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
		Propletant postrion fruit & Powerages

		Breakfast pastries, fruit & Beverages	
Meeting Spa	ce: 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		
9:50-10:20	Talk: "Optimization of Gene Expression Unlocks Latent Antibiotic Resistance" 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 Colum	bia	
11:50-12:20	Talk: "Mammalian Cell Fate Decisions on the Epige Sui Huang, Institute of Systems Biology	enetic Landscape: Rebellious Cells"	
12:20-12:50	Talk: "Post-initation Regulatory Mechanisms for Ba Pathways" Wade Winkler, University of Marylan		
12:45-2:00	LUNCH	Holiday Inn: Junior Ballroom	
2:00-2:30	Talk: "Rethinking Bacterial Persistence" Herb Levi	ne, Rice University	
2:30-3:00	Talk: "Integrated Molecular and Cellular Approach a José Onuchic, Rice University	to Bacterial Decision Making"	
3:30-4:00	Talk: "Cellular Decision-Making in the Context of a Gurol Suel, UC San Diego	Structured Community"	

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: <u>Me Jana Restaurant</u>, 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

8:00-9:00am	-	Holiday Inn: Junior Ballroom			
	Bre	akfast pastries, fruit & Beverages			
9:00-9:30	Talk: "The Biophysics of Notch Signaling" David Spring	zak, 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 Univesity				
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 mechanic perspective." Leslie Valiant, Harvard University	isms – a computational			
1:30-2:00	Talk: "Bacterial Quorum Sensing" Bonnie Bassler, Pri	ceton University			
2:00-3:30	Open Discussion: Session Chairs: Eshel Ben-Jacob, 1 University and Ned Wingreen, Princeton University	el Aviv University/Rice			
3:30pm	Closing Remarks and Wrap Up: NSF and Herb Levine	, Rice University			