

# Quantitative Biology Bootcamp

Brandeis University

January 12 (Thursday) and January 13 (Friday), 2012

Heller G2 & G6

## Thursday, January 12, 2012

8:45-9:15.....Breakfast

9:15-9:25.....Welcome (Jeff Gelles, Jane Kondev)

9:30-10:30.....Lecture (Jeff Agar)

*"Mass Spectrometry at the Interface of Physics, Chemistry, and Biology"*

10:30-11:00....Student-led discussion (Baris Avsaroglu); Coffee

11:00-12:00...QB Prize Lecture I (Jeff Boucher)

*"How to raise the dead: The nuts and bolts of ancestral sequence reconstruction"*

12:00-12:15 ... Student-led discussion (Fan Zhao)

12:15-1:15.....Lunch

1:15-2:15.....Panel Discussion (Tim Sanchez, Axel Brilot, & Kelsey Anthony)

*"What I wish I knew when I was starting out as a grad student"*

2:15-2:45.....Coffee

3:00-5:00.....Computer Lab (Jeff Boucher) / Main Farber Computer Classroom

*"Ancestral sequence reconstruction lab"*

## Friday, January 13, 2012

9:00-9:30.....Breakfast

9:30-10:30.....QB Prize Lecture II (Jeff Boucher)

*"Ancestral sequence reconstruction: What is it good for?"*

10:30-11:00....Student-led discussion (Clarisse van der Feltz); Coffee

11:00-12:00...Bio-numbers: Computation Exercise (Jane Kondev)

12:00-1:30.....Lunch

1:30-2:30.....Lecture (Don Katz)

*"The neural basis of taste perception"*

2:30-3:00.....Student-led discussion (Vivekanand Pandey Vimal); Coffee

3:00-4:00.....Keynote Lecture (Jeff Gore, MIT)

*"Cooperation, cheating, and collapse in microbial populations"*

4:00-4:30.....Student-led discussion

5:00- .....Dinner / Shoppers Café, 731 Moody Street, Waltham, MA.