



Department of Biochemistry & Biophysics 2022 Fall Seminar Series

Seminars to be held virtually, hybrid, or in-person in K-307 (3-6408) select Wednesdays at 2 pm unless otherwise noted. Please see emailed seminar announcements for confirmation of room numbers or Zoom links. Details are also available on the Department webpage: <https://www.urmc.rochester.edu/biochemistry-biophysics/events.aspx>

- September 7**
CANCELLED **Melanie Ohi, PhD**, Rowena G. Matthews Collegiate Professor in the Life Sciences; Research Professor, University of Michigan Life Sciences Institute; Professor, Department of Cell and Developmental Biology, University of Michigan Medical School, Ann Arbor, MI
“From Blobs to Atoms and Back to Blobs - Embracing the Full Power of 3D Electron Microscopy”
Host: Dr. Clara Kielkopf
- September 14**
K-207 (2-6408) **Steve L. Bonilla, PhD**, HHMI Hanna H. Gray Postdoctoral Fellow, Department of Biochemistry and Molecular Genetics, University of Colorado Anschutz Medical Campus, Denver, CO
“Using Cryo-EM to Solve the Structures of Conformationally Dynamic Viral RNAs and Their Complexes with Host Proteins”
Hosts: Dr. Eric Wagner and Dr. Lynne Maquat
- September 21** **Pilar Cossio, PhD**, Research Scientist and Project Leader, CCM joint with CCB, Flatiron Institute, Simons Foundation, New York, NY
“Free-Energy Profiles from CryoEM Particles”
Host: Dr. Ignacio Franco (co-sponsored by the Bioinformatics Cluster)
- September 28** **Thomas A. Cooper, MD**, S. Donald Greenberg and R. Clarence and Irene H. Fulbright Professor, Department of Pathology and Immunology, Baylor College of Medicine, Houston, TX
“Mechanistic Insights Using Expanded CUG Repeat RNA to Model Cardiac Features of Myotonic Dystrophy Type 1 in Mice”
Host: Dr. Peng Yao (co-sponsored by the RNA Structure and Function Cluster)
- October 5** **Robert T. Batey, PhD**, Professor; Associate Chair for Graduate Affairs, Department of Biochemistry, University of Colorado at Boulder, Boulder, CO
“How Small Molecules Regulate mRNA Expression”
Hosts: Dr. Joseph Wedekind and Dr. Doug Anderson (co-sponsored by the Protein Synthesis Cluster and the RNA Structure and Function Cluster)
- October 12** **Kathy Fange Liu, PhD**, Assistant Professor, Department of Biochemistry and Biophysics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA
“Catalytic and Non-Catalytic Functions of an 18S rRNA Methyltransferase in Leukemia”
Host: Dr. Eric Phizicky (co-sponsored by the RNA Structure and Function Cluster)
- October 19** **Yury Polikanov, PhD**, Associate Professor, Department of Biological Sciences, University of Chicago, IL
“Insights into the Ribosome Function from the Structures of Non-Arrested Ribosome Nascent Chain Complexes”
Host: Dr. Dmitri Ermolenko (co-sponsored by the Protein Synthesis Cluster and the RNA Structure and Function Cluster)
- October 26**
VIRTUAL **Sebastian M. Fica, PhD**, Wellcome Trust and Royal Society Sir Henry Dale Fellow, Department of Biochemistry, University of Oxford, England, United Kingdom
“Making mRNA - A Tale of Two Spliceosomes”
Host: Dr. Clara Kielkopf (co-sponsored by the RNA Structure and Function Cluster)
- November 2** **Kevin P. Campbell, PhD**, Professor, Department of Molecular Physiology and Biophysics and of Neurology, University of Iowa, Iowa City, IA
“Structural Basis of Dystroglycan Function and the Pathogenesis of Muscular Dystrophy”
Host: Dr. Mark Dumont
- November 3**
THURSDAY
Adolph Lower
Aud (1-7619) **Eric Westhof, PhD**, Architecture et Réactivité de l'ARN, Institut de Biologie Moléculaire et Cellulaire du CNRS, Université de Strasbourg, Strasbourg, France
“tRNA Modifications in Ribosomal Decoding”
Host: Dr. Eric Phizicky (co-sponsored by the RNA Structure and Function Cluster and the Bioinformatics Cluster)
- November 9 & 10**
Class of '62 Aud
(G-9425) ***SPECIAL EVENT* NIH T32 CBMS Minisymposium**
Featuring the T32 External Advisory Committee for the NIH T32 in Cellular, Biochemical and Molecular Sciences (CBMS)
★ **Anita Corbett, PhD**, Samuel C. Dobbs Professor, Department of Biology, Emory University, Atlanta, GA
★ **Kimberly Mowry, PhD**, Robin Chemers Neustein Professor of Biomedicine; Chair, Department of Molecular Biology, Cell Biology and Biochemistry, Brown University, Providence, RI
★ **Karin Musier-Forsyth, PhD**, Professor and Ohio Eminent Scholar, Department of Chemistry and Biochemistry, The Ohio State University, Columbus, OH
Hosts: Dr. Lynne Maquat (PI), and Dr. Jeff Hayes (Co-PI); co-sponsored by the NIH T32 Training Grant in Cellular, Biochemical and Molecular Sciences
- November 16** **Brian D. Strahl, PhD**, Oliver Smithies Investigator; Professor & Interim Chair; Faculty Director, Peptide Synthesis and Arraying Facility, Department of Biochemistry and Biophysics, University of North Carolina School of Medicine, Chapel Hill, NC
“Transcriptional Control by Histone Readers and Writers”
Host: Dr. Jeffrey Hayes
- November 30** **Isabel Aznarez, PhD**, Co-Founder and Group VP, Discovery Research, Stoke Therapeutics, Inc., Bedford, MA
“A Novel RNA-Based Approach to Treat Genetic Diseases”
Hosts: Dr. Lynne Maquat and Dr. John Lueck (co-sponsored by Graduate Women in Science)
- December 7** **Devrim Acehan, PhD**, Research Scientist, Hauptman-Woodward Medical Research Institute, Buffalo, NY
“Cryo Electron Microscopy at the Hauptman-Woodward Institute”
Host: Clara Kielkopf