

**QUANTITATIVE BIOLOGY BOOTCAMP**  
**BRANDEIS UNIVERSITY**  
**JANUARY 16 (SUNDAY) AND JANUARY 17 (MONDAY), 2011**  
[Heller School 163](#)

**Entrance via front door IRVING SCHNEIDER & FAMILY HELLER SCHOOL FOR SOCIAL POLICY & MANAGEMENT (newer Heller bldg) WILL BE OPEN FROM 8AM TO 5PM ON SUNDAY AND 8AM TO 5:15PM ON MONDAY (If NOT call x68500).**

BUFFET ARRANGED IN HELLER 144 (EXCEPT WHERE NOTED)

Sunday, January 16, 2011

8:45-9:15 ..... Breakfast  
9:15-9:25 ..... Welcome (Jeff Gelles, Jané Kondev)  
9:25-10:25..... Faculty Lecture: Steve Van Hooser  
*Imaging the brain under development using 2-photon microscopy and statistics*  
10:25-10:55..... Student-led Discussion (Axel Brilot) / Coffee  
10:55-11:55..... Prize Lecture (Adelajda Zorba)  
*Biology of HIV-1 Assembly*  
11:55-12:10..... Student-led Discussion (Matt Beverly)  
12:10-1:10..... Lunch  
1:10-2:10..... Faculty Lecture: Nelson Lau  
*Digital RNA metabolism: Using deep sequencing to quantitate gene expression and to study mechanism*  
2:10-2:25..... Student-led Discussion (Jeff Boucher)  
2:25-3:25..... Panel Discussion: Greg Petsko, Bruce Goode, Jané Kondev  
*Writing interdisciplinary papers. What to do. What not to do.*  
3:25-3:40..... Discussion (Jane' Kondev) / Coffee  
3:40-4:40..... Prize Lecture (Adelajda Zorba)  
*Structural Characterization of HIB-1 Assembly*  
4:40-4:55..... Student-led Discussion (Josué Alfaro)  
5:45-7:45..... Dinner: [Erawan of Siam](#)  
*Dinner including non-alcoholic beverages courtesy of the QB Program / strictly cash bar*

Monday, January 17, 2011

8:45-9:15..... Breakfast  
9:15-9:25..... travel to Goldfarb Computer Classroom (Mezzanine)  
9:25-12:25..... Computation Exercise (Paul Miller)  
*When Space Trumps Time: Modeling Dynamic Spatial Patterns with Matlab*  
10:30 ..... Coffee break **Robbins Study Room 225**  
12:25-1:25..... Lunch  
1:25-2:25..... Computational Exercise Presentations and Discussion (Paul Miller):  
*QB Challenge Presentations and Discussion*  
2:25-3:25..... Prize lecture (Adelajda Zorba)  
*Complex NMR Tutorial on Semi-Automatic Assignment of HIV-1 CTD Dimer*  
3:25-3:55..... Student-led Discussion (Matt Perkett) / Coffee  
3:55-4:55..... Faculty Lecture: Dan Oprian  
*Phototransduction, membrane proteins, and nanodiscs*  
4:55-5:15..... Student-led Discussion (Al Hamood) / Wrap up