

Fifth Annual Minisymposium on Computational Methods for Three-Dimensional Microscopy Reconstruction

August 7, 2014

City University of New York, Graduate Center, 365 Fifth Avenue, Room 4102

Organized by: **Gabor T. Herman (CUNY)** and **Joachim Frank (Columbia University)**

PROGRAM:

- 9:20 - 9:30 **Gabor T. Herman (CUNY):** Welcome
- 9:30 - 10:15 **Jose-Maria Carazo (CNB, Universidad Autonoma, Madrid):** *Soft X Tomography: Experimental PSF determination and focus series image combination*
- 10:15 - 11:00 **Les Butler (LSU):** *Comparison of single-shot and stepped-grating interferometry tomography*
- 11:00 - 11:15 *Coffee Break*
- 11:15 - 12:00 **Wen Li (Columbia University):** *Sampling the conformational trajectory of the ribosome*
- 12:00 - 12:45 **Peter Schwander (University of Wisconsin, Milwaukee):** *Capturing the continuous motions of the ribosome: A quantitative analysis*
- 12:45 - 2:15 *Lunch break*
- 2:15 - 3:00 **Amedee des Georges (Columbia University):** *Structural biochemistry: insights from a heterogeneous sample*
- 3:00 - 3:45 **Paul Gottlieb (CUNY):** *Cystovirus protein P7: structure, location, and occupancy in a viral capsid*
- 3:45 - 4:00 *Coffee Break*
- 4:00 - 4:45 **Younes Benkarroum (CUNY):** *The effect of basis functions on 3D-EM reconstructions*
- 4:45 - 5:30 **Jose Miguel de la Rosa (CNB, Universidad Autonoma, Madrid):** *Scipion: Toward software integration, reproducibility and validation in EM image processing*
- 5:30 - 5:40 **Joachim Frank (Columbia University):** 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 Masgan Saidi <ms4597@columbia.edu>.