>
<td>8:15 AM</td>
<td>Opening Remarks</td>
<td>Theatre</td>
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<tr>
<td></td>
<td>President Susan Herbst, University of Connecticut</td>
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<tr>
<td>8:30 AM</td>
<td>Frank Torti, Executive Vice President for Health Affairs, and Dean, School of Medicine</td>
<td>Theatre</td>
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<td>8:45 AM</td>
<td>Edison Liu, President and Chief Executive Officer</td>
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<td>Session 1 – Moderator: Wayne Frankel, The Jackson Laboratory</td>
<td>Theatre</td>
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<tr>
<td>9:15 AM</td>
<td>Iron and breast cancer risk</td>
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<td></td>
<td>Suzy Torti, University of Connecticut Health Center</td>
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<tr>
<td>9:27 AM</td>
<td>From Genomic Technology to Genome Biology</td>
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<td>Yijun Ruan, The Jackson Laboratory</td>
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<tr>
<td>9:39 AM</td>
<td>Bioactive Lipid Signaling (Sphingosine-1-phosphate, S1P) in Pediatric Solid Tumors</td>
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<td>Fernando Ferrer, Connecticut Children’s Medical Center</td>
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<tr>
<td>9:51 AM</td>
<td>The JAX Patient Derived Xenograft (PDX) Cancer Consortium: Changing the Course of Clinical Advancement</td>
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<td>Neal Goodwin, The Jackson Laboratory</td>
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<tr>
<td>10:03 AM</td>
<td>Noncoding RNAs and Chromosome Instability in Human Health and Disease</td>
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<td>Rachel O’Neill, University of Connecticut</td>
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<tr>
<td>10:15 AM</td>
<td>Chromosome as oncogenic organizer: mechanisms and functional consequences of focal amplification shaped by structural mutations in breast cancer</td>
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<td>Koichiro Inaki, The Jackson Laboratory</td>
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<tr>
<td>10:27 AM</td>
<td>BREAK</td>
<td>Theatre Lobby</td>
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<tr>
<td>10:42 AM</td>
<td>Use of iPS-derived Neural Cells to Examine Biological Effects of Alcohol on Human Neurons in vitro</td>
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<td>Jonathan Covault, University of Connecticut Health Center</td>
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<tr>
<td>10:54 AM</td>
<td>Post-transcriptional mechanisms underlying neurodegeneration</td>
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<td>Susan Ackerman, The Jackson Laboratory</td>
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<tr>
<td>11:06 AM</td>
<td>The Role of Horizontal Gene Transfer in Adaptation and Innovation</td>
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<td>J. Peter Gogarten, University of Connecticut</td>
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11:18 AM - *Insights gained from Mycoplasma gallisepticum comparative genomic analyses*
Steve Geary, University of Connecticut

11:30 AM - *Translational Vision Research Models (TVRM), a chemical mutagenesis program to identify models of ocular diseases at The Jackson Laboratory*
Patsy Nishina, The Jackson Laboratory

11:42 AM - *Personalized Approach to Lifestyle: Biomarkers for Management of Dietary Carbohydrate, SNPs, the Microbiome, and Beyond*
Jeff Volek, University of Connecticut

11:54 AM - *Personalized Medicine in Real Time: The Genomas Business and Clinical Experience 4,000 Patients Later*
Gualberto Ruano

12:06 PM - Lunch

1:30 PM - *New Tools for Mouse Genetics*
Gary Churchill, The Jackson Laboratory

1:42 PM - *Comparative Genomics of Aging and Stress Adaptation*
Elaine Choung-Hee Lee, University of Connecticut

1:54 PM - *Integrative functional genomics in GeneWeaver.org identifies a candidate for alcohol preference and withdrawal*
Elissa Chesler, The Jackson Laboratory

2:06 PM - *Clinical iPS approaches leading to "reverse genomics" to investigate patient-specific hepatic dysfunction*
Theodore Rasmussen, University of Connecticut

2:18 PM - *Complex Haploinsufficiency as a Tool for Modeling Genetic Disease*
Greg Carter, The Jackson Laboratory

2:30 PM - *Genome-wide chromatin binding studies revealed epigenetic modulation by TFII-I during differentiation of embryonic stem cells and neural crest progenitors*
Dashzeveg Bayarsaihan, University of Connecticut Health Center

2:42 PM - BREAK

3:09 PM - *The JAX KOMP2 Program: Resources and Opportunities*
Steve Murray, The Jackson Laboratory

3:21 PM - *Fungal Communities as Genomic Signatures of Health and Disease*
Linda Strausbaugh, University of Connecticut
3:33 PM  -  Genetic Resources at The Jackson Laboratory  
Laura Reinholdt, The Jackson Laboratory  

3:45 PM  -  Epigenetic mechanisms in the regulation of ontogeny of cytochrome P450s  
Xiao-bo Zhong, University of Connecticut  

3:57 PM  -  BREAK  
Session 5 – Moderator:  Leslie Loew, University of Connecticut Health Center  

4:12 PM  -  Microbes and Animal Health, Insights from Genomic and Metagenomic Studies of Digestive-Tract Microbiomes  
Joerg Graf, University of Connecticut  

4:24 PM  -  Translational Research on Age-related Kidney Disease  
Ron Korstanje, The Jackson Laboratory  

4:36 PM  -  Genome-wide RNAi screens as a tool to study chromosome segregation  
Barbara Mellone, University of Connecticut  

4:48 PM  -  X-linked Imprinted Genes and Sex Ratio Bias in Autism Spectrum Disorder  
Michael O’Neill, University of Connecticut  

5:00 PM  -  Genetic Predisposition for Metabolic Disorders in Dairy Cattle  
Heather White, University of Connecticut  

5:12 PM  -  Reception  
Student Union Mall  

7:45 AM  -  Registration and Breakfast  
Session 6 – Moderator:  Bruce Liang, University of Connecticut Health Center  
Room 104  

8:15 AM  -  Insights into RNA biology from the modENCODE and ENCODE projects  
Brenton Graveley, University of Connecticut Health Center  

8:27 AM  -  Various Bioinformatics Research/Support Issues in Integrating Omic Datasets  
Dong-Guk Shin, University of Connecticut  

8:39 AM  -  RNA Editing: The Neo-Gold Rush of Diversity?  
Bob Braun, The Jackson Laboratory  

8:51 AM  -  Computational Techniques for Genomics  
Sanguthevar Rajasekaran, University of Connecticut  

9:03 AM  -  Optimizing therapeutic strategies for disease treatment using systems biology  
Ranjan Srivastava, University of Connecticut  

9:15 AM  -  Targeted and whole exome sequencing to identify human glaucoma relevant mutations  
Gareth Howell, The Jackson Laboratory  

9:27 AM  -  BREAK  
Theatre Lobby
Session 7 – Moderator: Luanne Peters, The Jackson Laboratory

            Yufeng Wu, University of Connecticut

9:54 AM  -  Mouse Genome Informatics
            Carol Bult, The Jackson Laboratory

10:06 AM -  Towards Personalized Genomic-Guided Cancer Immunotherapy
            Ion Mandoiu, University of Connecticut

10:18 AM -  Controlling genetic recombination: implications for genomic regulation
            Ken Paigen, The Jackson Laboratory

10:30 AM -  Window on a Microworld: Microfabricated Arrays with Control of the Microenvironment
            Leslie Shor, University of Connecticut

10:42 AM -  A Personalized Approach for Prescribing Exercise in Human Health and Disease
            Linda Pescatello, University of Connecticut

10:56 AM -  Insights into Lung Diseases and Aggressive Cancers
            Frank McKeon

11:08 AM -  Closing Remarks
            Interim Provost Mun Choi, University of Connecticut