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.