

[Winter 2024: As the Ribonucleotide Turns: How Cells Exert Control, Ride Out Genomic Instability, and Gain Immunity](#)

Tuesday, January 30, 2024

- Lyle Simmons, Ph.D., Professor, Molecular, Cellular, and Developmental Biology, University of Michigan
- Introductory Lecture: "Genome Instability Caused by Persistent RNA-DNA Hybrid Formation"
- 3:00 p.m., Med Sci 2 - West Lecture Hall

Tuesday, February 20, 2024

- Francesca Storici, Ph.D., Professor and Associate Chair for Graduate Education, School of Biological Sciences, Georgia Institute of Technology
- "RNA's Transformative Impact: Shaping DNA Metabolism in the Genome"
- 3:00 p.m., Med Sci 2 - West Lecture Hall

Tuesday, March 19, 2024

- Hai Dang Nguyen, Ph.D., Assistant Professor, Department of Pharmacology, University of Minnesota
- "Understanding and Targeting R-Loop Response Pathways in Cancers"
- 3:00 p.m., Med Sci 2 - West Lecture Hall

Tuesday, April 2, 2024

- Nicholas Ingolia, Ph.D., Associate Professor, Department of Molecular and Cell Biology, University of California, Berkeley
- "Global Analysis of the Networks Controlling mRNA Translation and Decay"
- 3:00 p.m., Med Sci 1 - 3330 Auditorium

Tuesday, April 9, 2024

- Wendy V. Gilbert, Ph.D., Professor of Molecular Biophysics and Biochemistry, School of Medicine, Yale University
- "Decoding the Untranslated to Engineer Next-Generation mRNA Medicines"
- 3:00 p.m., Med Sci 2 - West Lecture Hall

[Fall 2024: AI in Action: Applications in Cellular and Molecular Biology](#)

Tuesday, October 1, 2024

- Sriram Chandrasekaran, Ph.D., Associate Professor, Biomedical Engineering, University of Michigan
- Introductory Lecture: "Drug Discovery Using Systems Biology and Mechanistic AI"
- 3:00 p.m.
- South Lecture Hall, Med Sci II

Tuesday, October 8, 2024

- Zijun (Frank) Zhang, Ph.D., Assistant Professor, Division of Artificial Intelligence in Medicine, Cedars-Sinai Medical Center
- "Fine-Tuning Language Models for Genome Understanding"
- 3:00 p.m.
- South Lecture Hall, Med Sci II

Tuesday, October 22, 2024

- David Shackelford, Ph.D., Professor, Division of Pulmonary and Critical Care Medicine, University of California Los Angeles
- "Spatial Mapping of Organelle Architecture and Communication in Lung Cancer"
- 3:00 p.m.
- South Lecture Hall, Med Sci II

Tuesday, November 12, 2024

- Gaudenz Danuser, Ph.D., Professor, Department of Bioinformatics, UT Southwestern Medical Center
- "Learning Cellular Mechanisms by Interpretable AI"
- 3:00 p.m.
- South Lecture Hall, Med Sci II

Tuesday, November 19, 2024

- Feng Guo, Ph.D., Associate Professor of Intelligent Systems Engineering, Indiana University Bloomington
- "Intersection of Brain Organoid, AI, and Medicine"
- 3:00 p.m.

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- South Lecture Hall, Med Sci II