

**Quantitative Biology Bootcamp
Brandeis University**

January 26 (Saturday) and January 27 (Sunday), 2013
Heller G2 & G6

Please note: Buffet will be arranged in Heller G6

Saturday, January 26, 2013

- 8:45-9:15..... Breakfast (Heller G6)
9:15-9:25..... Welcome (Jeff Gelles, Jané Kondev)
9:25-10:25..... Faculty lecture (Niko Grigorieff): "A new generation of detectors for electron cryo-microscopy"
10:25-10:55..... Student-led discussion/Coffee (Heller G6)
10:55-11:55..... Alumnus lecture (Alvaro Sanchez, MIT): "Ecological and evolutionary dynamics of social
Microbial populations"
11:55-12:10..... Student-led discussion
12:10-1:10..... Lunch (Heller G6)
1:10-2:10..... Prize lecture I (Alexandra Deaconescu): "Seeing" Biological Polymers with X-Rays in Solution
Part I
2:10-2:25..... Student-led discussion
2:25-3:25..... First Annual QB SLAM competition
3:25-3:40..... Coffee Break (Heller G6)
3:40-4:40..... Keynote Lecture: Sanjoy Mahajan (Olin Institute of Technology): "When two equals one: The
power of approximation"
4:40-5:00..... Student-led discussion
5:30-7:30..... Dinner / Shoppers Café, 731 Moody Street, Waltham, MA.

Sunday, January 27, 2013

- 8:45-9:15Breakfast (Heller G6)
9:15-9:25Travel to (Farber Library Computer Classroom 101)
9:25-12:25 "What's in the black box" virtual experiment lab (10:30 Coffee, Farber Room 101A)
12:25-1:25Lunch (Heller G6)
1:25-2:25Virtual experiment lab presentations and discussion
2:25-3:25Prize lecture II (Alexandra Deaconescu): "Seeing" Biological Polymers with X-Rays in Solution
Part II
3:25-3:55Student led discussion/Coffee (Heller G6)
3:55-4:55Faculty lecture (Douglas Theobald): "Molecular convergence, saltation, and neofunctionalization:
The evolution of novel enzyme function viewed at atomic resolution."
4:55-5:15Student led discussion / Wrap up