# Institute for Quantitative Biomedicine (IQB) SEMINAR PROGRAM



## **SPRING 2024**

## Wednesdays, 12:00 PM

In Person: Proteomics Building, Room 120 Zoom: go.rutgers.edu/7tvb9kkr



#### January 24

Erik Lindahl Stockholm University

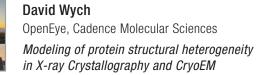
Allosteric modulation & agonist selectivity in ligand-gated ion channels through integrative structural biology



#### **January 31**

Addison Smith **OpenEye**, Cadence Molecular Sciences

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





#### 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

POSTPONED **New Date TBA** 

Jerelle Joseph Princeton University

Computational approaches for understanding and engineering biomolecular condensates





**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





Institute for Quantitative Biomedicine (IQB) iqb.rutgers.edu

RCSB Protein Data Bank (RCSB PDB) rcsb.org

#### More information: igb.rutgers.edu/seminars

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