



**The 12th Retreat of the Edmond J. Safra Center for Bioinformatics
May 22-23, 2017**

PROGRAM

Monday (22/05/17):

Buses leave at 8:30am (from TAU gate no. 2)

11:30-11:40 *Arrival to Nof-Ginosar*

11:40-12:00 **Opening**

12:00-12:35 **Roy Kishony**, Professor of Life Sciences, Faculty of Biology, Faculty of Computer Science, Technion, **Keynote talk:** Understanding, predicting and manipulating the evolution of antibiotic resistance

12:35-12:50 **Oren Avram** (Tal Pupko's group): A novel phylogeny-based algorithm for selective sweeps detection in bacteria

12:50-14:30 *Tour to Mount Arbel and light lunch*

14:30-14:55 **Avigdor Eldar**: Evolution of bacterial cell-cell signaling from an ecological and molecular perspective

14:55-15:10 **Dana Silverbush** (Roded Sharan's group): Multi-Omics data integration to identify cancer drivers

15:10-16:30 *Break (coffee, room keys distribution)*

16:30-17:05 **Re'em Sari**, Professor of Astrophysics, Racah Institute of Physics, Hebrew University, **Keynote talk:** Astrophysics and its connection to life in the universe

17:05-17:25 **Poster 1st lightning session** (posters 1-27)

17:25-19:00 **Poster 1st session** (posters 1-27) *and coffee*

19:00-20:00 *Dinner*

20:00 *Social activity*

Tuesday (23/05/17):

07:00-09:00 *Breakfast + Checkout (luggage in storage room)*

09:00-09:45 **Nir Ben-Tal, Tutorial session:** How proteins emerged and evolve?

09:45-10:00 **Shiran Abadi** (Itay Mayrose's group): A machine learning approach for revealing patterns underlying CRISPR-Cas9 mechanism of action

10:00-10:20 **Poster 2nd lightning session** (posters 28-53)

10:20-11:45 **Poster 2nd session** (posters 28-53) *and coffee*

11:45-13:00 *Active recess (sports activities/swimming)*

13:00-14:00 *Lunch*

14:00-14:25 **Metsada Pasmanik-Chor:** Translating computer analyses to biological insight

14:25-14:40 **Dvir Netanely** (Ron Shamir's group): Integrated analysis of multi-omic cancer data

14:40-15:30 **Mixer: "Meet the Expert" and coffee**

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| Avigdor Eldar | The interplay between mathematical modeling and experiments in systems biology |
| Irit Gat-Viks | The path to a/my scientific career: the journey, successes and dilemmas |
| Uri Gophna | How to choose a good scientific problem? |
| Martin Kupiec | How to build a scientific career? |
| Itay Mayrose | What's next? |
| Ron Shamir | Experience/successes/failures in the academic career |
| Roded Sharan | The future of bioinformatics in computer science |
| Noam Shomron | How to give a good scientific talk? |
| Tamir Tuller | A scientific career in the academia vs. high-tech/bio-tech |

15:30-15:55 **Yoel Shkolnisky:** Mathematical challenges in cryo-electron microscopy

15:55-16:05 **Closing remarks** (best poster prize winner declaration)

16:05 *Buses leave to TAU*