CELL DECISION MAKING WORKSHOP

June (9) 10-11 2013
Holiday Inn-Arlington 4610 N Fairfax Drive Arlington, VA (703) 243-9800

Workshop Sponsors: National Science Foundation and Rice University

Meeting Coordinator: Sara Bradley, 703-963-1326 cell, sara.bradley@comcast.net

SCHEDULE: SUNDAY, JUNE 9, 2013
5:00pm-8:00pm Evening Reception Holiday Inn: Lounge
Wine & Hors d’oeuvres

SCHEDULE: MONDAY, JUNE 10, 2013
8:00-9:00am BREAKFAST Holiday Inn: Junior Ballroom
Breakfast pastries, fruit & Beverages

Meeting Space: Holiday Inn/Junior Ballroom
INTERNET ACCESS CODE: 8057

9:00-9:20 Welcome and Opening Remarks: NSF and Herb Levine, Rice University
9:20-9:50 Talk: “Five Short Lessons from Bacteriophage Lambda”
Ido Golding, Baylor College of Medicine
Adam Palmer, Harvard University
10:20-10:50 Talk: “Mutation, Network, and the Regulation of Evolvability”
Susan Rosenberg, Baylor College of Medicine
10:50-11:20 Coffee Break
11:20-11:50 Talk: “Sex and Society meet Natural Selection”
Rosemary Redfield, University of British Columbia
11:50-12:20 Talk: “Mammalian Cell Fate Decisions on the Epigenetic Landscape: Rebellious Cells”
Sui Huang, Institute of Systems Biology
12:20-12:50 Talk: “Post-initation Regulatory Mechanisms for Bacillus Subtilis Differentiation Pathways”
Wade Winkler, University of Maryland
12:45-2:00 LUNCH Holiday Inn: Junior Ballroom
2:00-2:30 Talk: “Rethinking Bacterial Persistence” Herb Levine, Rice University
2:30-3:00 Talk: "Integrated Molecular and Cellular Approach to Bacterial Decision Making"
José Onuchic, Rice University
3:30-4:00 Talk: “Cellular Decision-Making in the Context of a Structured Community”
Gurol Suel, UC San Diego
4:00-4:30  Coffee Break
4:30-6:00  Open Discussion: Session Chairs, Gurol Suel, UC San Diego and David Sprinzak, Tel Aviv University

6:45pm  GROUP DINNER  Me Jana Restaurant (See below)

Monday Night Dinner Location: **Me Jana Restaurant**, 2300 Wilson Blvd, Arlington, VA
(Note: restaurant is physically at the back of this address facing the corner of Clarendon Blvd and N. Adams) 703 465-4440. 2 Miles from the Holiday Inn (Orange Line METRO stop COURTHOUSE).

NOTES: Transportation will depart for Me Jana outside the Holiday Inn entrance at 6:30pm. Cuisine is Middle Eastern served ‘family style’ (fish and vegetarian options included.)

**SCHEDULE: TUESDAY, JUNE 11, 2013**

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<th>Time</th>
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| 8:00-9:00am| **BREAKFAST**  
*Holiday Inn: Junior Ballroom*
Breakfast pastries, fruit & Beverages |
| 9:00-9:30  | Talk: “The Biophysics of Notch Signaling”  
David Sprinzak, Tel Aviv University |
| 9:30-10:00 | Talk: “The Threshold Level of the Sensor Histidine Kinase Governs Entry into Sporulation in Bacillus subtilis”  
Masaya Fujita, University of Houston |
| 10:00-10:30| Talk: “Design Principles of Bacillus subtilis Sporulation Decision Network”  
Oleg Igoshin, Rice University |
| 10:30-11:00| **Coffee Break** |
| 11:00-11:30| Talk: “Why So Many Feedbacks in Vibrio Harveyi Quorum Sensing”  
Ned Wingreen, Princeton University |
| 11:30-12:00| Talk: "The Operating Principles of Decision Circuits from Bacteria to Cancer"  
Eshel Ben-Jacob, Tel Aviv University/Rice University |
| 12:00-1:00 | **LUNCH**  
*Holiday Inn: Junior Ballroom* |
| 1:00-1:30  | Talk: “Evolvability as a constraint on biological mechanisms – a computational perspective.”  
Leslie Valiant, Harvard University |
| 1:30-2:00  | Talk: “Bacterial Quorum Sensing”  
Bonnie Bassler, Princeton University |
| 2:00-3:30  | Open Discussion: Session Chairs: Eshel Ben-Jacob, Tel Aviv University/Rice University and Ned Wingreen, Princeton University |
| 3:30pm     | Closing Remarks and Wrap Up: NSF and Herb Levine, Rice University |