The Koret-Berkeley-Tel Aviv University Initiative in Computational Biology and Bioinformatics (KBTI)

Annual Workshop: Advances in Computational Biology
May 26 2022, Jaglom Auditorium (the Senate building), Tel Aviv University

09:30 – 09:45 Gathering & Coffee
09:45 – 09:50 Opening, Prof. Karen Avraham, Vice Dean, Faculty of Medicine, TAU

Chair: Adi Stern, TAU
09:50 – 10:10 Steven Brenner, UCB: TBD
10:10 – 10:30 Jennifer Listgarten, UCB: Machine learning for protein engineering
10:30 – 10:50 Ran Elkon, TAU: Functional interpretation of the noncoding genome
10:50 – 10:55 Noa Ecker (Pupko lab), TAU: A Lasso-based approach to sample sites for phylogenetic tree search

10:55 – 11:20 Coffee break

Chair: Roded Sharan, TAU
11:40 – 12:00 Roded Sharan, TAU: Mutational signatures: from basic science to clinical applications
12:00 – 12:20 Jean-Philippe Vert, Mines ParisTech: Learning to align biological sequences
12:20 – 12:25 Yadid Algavi (Borenstein lab), TAU: A data-driven approach for predicting the impact of drugs on the human microbiome

12:25 – 13:15 Lunch break

Chair: Steven Brenner, UCB
13:15 – 13:35 Irit Gat-Viks, TAU: Disease tolerance and resistance programs in influenza virus infection
13:35 – 13:55 Peter Sudmant, UCB: Profiling aging across cellular, organismal, and population levels
13:55 – 14:15 Andres Cardenas, UCB: Environmental influences on human epigenetic variability and epigenetic age acceleration
14:15 – 14:20 Michael Peeri (Tuller lab), TAU: Detecting selection for mRNA secondary structure strength at single gene resolution across the tree of life

14:20 – 14:25 Concluding remarks