

Jacobs School of Medicine and Biomedical Sciences MD-PhD Program University at Buffalo

WELCOME Image: Construction of the second secon

saturday, october 26

HOSTED BY THE UNIVERSITY AT BUFFALO 955 MAIN ST, BUFFALO, NY

- 9:00am **REGISTRATION, POSTER SET-UP, & BREAKFAST** Active Learning, Room 1220
- 9:45am WELCOME REMARKS & INTRODUCTION Marc Halterman, MD, PhD, MD-PhD Program Director Mandy Cohen, MD, MPH, Director, US Centers for Disease Control and Prevention Dozoretz, Room 2220A
- 10:00am STUDENT TALKS Dozoretz, Room 2220A
- 11:00am BREAK
- 11:10am **BREAKOUT SESSION I** Various Rooms
- 12:10pm MENTORSHIP LUNCH Active Learning, Room 1220
- 1:10pm **POSTER SESSION & COFFEE** 2nd Floor Atrium
- 2:15pm **KEYNOTE SPEAKER** Dozoretz, Room 2220A

3:15pm BREAK

- 3:30pm **BREAKOUT SESSION II** Various Rooms
- 4:30pm **CLOSING REMARKS** Dozoretz, Room 2220A

A special thank you to our Planning Committee members:

- Peter Fiorica
- Kanita Chaudhry
- Elizabeth Lathrop
- Amra Mujcic

• Janie Park Christian Prechtl • Johanna Rajotte



Matthew Lesko

SUNY Upstate, Biomedical and Chemical Engineering Magnetically Actuated Shape Memory Polymer Scaffolds with Sequential Shape Memory

Catherine Beamish

University of Rochester, Toxicology Transcriptomic analysis identifies muscle-specific mitochondrial and vesicular transport genes as methylmercury toxicity targets in Drosophila

Hayley Chang

University of Rochester, Neuroscience Exploring the neurophysiologic and neuropathologic basis of visual deficits in a cystinosis mouse model

Olivia Laniak

SUNY Upstate, Microbiology and Immunology SIRT2 Inhibitor FLS-359 Leads to Reduction in HCMV Replication and Dissemination in Athymic Nude Hu-Skin Xenograft Mice Model

Nicholas Salgia

University at Buffalo, Immunology (Roswell Park) Unraveling the Paradoxical Immune Sensitivity of Sarcomatoid Renal Cell Carcinoma

Peter Fiorica

University at Buffalo, Genetics, Genomics, Bioinformatics DROSHA-related tumor predisposition: a new entity with risk for pineoblastoma and Wilms tumor

10:00 am Dozoretz Room 2220A







RESIDENCY: PSTP OR NON-PSTP

MEDICAL ALUMNI, ROOM 2213A



Rachel Simpson, MD, PhD '19 Research Pathway Fellow, Infectious Diseases University of Rochester

Peter Kim, MD, PhD Vice Chair – Research & Innovation Professor of Surgery, Department of Surgery University at Buffalo



Sangita Patel, MD, PhD '04 Assistant Professor, Department of Ophthalmology University at Buffalo

ADVOCACY AND PUBLIC POLICY AS A PHYSICIAN-SCIENTIST MEDICAL ALUMNI, ROOM 2213B



Nancy H. Nielsen MD '76, PhD Senior Associate Dean for Health Policy Clinical Professor of Medicine University at Buffalo

F30 PREPARATION DOZORETZ, ROOM 2220A



Laurie Read, PhD

Professor, Department of Microbiology and Immunology University at Buffalo



Margaret DeAngelis, MS, PhD Professor, Department of Ophthalmology University at Buffalo



Clayton Brady, M4 Department of Physiology and Biophysics University at Buffalo



Sarah Choi, G4

Department of Tumor Immunology, Roswell Park Comprehensive Cancer Center, University at Buffalo

11:10 am Various Rooms



1:10 pm 2nd Floor Atrium

1. Joseph Mauro

SUNY Upstate, Biochemistry & Molecular Biology The Impact of Protein Import Stress on Body Homeostasis

2. Nicholas Salgia

University at Buffalo, Immunology (Roswell Park) Unraveling the Paradoxical Immune Sensitivity of Sarcomatoid Renal Cell Carcinoma

3. Sanaea Bhagwagar

SUNY Upstate, Biochemistry and Molecular Biology

Mitochondrial Protein Import Stress Causes Vacuolar/Lysosomal Damage through Proteostatic Signaling Mechanisms

4. Jessica Crooker

SUNY Upstate, Microbiology & Immunology Characterization of circulating viral isolates of Powassan Virus Lineage II

5. Peter Fiorica

University at Buffalo, Genetics, Genomics, Bioinformatics

DROSHA-related tumor predisposition: a new entity with risk for pineoblastoma and Wilms tumor

6. Ali (Shervin) Razavi

SUNY Upstate, Neuroscience Appraisal of Gene Expression-Based Classifiers for Neuropsychiatric Disorders: A Meta-Regression

7. Hayley Chang

University of Rochester, Neuroscience

Exploring the neurophysiologic and neuropathologic basis of visual deficits in a cystinosis mouse model

8. Kevin Lin

SUNY Upstate, Biochemistry and Molecular Biology; Urology Determining the Role of ABI1 DNA Binding in Regulating AR Transcriptional Activity

9. Olivia Laniak

SUNY Upstate, Microbiology and Immunology SIRT2 Inhibitor FLS-359 Leads to Reduction in HCMV Replication and Dissemination

in Athymic Nude Hu-Skin Xenograft Mice Model

10. Adam Geber

University of Rochester, Microbiology & Immunology Characterizing Innate-like CD8+ T Cells in Early Life

11. Catherine Beamish

University of Rochester, Toxicology

Transcriptomic analysis identifies muscle-specific mitochondrial and vesicular transport genes as methylmercury toxicity targets in Drosophila

12. Levy Sominsky

University of Rochester, Pathology (Cell Biology of Disease)

Optimization of an In Vitro Model of Staphylococcal Abscess Communities to Study Bactericidal Mechanisms

13. Nicholas Brennan

SUNY Upstate, Biochemistry & Molecular Biology

Ant1 overexpression induces progressive muscle wasting independent of mitochondrial bioenergetic defect.

14. Arnav Rana

SUNY Upstate, Biochemistry and Molecular Biology

Chronic Stress Signaling via the Integrated Stress Response Does Not Harm the Heart

15. Matthew Lesko

SUNY Upstate, Biomedical and Chemical Engineering

Magnetically Actuated Shape Memory Polymer Scaffolds with Sequential Shape Memory

16. Jonathan Chung

SUNY Upstate, Biochemistry

Rearming the Guardian: p53 Reactivation Enhances Pol I Inhibition in p53 Mutant Breast Cancer

17. Lauren Beryl Guterman

University at Buffalo, Microbiology & Immunology Harnessing microbially derived metabolites in the urinary tract to prevent infection induced catheter encrustation

KEYNOTE SPEAKER





Wendy Chung, MD, PhD Chief, Department of Pediatrics Boston Children's Hospital Professor of Pediatrics Harvard Medical School

"From N of 1 to population health for rare genetic diseases."

Wendy Chung, MD, PhD is a clinical and molecular geneticist and the Chief of the Department of Pediatrics at Boston Children's Hospital and Harvard Medical School. Dr. Chung directs NIH funded research programs in human genetics of pulmonary hypertension, breast cancer, obesity, diabetes, autism, birth defects including congenital diaphragmatic hernia and congenital heart disease.

Dr. Chung is a national leader in the ethical, legal, and social implications of genomics. She was the recipient of the Rare Impact Award from the National Organization of Rare Disorders, and is a member of the National Academy of Medicine and the American Academy of Physicians. Dr. Chung received her B.A. in biochemistry from Cornell University, her M.D. from Cornell University Medical College, and her Ph.D. from The Rockefeller University in genetics.

In Memoriam: Robert N. Taylor, MD, PhD

The MD-PhD Program at the Jacobs School of Medicine and Biomedical Sciences is deeply saddened by the loss of Dr. Robert N. Taylor, our former director, who passed away on January 22 at the age of 71. Though his time as our program's leader was brief, his impact was profound. Dr. Taylor's advocacy for our trainees and his vision for the program left a lasting imprint that continues to inspire us.

A distinguished physician-scientist, educator, and clinician, Dr. Taylor's career spanned over four decades. He was among the world's leading researchers in endometriosis and reproductive health, focusing on the molecular and cell biology of the human uterus and placenta. His laboratory, continuously funded by the NIH since 1987, made significant contributions to understanding human endometrial function, uterine biology, and embryonic implantation. His recent work on the relationship between endometriosis lesions and pain holds promise for advancing therapeutic options for women suffering from this chronic condition. In addition to authoring hundreds of scientific papers and several books, he was a frequent national and international lecturer and received numerous awards, including the American Society for Reproductive Medicine Distinguished Researcher Award.

Before joining the Jacobs School in 2020, Dr. Taylor led the MD-PhD program at the University of Utah School of Medicine and held leadership roles in prestigious organizations, including the American Board of Obstetrics and

Gynecology and the Society for Reproductive Investigation. He was also an honorary secretary of the World Endometriosis Society and served on the NIH Reproductive Scientist Development Program.

Beyond his professional achievements, Dr. Taylor was cherished by his students and colleagues. His warmth, kindness, and dedication to nurturing the next generation of physician-scientists were hallmarks of his tenure with us. We are grateful for his leadership and the legacy he has left on our program and trainees.





FINDING MENTORS: PHD ADVISORS AND BEYOND DOZORETZ, ROOM 2220A



Marc Halterman, MD, PhD Senior Associate Dean and Executive Director, Office of Research MD-PhD Program Director University at Buffalo



Suzanne G. Laychock, PhD Associate Dean for Faculty Affairs Former MD-PhD Program Director University at Buffalo

APPROACHES TO LAB MANAGEMENT MEDICAL ALUMNI, ROOM 2213B



John C. Hu, MD, PhD '17 Clinical Assistant Professor, Department of Medicine University at Buffalo



Jennifer Lang, MD '09 Associate Professor, Department of Medicine University at Buffalo

WORK-LIFE BALANCE MEDICAL ALUMNI, ROOM 2213A



Lucy Mastrandrea, MD, PhD '99 Professor; Division Chief, Endocrinology/Diabetes Department of Pediatrics

MD-PhD Associate Program Director

University at Buffalo

Meghan Higman, MD, PhD '95 Assistant Professor, Department of Pediatric Oncology Roswell Park Comprehensive Cancer Center Clinical Assistant Professor, Department of Pediatrics University at Buffalo



John H. Lillvis, MD, PhD Clinical Assistant Professor, Department of Ophthalmology University at Buffalo

3:30 pm Various Rooms

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I heatre District