

Minisymposium on Computational Methods for Three-Dimensional Microscopy Reconstruction

Room 4102, Graduate Center of the City University of New York
365 Fifth Avenue (corner of 34th St), New York, NY 10016

November 8, 2010

Program

Program Chairs: Gabor Herman (CUNY Graduate Center)
Joachim Frank (Columbia University)

- 10:20-10:30 Gabor Herman (CUNY) -- Welcome
- 10:30-11:20 Robert Langlois (Columbia) -- Current State of Automated Particle Picking from a Machine Learning Perspective
- 11:20-12:10 Joanna Klukowska (CUNY) -- Distance-Dependent Blur Correction in 3D Electron and Soft X-ray Microscopy
- 12:10-13:40 Lunch break
- 13:40-14:30 Yaser Hashem (Columbia) -- Creating the First Atomic Model of Transfer-Messenger RNA in the Resume State Based on Cryo-EM Density Maps
- 14:30-15:20 Gabor Herman (CUNY) - Mathematical Trees and Graphs: What are They and How to Use Them In Structural Biology
- 15:20-15:40 Coffee break
- 15:40-16:30 Hstau Liao (Columbia) -- Classification of Projections in Single-Particle Electron Microscopy Using a Common-Lines Similarity Measure
- 16:30-17:20 Dimitris Giannakis (Courant Institute, NYU) - Structure and Dynamics from Manifold Symmetries of Image Formation
- 17:20-17:30 Joachim Frank (Columbia) -- Auf Wiedersehen

This meeting is open to all and there is no registration fee. If you intend to attend, then we request (but do not insist) that you send your name, affiliation and e-mail address to gabortherman@yahoo.com.