



## MALAM Seminar Symposium Program\ Sherman 03

### Day 1 - July 28th, 2025

09:30 Morning Refreshment

09:55 Introduction and Welcome - Prof. Anat Herskovits

#### Session 1 – Chair: Mia Horowitz

- 01 10:00 **Lana Badaan (Gerardo Lederkremer):** Investigating Protein Interactions During Mutant Huntingtin Aggregation Using Biotinylation Proximity Labeling
- 02 10:15 **Maria Pirozhkova (Daniel Benhalevy):** GTPBP8 plays a role in mitoribosome formation in human mitochondria
- 03 10:30 **Yael Maoz (Adi Stern):** Inferring public goods proteins in viruses from deep sequencing data
- 04 10:45 **Yoav Nuta (Adit Ben Baruch):** Nuclear PD-L1 regulates the cell-autonomous pro-metastatic activities of PD-L1 in breast cancer
- 05 11:00 **Daniel Diadko (Itai Benhar):** Inhibition of brain metastases by antibodies that inhibit LCN2

#### Session 2 – Chair: Gerardo Lederkremer

- 06 11:45 **Lior Yakir (Adit Ben-Baruch):** CD24 regulation in luminal A breast cancer: Interplay between microenvironment, glycosylation, and subcellular localization
- 07 12:00 **Aviv Yehuda (Vered Padler Karavani):** Investigating association between diet, anti-glycan antibodies and risk of cancer and cardiovascular diseases
- 08 12:15 **Mahekdeep Kaur (Daniel Benhalevy):** Characterizing protein-RNA Interactions at Subcellular Resolution
- 09 12:30 **Eynav Livne (Tal Dvir):** Engineering of functional smooth muscle cell - based tubular tissue
- 10 12:45 **Noam Ofri (Yariv Wine):** ScFv-Fc Fusion Antibody Engineering Towards Developing Antibacterial Diagnostic and Therapeutic Solution
- 11 13:00 **Shadan Mahajna (Vered Padler Karavani):** Unraveling the Influence of Klotho on Glycan-Mediated Intracellular Pathways and Downstream Signaling in Breast Cancer

#### Session 3 – Chair: Uri Gophna

- 12 13:45 **Shahar Attia (Itay Benhar):** Human anti-IDE H3 Antibody Affinity Maturation
- 13 14:00 **Shelly shlanger (Adit Ben-Baruch):** Membrane TNF $\alpha$  down-regulates TNF $\alpha$ -induced pro-metastatic functions in triple-negative breast cancer cells
- 14 14:15 **Tamar Pick (Orna Elroy-Stein):** Possible uORF-Mediated Translational Control of UQCR11 and Gclm
- 15 14:30 **Rachel Rubinstein (Amir Ayali):** A bio-hybrid sensor for explosives detection using the locust antenna



## MALAM Seminar Symposium Program\ Sherman 03

### Day 2 - July 29th, 2025

09:30 Morning Refreshment

#### Session 4 – Chair: Vered Padler-Karavani

- 16    10:00    **Keren Rozen (Irit Gat-Viks):** Improve disease classification with a structured time-series model
- 17    10:15    **Barak Attar (Uri Gophna):** Double intein transfer in halophilic archaea
- 18    10:30    **Yael Shilderman (Martin Kupiec, Gur Pines):** Yeast engineering to produce moth pheromones
- 19    10:45    **Naiel Jabareen (Tal Pupko):** Sequence Simulations: Benchmarking and Integration of Advanced Probabilistic Models
- 20    11:00    **Peleg Bazak (Martin Kupiec, Tamir Tuller):** Towards Rational Toehold Switch Design: A general model to predict toehold switches performance based on explainable machine learning

#### Session 5 – Chair: Itai Benhar

- 21    11:45    **Noam Bracha (Tal Pupko):** Bioinformatic Characterization of Type III Secreted Effector Structures
- 22    12:00    **Polina Rybalchenko (Eran Bacharach):** Optimizing Trout Granulomatous Virus Spike Expression for DNA or Virus-Like Particle Vaccines in Rainbow Trout
- 23    12:15    **Roni Meamen Moses (Irit Gat-Viks):** Meta-Learning for Proteomics-Based Few-Shot Classification
- 24    12:30    **Nidhi Singh (Ehud Gazit):** Molecular Mechanisms and Therapeutic Opportunities in Inborn Errors of Metabolism

#### Session 6 – Chair: Orna Elroy-Stein

- 25    13:15    **Doraya Neumann (Eran Bacharach, Gerardo Lederkremer, Marcelo Ehrlich):** GLB7 is a novel compound that targets regulators of protein synthesis and inhibits viral infection
- 26    13:30    **Chen Agassy (David Burstein):** Widespread Role of ssDNA Promoters in Regulating Early Gene Expression in Conjugative Plasmids
- 27    13:45    **Stav Weinrib (Uri Gophna):** Hachiman defense system in halophilic archaea: antiviral protection and DNA damage response

14:00 Outside Drinks & Refreshments