

# 

# 

# 7th Semi-Annual

# New England Cryo-EM Symposium

**November 16-17, 2021**

**12:30-5:00 PM | Virtual**

**Tuesday, November 16, 2021**

|  |  |
| --- | --- |
| **12:30 pm – 12:40 pm** | **~ Welcome and Opening Remarks ~**  Nikolaus Grigorieff***,*** *UMass Chan Medical School* |
| **12:40 pm – 2:30 pm** | ***Session 1***  Moderator:  Luke Chao, *Harvard Medical School* |
| 12:45 pm – 1:05 pm | Sara Kathrin Goetz, *European Molecular Biology Laboratory*  *"Towards high-throughput in-cell cryo-ET: new tools for automated sample preparations and data mining”* |
| 1:05 pm – 1:25 pm | Shiwei Zhu, *Yale School of Medicine*  *“Capturing Three-Dimensional Structures of Human Antimicrobial Immune Proteins in Action”* |
| 1:25 pm – 1:45 pm | Anthony Schuller, *Massachusetts Institute of Technology*  *"Context matters: The Cellular Environment Shapes the Nuclear Pore Complex Architecture"* |
| 1:45 pm – 2:15 pm | Breakout Room: Sessions with Speakers |
| **2:15 pm – 2:30 pm** | **BREAK** |
| **2:30 pm – 3:20 pm** | ***Session 2***  Moderator:  Chen Xu, *UMass Chan Medical School* |
| 2:35 pm – 2:50 pm | Drew Griffin, *Gatan*  *“Maximizing Throughput and Data quality with the BioContinuum HD”* |
| 2:50 pm – 3:05 pm | Aubrey Funke, *ZEISS Group*  *“The ZEISS Correlative Cryo Workflow: Your Solution for TEM Lamella Preparation and Volume Imaging”* |
| 3:05 pm – 3:20 pm | Breakout Room: Sessions with Sponsors |
| **3:20 pm – 5:00 pm** | ***Session 3***  Moderator:  Bronwyn Lucas, *UMass Chan Medical School* |
| 3:25 pm – 3:45 pm | Judy Huang, *UMass Chan Medical School*  *"Quantitative Structural Analysis of Influenza A Virus by Cryo-Electron Tomography and Convolutional Neural Networks"* |
| 3:45 pm – 4:05 pm | Shujun Cai, *Yale School of Medicine*  *“Cryo-electron Tomography of a Parkinson’s Disease-Linked Lipid-Transfer Protein in Situ”* |
| 4:05 pm – 4:25 pm | Alex de Marco, *Monash University*  *“Pushing the Efficiency for in Situ CryoEM”* |
| 4:25 pm – 4:55 pm | Breakout Room: Sessions with Speakers |
| 4:55 pm – 5:00 pm | **~ Closing Remarks ~** |

**Wednesday, November 17, 2021**

|  |  |
| --- | --- |
| **12:30 pm – 12:40 pm** | **Introduction**  Brian Kelch, *UMass Chan Medical School* |
| **12:40 pm – 2:20 pm** | ***Session 4***  Moderator:  Chuck Sindelar, *Yale School of Medicine* |
| 12:40 pm – 1:30 pm | Lightning Talks  Paula Navarro, *Harvard*  *“Cell wall Synthesis and Remodeling Dynamics Determine Bacterial Division site Architecture and cell Shape”*  Yangqi Gu, *Yale*  *“Structure of Geobacter Pili Reveals Secretory Rather Than Nanowire Behavior”*  Wangbiao Guo, *Yale*  *“In Situ 3D Imaging Combined with FIB-SEM and Cryo-FIB of Subcellular Architecture in Chlorella Pyrenoidosa”*  Xingchen Liu, *UMass Chan Medical School*  *“Investigating the Mechanism of Eukaryotic Sliding Clamp Loaders”*  Claudio Morales-Perez, *Harvard*  *“Data Analysis to Differentiate Multiple Species in the Sample”*  Qiu-Xing Jiang, *University of Florida*  *“Cryo-EM Structure-Based Selection of Computed Poses for Designing High-Potency Chemical Inhibitors of Human PRMT5:MEP50 Complex”* |
| 1:30 pm – 2:00 pm | Thunder Discussions |
| **2:00 pm – 2:20 pm** | **BREAK** |
| **2:20 pm – 3:10 pm** | ***Session 5***  Moderator:  Chen Xu, *UMass Chan Medical School* |
| 2:25 pm – 2:40 pm | Natalia de Val, *ThermoFisher*  *“Cryo-EM, a Powerful Tool for Understanding Structure”* |
| 2:40 pm – 2:55 pm | Jaap Brink, *JEOL*  *“CRYO ARM Series Electron Cryo-microscopes for Structural Analysis”* |
| **2:55 pm – 3:10 pm** | Breakout Session with Sponsors |
| **3:10 pm – 4:30 pm** | ***Session 6***  Moderator:  Christine Carbone, *UMass Chan Medical School* |
| 3:15 pm – 3:30 pm | Johannes Elferich, *UMass Chan Medical School*  *“High-Throughput In-Situ Cryo-EM of Hematopoietic Differentiation”* |
| 3:30 pm – 3:45 pm | Simon Jenni, *Harvard Medical School*  *“Reconstruction of the Vesicular Stomatitis Bullet-Shaped Virus”* |
| 3:45 pm – 4:00 pm | Elizabeth Villa, *University of California, San Diego*  *“Opening Windows into the Cell: Bringing Structure into Cell Biology using Cryo-Electron Tomography”* |
| 4:00 pm – 4:30 pm | Breakout Sessions with Speakers |
| **4:30 pm – 5:00 pm** | **~ Closing Remarks ~** |

**Thank you to our Sponsors!**

**Logo

Description automatically generated with medium confidence**

**Logo, company name

Description automatically generated**

**Logo

Description automatically generated**

A picture containing text, clipart, sign

Description automatically generated

Logo, company name

Description automatically generated