



22nd Israeli Bioinformatics Symposium

Tuesday, May 7, 2024

Ben-Gurion University of the Negev, The Marcus Family Campus

Abraham Ben David Ohayon Behavioral Sciences Complex (Building 98), Hall 1 ([Map](#))

8:20	Gathering and registration
9:00	Welcome greetings Prof. Daniel Chamovitz , President of Ben-Gurion University Prof. Sagi Snir , ISBCB president
9:10 - 10:20 Session 1 - Chair: Tal Shay (BGU)	
9:10	Keynote 1: Esti Yeger-Lotem (BGU) , Genetics in context: Enhancing rare disease diagnosis via interpretable machine learning
9:40	Shahar Alon (BIU) , Spatial genomics at the nanoscale - promises and challenges
10:00	Nadav Rappoport (BGU) , Dimensionality reduction for polygenic-risk-score using deep learning approach
10:20 - 10:45 Coffee break	
10:45 - 12:30 Session 2 - Chair: Isana Veksler-Lublinsky (BGU)	
10:45	Keynote 2: Nikolaus Rajewsky (Max Delbrück Center for Molecular Medicine) , Spatial Transcriptomics at high-resolution and in 3D, applied to solid human tumors
11:30	Yitzhak Pilpel (WIS) , Evolutionary safety of mutagenic drugs
11:50	Flash talks, selected from submitted abstracts
12:30 - 13:30 Lunch and board meeting	
13:00 - 14:00 Posters session	
14:00 - 15:10 Session 3 (Track A) - Chair: Nadav Rappoport (BGU)	
14:00	Yaara Oren (TAU) , The day after the drug: Investigating drug-induced cellular memory
14:20	Barak Raveh (HUJI) , Bayesian metamodeling across varying representations: From nucleocytoplasmic transport to immune response
14:40	Dvir Aran (Technion) , The power of many: Early cellular dynamics upon immune checkpoint inhibition
15:00	Itai Rusinek (Ultima Genomics) , Whole genome sequencing on the Ultima Genomics UG100 with ppmSeq™ enables scalable rare variant detection in cell free DNA

14:00 - 15:20 Session 3 (Track B) - Practical Bioinformatics, Chairs: Tsviya Olender (WIS) & Dena Leshkowitz (WIS) 📍 Building 70 ,Barkan Conference Hall	
14:00	Vered Chalifa-Caspi (BGU) , Non-model organisms - overview of genomic and transcriptomic data analysis approaches
14:20	Ido Azuri (WIS) , AI-empowered bio-imaging: Applications in malaria detection and Gaucher disease diagnosis
14:40	Assaf Goldberg (Ariel U) , Identification of tumor microbiome and its utilization as a diagnostic tool: Methods and challenges
15:00	Gal Bilinsky (IIBR) , "thy brother's blood" project: Development of a methylation-based tissue classification assay for casualty identification
15:10 - 15:40 Coffee break	
15:40 - 16:50 Session 4 - Chair: Ofir Cohen (BGU)	
15:40	Sariel Hübner (Migal) , The pangenome perspective on evolutionary biology
16:00	Judith Somekh (HU) , Computational systems biology to study human diseases
16:20	IBSCB Award to Prof. Ron Shamir (TAU) Poster prizes in memory of Gal Eisenkot Concluding remarks

Organizing committee (BGU):

Tal Shay
Isana Veksler-Lublinsky
Vered Chalifa-Caspi
Ofir Cohen
Nadav Rappoport
Esti Yeger-Lotem

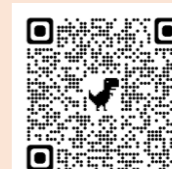
Conference coordinator & Accessibility issues: acv@bgu.ac.il

Conference website: <https://lifewp.bgu.ac.il/wp/ISBCB/>

[Arrival](#) and [parking](#) information

Early registration and abstract submission deadline: **April 21th, 2024**

[Registration form](#)



Sponsors:

Faculty of Engineering

Faculty of Health Sciences

Department of Life Sciences

Department of Software and Information Systems Engineering



Edmond J. Safra Center
for Bioinformatics
Tel Aviv University



DANYELBIOTECH
at the heart of action