

# Institute for Quantitative Biomedicine (IQB)

# SEMINAR PROGRAM



Last Updated: 01/17/25

## SPRING 2025

**Wednesdays, 12:00 PM**

**In Person: Proteomics Building, Room 120 • Zoom: [go.rutgers.edu/gvyyc2xu](https://go.rutgers.edu/gvyyc2xu)**



**January 29**

**Tanja Kortemme**

University of California San Francisco

*De novo Proteins: Expanding sequence & structure space, conformational switches, and synthetic cellular signaling*



**February 12**

**Joseph Marcotrigiano**

National Institutes of Health (NIAID)

*Structure of Apolipoprotein B100 Bound to the Low-density Lipoprotein Receptor: How bad cholesterol is removed*



**February 19**

**Syed Saif Hasan**

University of Maryland School of Medicine

*Unveiling the Structural and Cellular Secrets of SARS-CoV-2 Spike Protein Trafficking in Infection and Vaccination*



**February 26**

**Mike Rout**

Rockefeller University

*A Tour of the Pore: Structural and functional mapping of the nuclear pore complex*



**March 19**

**Edward Egelman**

University of Virginia

*Using Cryo-EM to Understand Evolution*



**March 26**

**Andrew Santiago-Frangos**

University of Pennsylvania

*How DNA Quaternary Structures Regulate CRISPR Adaptive Immunity*



**April 9**

**Joel Freundlich**

Rutgers University-NJMS

*Platforms in Computation, Chemistry, and Biology for Pursuits in Chemical Biology & Drug Discovery*



**April 16**

**Vasant Honavar**

Pennsylvania State University

*3M-Diffusion: Latent multi-modal diffusion for language-guided molecular structure generation*

More information:  
[iqb.rutgers.edu/seminars](https://iqb.rutgers.edu/seminars)

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Institute for  
Quantitative Biomedicine

In collaboration with the Rutgers Artificial  
Intelligence and Data Science (RAD) Collaboratory

[iqb.rutgers.edu](https://iqb.rutgers.edu)

RCSB PDB  
PROTEIN DATA BANK

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