

# BYTE-SIZED SCIENCE:

## EDMOND J. SAFRA YOUNG RESEARCHERS' FORUM

31.03.2025

Jaglom Auditorium,  
The Senate Building

**11:00** Gathering

**11:10** Opening remarks

**11:20** Short talks session #1:

- Yael Kupershmidt (Sharan lab) - *SPIDER: constructing cell-type-specific protein-protein interaction networks*
- Nadav Ben Nun (Ram lab) - *The collective posterior distribution in simulation-based inference*
- Mor Tsamir (Borenstein lab) - *Strain-level bacterial sharing between rectal and vaginal microbiomes*
- Elya Wygoda (Pupko lab) - *Simulating biological sequence evolution*
- Ori Moskowitz (Cohen lab) - *Neutrophils physically interact with tumor cells to form a signaling niche promoting breast cancer aggressiveness*
- Liat Bilinsky (Gophna & Dotan labs) - *Strain dynamics and evolution in the microbiome*

**12:05** Short break

**12:15** Short talks session #2:

- Hagai Levi (Shamir & Elkon labs) - *Using polygenic scores for breast cancer risk prediction*
- Shiri Baum (Borenstein lab) - *Taxonomy-Guided feature engineering for microbiome data*
- Yossi Glantzspiegel (Gat-Viks lab) - *Modeling DNA methylation of immunometabolic dysfunctions*
- Itamar Menuhin (Tuller lab) - *STABLES: AI-directed gene fusing prolongs the evolutionary half-life of synthetic gene circuits*
- Sapir Shemesh (Elkon lab) - *Genetic modifiers of breast cancer risk among Ashkenazi jewish BRCA1 mutation carriers*

**12:50** Mystery game

**13:00** Light lunch



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