The First Pearl Seiden International Meeting in Life-Sciences

"From Synthetic Biology to Discovery and Applications"

Program

December 9th, 2015

08:30-09:00	Welcome Reception
09:00-09:30	***Dedication Ceremony :*** *The Pearl Seiden International Meeting in LifeSciences* *(2015 - "From Synthetic Biology to Discovery and Applications")* *and* *The Mark and Diane Seiden International Workshop in Nanoscience and Nanotechnology* *(2016 – "Quantum Science Matter & Engineering")*
09:30-10:15	Adam Arkin- Keynote speaker University of California – Berkley *High-Throughput Genetics for Discovering and Designing Complex Phenotypes*
10:15-10:30	Break
10:30-11:00	Yaakov Benenson ETH Zurich *Biomolecular Computing Systems: From Concepts to Applications*
11:00-11:30	Cynthia Collins Rensselaer Polytechnic Institute *Engineering Communication and Collaboration in Synthetic Microbial Consortia*
11:30-12:00	Uri Alon Weizmann Institute of Science *Evolutionary Tradeoffs and the Geometry of Biological Shape Space*
12:00-13:30	Lunch
13:30-14:00	Wenying Shou Fred Hutchinson Cancer Research Center *The Survival of the Most Cooperative: Insights from Biological and Mathematical Systems*
14:00-14:30	Adi Stern Tel Aviv University *Real Time Evolution: Adaptation and Robustness in RNA Viruses*
14:30-14:45	Break
14:45-15:15	Nathalie Balaban Hebrew University of Jerusalem *Distinguishing Between Stochasticity and Determinism in Single Cells*
15:15-15:45	Roee Amit Technion- Israel Institute of Technology *Using synthetic enhancers to reveal a mechanism for quenching repression*
15:45-16:15	Takanari Inoue Johns Hopkins University *Total Synthesis of Cell Functions: Deconstructing and Constructing Chemotaxis and Phagocytosis*
16:15-16:45	Coffee break
16:45-17:00	Contributed Talk 1
17:00-17:15	Contributed Talk 2
17:15-20:30	Poster session, Dinner

December 10th, 2015

09:00-09:30	Gathering and refreshments
09:30-10:15	Naama Barkai - Keynote speaker Weizmann Institute of Science *The Cost of Making Proteins*
10:15-10:30	Break
10:30-11:00	David Sprinzak Tel Aviv University *The interplay between cell-cell signaling and cell morphology*
11:00-11:30	Roy Kishony Technion- Israel Institute of Technology *Multi-step adaptive paths leading to high level antibiotic resistance*
11:30-12:00	Rama Ranganathan University of Texas Southwestern *The Evolutionary "Design" of Proteins*
12:00-13:30	Lunch
13:30-14:00	Ron Weiss MIT *Mammalian Synthetic Biology: From Parts to Modules to Therapeutic Systems*
14:00-14:30	Tom Ellis Imperial College London *Constructing Synthetic Biology at Lower Costs*
14:30-14:45	Break
14:45-15:15	Ron Milo Weizmann Institute of Science *Rewiring E. Coli Central Metabolism for Carbon Fixation*
15:15-15:45	Lingchong You Duke University *Programming Bacterial Dynamics in Time and Space*
15:45-16:15	Ruth Hershberg Technion- Israel Institute of Technology *Studying cancer through an evolutionary prism*
16:15-16:45	Coffee break
16:45-17:30	Postdoc Panel Discussion
19:00	Speakers Dinner