



Medical Scientist
Training Program

University of Massachusetts Medical School

16th Annual Physician-Scientist Research Retreat
March 4th and March 5th, 2021

UMassMed 16th Annual Physician-Scientist Research Retreat

Zoom Guide

Please take special note of important information described below for the research retreat.

1. Main Research Retreat Zoom link:

March 4th, 2021, 12:30pm – 6:00pm & March 5th, 2021, 1:00pm – 6:00pm

<https://umassmed.zoom.us/j/96380379307?pwd=Y0JmQyszNTREbG90SHFFWEVtTEJlOZz09>

Password: 584989

2. Mini-Symposia Zoom links:

March 4th, 2021: 4:00 – 4:55pm

All Mini-Symposia sessions will occur **concurrently** – feel free to jump from one topic to another during this hour!

Topic:	Zoom:
Cancer Biology	https://umassmed.zoom.us/j/93892711291?pwd=RGQrUFpWK000QjRuMFBidjg0V3luZz09 Password: cancerbio
Cellular & Molecular Mechanisms	https://umassmed.zoom.us/j/93221912161?pwd=bG1WKzB5aUxDMmd5eGZaTnd0Yk03dz09 Password: 847419
Clinical & Population Health	https://umassmed.zoom.us/j/95826064048?pwd=aDQ0d2thb3pSemlucEFCaWlhS3RoUT09 Password: 736580
Immunology & Infectious Disease	https://umassmed.zoom.us/j/96633369969?pwd=WHkwVEZlaWZkYWQ5Ym0xeEd5cXdXZz09 Password: 002408
Neurobiology/ Neuroscience	https://umassmed.zoom.us/j/92729149943?pwd=eWdaZVpIVy8rUnFPbXQzYTZlOjZz09 Password: 775211
RNA/CRISPR Research & Therapeutics	https://umassmed.zoom.us/j/97717867977?pwd=SFpQRVRHeVpiL2VoQU91dzhEMEk3UT09&from=addon Password: 455655

3. Trivia Social Zoom link:

March 4th, 2021, 7:00pm – 8:00pm

<https://umassmed.zoom.us/j/98116803627?pwd=R1hERlhWQzFkRWVJRlFSNUROZXFVOT09>

Password: 247182

UMassMed 16th Annual Physician-Scientist Research Retreat

Thursday, March 4th, 2021

<https://umassmed.zoom.us/j/96380379307?pwd=Y0JmQyszNTREbG90SHFFWEVtTEJOZz09>

Password: 584989

- 12:30 PM **Opening Remarks by Chancellor Michael F. Collins, MD**
- 12:45 PM **Program Remarks by MD/PhD Program Director Dr. Silvia Corvera, MD**
- 1:00 PM **Basic & Translational Science Keynote Address**
Dr. William Ramses Bishai, MD, PhD | Johns Hopkins University
- 2:00 PM **UMMS Faculty Flash Talks**
Dr. Megan Orzali, PhD | Medicine
"Regulation of Cutaneous Antiviral Immunity"
Dr. Sarah Forrester, PhD | Population and Quantitative Health Sciences
"Health Equity Research Nationally and at Home"
Dr. Robert Brown, MD, DPhil | Neurology
- 3:10 PM **Break**
- 3:25 PM **MD/PhD Candidate Flash Talks**
Oghomwen Igiesuorobo, *"A Novel Mouse Model of Slow-Wave-Sleep Enhancement in Aging and Alzheimer's Disease"*
Grace Masters, *"Improving Access to Care for Individuals with Bipolar Disorder in the Perinatal Period"*
- 3:45 PM **Break**
- 4:00 PM **Mini-Symposia**
Please refer to the *"Zoom Guide"* for **specific Zoom links** to each session.
Cancer Biology
Cellular & Molecular Mechanisms
Clinical & Population Health
Immunology & Infectious Disease
Neurobiology/Neuroscience
RNA/CRISPR Research & Therapeutics
- 5:00 PM **Alumni & Faculty Breakout Sessions**
- 7:00 PM **Applicant/Student Trivia Social**
<https://umassmed.zoom.us/j/98116803627?pwd=R1hERlhWQzFkRWVJRlFSNUROZXFVQT09>
Password: 247182

UMassMed 16th Annual Physician-Scientist Research Retreat

Friday, March 5th, 2021

<https://umassmed.zoom.us/j/96380379307?pwd=Y0JmQyszNTREbG90SHFFWEVtTEJlOZz09>

Password: 584989

- 1:00 PM **Opening Remarks by Provost and Dean Terence Flotte, MD**
- 1:15 PM **Clinical & Population Health Keynote Address**
Dr. Alison Stuebe, MD, MSc | University of North Carolina
- 2:20 PM **UMMS Faculty Flash Talks**
Dr. Mark Johnson, MD, PhD | Neurological Surgery
"Genetics of Idiopathic Normal Pressure Hydrocephalus"
Dr. William Flavahan, PhD | Molecular, Cell and Cancer Biology
"Epigenetic Dysfunction as a Driver of Tumor Initiation and Progression"
- 3:00 PM **Break**
- 3:20 PM **MD/PhD Candidate Flash Talks**
Kevin Gao, *"STING Gain-of-Function in Radioresistant Cells Supports a Lymphocyte Dependent Auto-Inflammatory Lung Disease"*
Henry Pratt, *"The ENCODE Encyclopedia: a comprehensive atlas of non-coding regulatory elements in the human genome"*
- 3:40 PM **Break**
- 4:00 PM **Award Ceremony**
- 5:00 PM **Q&A with Applicants**

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Mini-Symposia: Cancer Biology

<https://umassmed.zoom.us/j/93892711291?pwd=RGQrUFpWK000QjRuMFBidjg0V3luZz09>

Password: cancerbio

Student Name

Abstract Title

Jane Chuprin *"Cancer modeling in Humanized Mice"*

Kevin O'Connor *"Modeling pediatric leukemogenesis and relapse"*

Mini-Symposia: Cellular & Molecular Mechanisms

<https://umassmed.zoom.us/j/93221912161?pwd=bG1WKzB5aUxDMmd5eGZaTnd0Yk03dz09>

Password: 847419

Student Name

Abstract Title

Abigail Smith *"MAP Kinase Signaling in Polycystic Kidney Disease"*

Alysia Bryll *"Chromatin dynamics and Transcriptional homeostasis"*

Alexander Baier *"Nucleosome dynamics"*

Rachel Stamateris *"Exploration of the intersection between cell cycle regulation and insulin signaling in maintaining beta cell mass and differentiation"*

Sookyung Kim *"Modulation of mitochondrial biogenesis and longevity by the Integrated Stress Response (ISR)"*

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Mini-Symposia: Clinical & Population Health

<https://umassmed.zoom.us/j/95826064048?pwd=aDQ0d2thb3pSemlucEFCaWlhS3RoUT09>

Password: 736580

Student Name

Abstract Title

Eric Ding

"Use of smart watches in the detection of atrial fibrillation"

Grace Masters

"Bipolar disorder in the perinatal period: Understanding gaps in care to improve outcomes"

Julie Hugunin

"Healthcare utilization in transition-age youth with serious mental illness"

Eric Romo

"The Influence of Spatial Proximity to Sterile Syringe Sources and Secondary Syringe Exchange on HCV Risk Among Rural People Who Inject Drugs"

Zach Dyer

"Outlining shadows of structural racism with better use of social determinants of health data"

Mini-Symposia: Immunology & Infectious Disease

<https://umassmed.zoom.us/j/96633369969?pwd=WHkwVEZlaWZkYWQ5Ym0xeEd5cXdXZz09>

Password: 002408

Student Name

Abstract Title

Samantha Tse

"Surveillance of pathogen-derived phenazine metabolites in intestinal immunity"

Kevin Gao

"STING Gain-of-Function in radioresistant cells supports a lymphocyte dependent auto-inflammatory lung disease"

Noah Silverstein

"Epigenetic inheritance, disease tolerance, and surviving pathogenic viral infections"

Katelyn McCann

"Interferon Gamma Mediated Macrophage Metabolic Reprogramming"

Michael Frisoli

"Identifying basic mechanisms of skin inflammation"

UMassMed 16th Annual Physician-Scientist Research Retreat

Mini-Symposia: Neurobiology/Neuroscience

<https://umassmed.zoom.us/j/92729149943?pwd=eWdaZVpJVy8rUnFPbXQzYTZTQXNjZz09>

Password: 775211

Student Name

Abstract Title

Philip Feinberg	<i>"Innate Immune Mechanisms Governing Excitatory/ Inhibitory Balance and Seizures in the Mouse Brain"</i>
Oghomwen Igiesuorobo	<i>"The Impact of Sleep Enhancement on Memory in Alzheimer's Disease and Aging"</i>
Amy Cheung	<i>"The role of neurexin in serotonin synaptic function and social behavior"</i>
Mohamad Nasrallah	<i>"Implications of FMRP Control of Ribosome Translocation"</i>
Erica Kwiatkowski	<i>"Characterizing circatidal rhythms of activity in a genetically-tractable amphipod"</i>
Nicholas Bolden	<i>"Investigating the Role of Regulated DAT Trafficking in DAergic Behaviors"</i>

Mini-Symposia: RNA/CRISPR Research & Therapeutics

<https://umassmed.zoom.us/j/97717867977?pwd=SFpQRVRHeVpiL2VoQU91dzhEMEk3UT09&from=addon>

Password: 455655

Student Name

Abstract Title

Chantal Ferguson	<i>"Tissue Specific Modulation of ApoE for Alzheimer Disease"</i>
Thomas Reimonn	<i>"Meta-analysis of chromatin accessibility experiments in the human brain"</i>

Acknowledgments

Thank you to Alicia Birtz and Anne Michelson for their invaluable support and efforts in planning
Second Look Day and the Research Retreat

Retreat Planning Committee

Nicholas Peterson, Jane Chuprin, Philip Feinberg, Jordan L. Smith, Jillian Belgrad, Grace Masters, Kevin
O'Connor, Abbi Smith, Samantha Tse

Program Leadership

Director: Dr. Silvia Corvera, MD

Associate Director: Dr. Jonathan Kay, MD