RUTGERS HEALTH
New Jersey Medical School

NJMS Cryo-EM Symposium
ICPH Building Auditorium
225 Warren Street, Newark, NJ
November 1, 2024

8:00 – 9:00 Registration and Breakfast

9:00 – 9:10 Opening Remarks – William Gause (Senior Associate Dean for Research)

9:10 – 9:20 Remarks – Michael Zwick (Senior Vice President for Research)

Session 1 – Moderator: Alex Wei

9:20 – 9:45 John Jimah (Princeton University)
Structural biology of membrane architecture and remodeling

9:45 – 10:10 Chi-Min Ho (Columbia University)
Title TBA

10:10 – 10:45 Gira Bhabha (Johns Hopkins University)
Structural cell biology of a minimal eukaryotic pathogen

10:45 – 11:15 Coffee Break

11:00 – 11:15 Exhibitor Presentation: Nanotemper – Prometheus PANTA

Session 2 – Moderator: Jason Kaelber

11:15 – 11:40 Francesca Vallese (CUNY ASRC)
Insights into human erythrocytes: Ankyrin-1 complex architecture and its role in CO_2 transport

11:40 – 12:05 William Rice (New York University)
Considerations for high-resolution Cryo-EM imaging: experience at NYU Langone

12:05 – 12:40 Jeffrey Kieft (NYSBC)
Using cryoEM to push the boundaries of RNA structural studies

12:40 – 13:45 Lunch

13:30 – 13:45 Exhibitor Presentation: Thermo Fisher Scientific – Broadening Cryo-EM access to a larger scientific community

Session 3 – Moderator: Matthew Neiditch

13:45 – 14:10 Jason Kaelber (Rutgers University)
Cryo-EM for pathogen discovery and diagnostics

14:10 – 14:35 Vasileios Petrou (Rutgers NJMS)
The Tundra Cryo-TEM at Rutgers NJMS: A year of operation

14:35 – 15:00 Arkadiusz Kulczyk (Rutgers University)
Cryo-EM structure of the laminin polymer node reveals the molecular basis of laminin polymerization and LN-lamininopathies

15:00 – 15:25 Wei Dai (Rutgers University)
Molecular landscape of the fungal plasma membrane and implications for antifungal action

15:25 – 16:00 Coffee Break

15:45 – 16:00 Exhibitor Presentation: SPT Labtech – Chameleon

Session 4 – Moderator: Vasileios Petrou

16:00 – 17:00 Thomas Walz (Rockefeller University)
Cryo-EM studies of membrane proteins in nanodiscs

17:00 – 19:00 Reception