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University of Massachusetts Medical School Research Retreat

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Oct 26th, 9:00 AM

## Agenda: 2020 University of Massachusetts Medical School Research Retreat

UMMS Research Retreat

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*UMass Graduate School of Biomedical Sciences*

*25<sup>th</sup> Annual Research  
Retreat*

**October 26-27, 2020**

# Monday, October 26, 2020

<p><b>9:00 am – 9:20 am</b></p>	<p align="center">~ <b>Welcome and Opening Remarks</b> ~            Dr. Terence R. Flotte  <i>Celia and Isaac Haidak Professor of Medical Education            Dean, Provost and Executive Deputy Chancellor and Chief Research Officer</i>            Dr. Michael F. Collins  <i>Chancellor and Professor, Population and Quantitative Health Sciences and Medicine            Senior Vice President for the Health Sciences</i>            Dr. Katherine Luzuriaga  <i>Professor, Molecular Medicine, Pediatrics, and Medicine            Director, UMass Center for Clinical and Translational Science            Vice Provost, Clinical and Translational Research</i></p>
<p><b>9:20 am – 10:25 am</b></p>	<p align="center"><b>New Faculty Talks</b>  <u>Moderator:</u>            Dr. Roger Davis  <i>Chair and Professor, Molecular Medicine</i></p>
<p>9:25 am – 9:45 am</p>	<p>“Multiplexing and demultiplexing with cerebral organoids for neurological diseases” - Dr. TengTing (Elaine) Lim, <i>Assistant Professor, Program in Bioinformatics and Integrative Biology and Molecular, Cell and Cancer Biology</i></p>
<p>9:45 am – 10:05 am</p>	<p>“Insulator dysfunction and epigenetic alterations as tumor drivers.”- Dr. William Flavahan, <i>Assistant Professor Molecular, Cell and Cancer Biology</i></p>
<p>10:05 am – 10:25 am</p>	<p>“Harnessing cellular senescence for cancer immunotherapy” - Dr. Marcus Ruscetti, <i>Assistant Professor Molecular, Cell and Cancer Biology</i></p>
<p><b>10:25 am – 10:40 am</b></p>	<p align="center"><b>BREAK</b></p>
<p><b>10:40 am – 11:45 am</b></p>	<p align="center"><b>New Faculty Talks</b>  <u>Moderator:</u>            Dr. Marian Walhout  <i>Professor, Program in Molecular Medicine and Co-Director, Program in Systems Biology</i></p>
<p>10:45 am – 11:05 am</p>	<p>“All hail our viral overloads - Traversing synaptic plasticity with transposons” - Dr. Travis Thomson, <i>Assistant Professor Neurobiology</i></p>
<p>11:05 am – 11:25 am</p>	<p>“Multiplex pooled in-vitro modeling for genetic studies” - Dr. Rigel Chan, <i>Assistant Professor Neurology</i></p>
<p>11:25 am – 11:45 am</p>	<p>“Heterogeneity and function of intestinal macrophages “ - Dr. Milena Bogunovic, <i>Associate Professor Pathology</i></p>
<p><b>11:45 am – 1:00 pm</b></p>	<p align="center"><b>LUNCH and Poster Session Preparations</b></p>
<p><b>1:00 pm – 2:00 pm</b></p>	<p align="center"><b>Virtual Poster Session #1 (see Poster Session agenda for presenter details)</b></p>
<p><b>2:05 pm – 2:55 pm</b></p>	<p align="center"><b>Student Talks</b>  <u>Moderator:</u>            Dr. Kendall L. Knight  <i>Associate Dean, Graduate School of Biomedical Sciences and Professor, Biochemistry and Molecular Pharmacology</i></p>
<p>2:10 pm – 2:25 pm</p>	<p>“Antigen specificity and cross reactivity in vaccine-mediated protection against cryptococcosis” - Maureen Hester, <i>Division of Infectious Disease and Immunology (Stu Levitz lab)</i></p>
<p>2:25 pm – 2:40 pm</p>	<p>“Investigating the genetics of social behavior in wolf-dog hybrids” - Xue Li, <i>Bioinformatics and Integrative Biology (Elinor Karlsson lab)</i></p>
<p>2:40 pm – 2:55 pm</p>	<p>“Heat stress disrupts piRNA biogenesis machinery” - Nicholas Rice, <i>Program in Molecular Medicine (Bill Theurkauf lab)</i></p>
<p><b>2:55 pm – 3:10 pm</b></p>	<p align="center"><b>BREAK</b></p>
<p><b>3:10 pm – 4:00 pm</b></p>	<p align="center"><b>Post-Doc Talks</b>  <u>Moderator:</u>            Dr. Mary Ellen Lane  <i>Dean, Graduate School of Biomedical Sciences and Professor, Neurobiology</i></p>
<p>3:15 pm – 3:30 pm</p>	<p>“FMRP loss alters the epigenetic landscape and alternative splicing of mRNAs in Fragile X Syndrome” - Sneha Shah, <i>Program in Molecular Medicine (Joel Richter lab)</i></p>
<p>3:30 pm – 3:45 pm</p>	<p>“CRISPR RNP-enhanced adipocyte “browning” as cell therapy for metabolic disease” - Emmanouela Tsagkaraki, <i>Program in Molecular Medicine (Michael Czech lab)</i></p>

3:45 pm – 4:00 pm	“NHR-49/PPAR- $\alpha$ and HLH-30/TFEB cooperate for <i>C. elegans</i> host defense via a flavin-containing monooxygenase “ - Khursheed Wani, <i>Laboratory of Comparative Immunology (Javier Irazoqui lab)</i>
4:00pm – 4:30pm	<b>Poster Session Preparation</b>
4:30 pm – 5:30 pm	<b>Virtual Poster Session #2 (see Poster Session agenda for presenter details)</b>
5:30 pm – 6:30 pm	<b>Virtual Poster Session #3 (see Poster Session agenda for presenter details)</b>

## Tuesday, October 27, 2020

8:45 am – 9:00 am	<p><b>Presentation: The Dan Mullen Awards for Best Posters</b>  Dr. Kendall L. Knight  <i>Associate Dean, Graduate School of Biomedical Sciences</i></p> <p>Dr. Mary Ellen Lane  <i>Dean, Graduate School of Biomedical Sciences</i></p>
9:00 am – 10:30 am	<p><b>New Faculty Talks</b>  <u>Moderator:</u>  Dr. Beth McCormick  <i>Vice-Chair and Professor, Microbiology and Physiological System</i></p>
9:10 am – 9:30 am	“Quantitative approach to understanding autonomous and collective deaths of microbial and mammalian cells” - Dr. Hyun Youk, <i>Associate Professor in the Program in Systems Biology</i>
9:30 am – 9:50 am	“Machine learning to decouple associations between microbiome, host immunology and clinical outcome” - Dr. Vanni Bucci, <i>Associate Professor Microbiology and Physiological Systems</i>
9:50 am – 10:10 am	“Single-molecule analysis of HIV-1 genomic RNA conformation and dynamics” - Dr. James Munro, <i>Associate Professor Microbiology and Physiological Systems</i>
10:10 am – 10:30 am	“Metabolic interactions within microbial communities” - Dr. Elizabeth Shank, <i>Associate Professor Program in Systems Biology and Microbiology and Physiological Systems</i>
10:30 am – 10:45 am	<b>BREAK</b>
10:45 am – 11:50 am	<p><b>New Faculty Talks</b>  <u>Moderator:</u>  Dr. Michael Green  <i>Chair and Professor, Molecular, Cell and Cancer Biology</i></p>
10:50 am – 11:10 am	“Macular Degeneration epidemiology: nature-nurture, lifestyle factors, genetic risk, and gene-environment interactions: clues to therapies” - Dr. Johanna Seddon, <i>Professor, Ophthalmology and Visual Sciences</i>
11:10 am – 11:30 am	“Neural markers of social engagement in the first year of life” - Dr. Sohye Kim, <i>Assistant Professor Psychiatry</i>
11:30 am – 11:50 am	"ORAN: A meta-modeling platform to drive real-life and online outbreak simulations" - Dr. Andres Colubri, <i>Assistant Professor Microbiology and Physiological Systems</i>
11:50 am – 12:55 pm	<p><b>COVID-19 Research</b>  <u>Moderator:</u>  Dr. Thoru Pederson  <i>Professor, Biochemistry and Molecular Pharmacology and Associate Vice Provost for Research</i></p>
11:55 am – 12:15 pm	“SARS-CoV-2 and Influenza-What's the difference and why do I care? “ - Dr. Robert Finberg, <i>Chair and Professor, Medicine</i>
12:15 pm - 12:35 pm	"Structural insights to antivirals against SARS-CoV-2” - Dr. Celia Schiffer, <i>Professor Biochemistry and Molecular Pharmacology</i>
12:35 pm – 12:55 pm	“Developing RNAi-based therapeutics for COVID-19 in five months” - Dr. Anastasia Khvorova, <i>Professor, RNA Therapeutics Institute</i>
12:55 pm – 1:00 pm	<p><b>~ Closing Remarks ~</b>  Dr. Terence R. Flotte  <i>Celia and Isaac Haidak Professor of Medical Education</i>  <i>Dean, Provost and Executive Deputy Chancellor and Chief Research Officer</i></p>