

Institute for Quantitative Biomedicine (IQB)

SEMINAR PROGRAM



Last Updated: 02/20/24

SPRING 2024

Wednesdays, 12:00 PM

In Person: **Proteomics Building, Room 120**

Zoom: go.rutgers.edu/7tvb9kkr



January 24

Erik Lindahl

Stockholm University

Allosteric modulation & agonist selectivity in ligand-gated ion channels through integrative structural biology



January 31

Addison Smith

OpenEye, Cadence Molecular Sciences

Protein preparation in the cloud and expanding MMDS to all protein targets in the PDB



David Wych

OpenEye, Cadence Molecular Sciences

Modeling of protein structural heterogeneity in X-ray Crystallography and CryoEM



February 14

Anne Simon

University of Maryland

Novel features of umbravirus-like viruses: Revelations about RNA virus transcriptomes, genome structure, movement, and -1



February 21

Jerelle Joseph

Princeton University

Computational approaches for understanding and engineering biomolecular condensates

**POSTPONED
New Date TBA**



February 28

Dimitris Metaxas

Rutgers University

Genetic mutation and biological pathway prediction from whole slide images using deep learning for cancer detection and diagnosis



March 20

Harald Schwalbe

University of Frankfurt/Instruct-ERIC

NMR contributions to RNA Structural Biology and its application to studies of viral genomes (e.g., SARS-CoV-2)



March 27

Tanja Kortemme

University of California San Francisco

De novo proteins: expanding sequence & structure space, conformational switches, and synthetic cellular signaling



April 10

Philip Romero

University of Wisconsin-Madison

Machine learning to navigate sequence-function landscapes for protein engineering



April 17

John Jimah

Princeton University

Structural biology of membrane architecture and remodeling



April 24

Oriana Fisher

Lehigh University

Bracing bacteria for copper acquisition



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RCSB Protein Data Bank
(RCSB PDB)
rcsb.org

More information: iqb.rutgers.edu/seminars

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