

The Rachel and Selim Benin School of  
Computer Science and Engineering  
The Alexander Silberman Institute of Life Sciences

## Etgar and Computational Biology Programs Invite You to the 3rd year Research Project Poster Presentations

### Etgar Program:

**Avital Shifra**- "Macpf in *Nematostella*"  
**Advisor:** Dr. Yehu Moran

**Beit-Yannai Yotam**- "Auxin Tet-Off:  
Conditional Protein Degradation in Yeast"  
**Advisor:** Prof. Tommer Ravid

**Benmelech Chovav Aviya**- "The role of  
astrocytes in spatial cognition"  
**Advisor:** Dr. Inbal Goshen

**Ben-Yehuda Adi**- "Functional analysis of  
variants in genes correlated with risk of  
breast cancer"  
**Advisor:** Prof. Ephrat Levy-Lahad

**Bruchiel Nadav**- "Senescent cells  
reporter in the short-lived African  
turquoise Killifish (*Nothobranchius  
furzeri*)"  
**Advisor:** Dr. Itamar Harel

**Byun Yebin**- "Soil selection by *Sahastata  
nigra* and the potential for its use as a  
bioindicator for habitat restoration in  
Avrona reserve"  
**Advisor:** Dr. Efrat Gavish-Regev

**Galun Nir**- "Prediction of DNA methyla-  
tion in primate's soft tissue based on  
primate's hard tissue"  
**Advisor:** Prof. Liran Carmel

**Haim Guy**- "A novel potential regulation  
mechanism in eukaryotic protein kinases"  
**Advisor:** Prof. David Engelberg

**Hoter Shir**- "Associative memories of  
aversive experiences in *C.elegans*"  
**Advisor:** Dr. Alon Zaslaver

**Illouz Yael**- "Defining essential genes for  
mesoderm differentiation of human  
embryonic stem cells"  
**Advisor:** Prof. Nissim Benvenisty

**Lotem Matan**- "Finding the Source of  
Yeast Nrd1 Inviability"  
**Advisor:** Prof. Nir Friedman

**Machnes Omri**- "Titanium (IV) complex  
as anticancer agent"  
**Advisor:** Prof. Edit Tshuva

**Nelken Tal**- "Nutrient exchange between  
bacteria through nanotubes"  
**Advisor:** Prof. Sigal Ben-Yehuda

**Notea Ofir**- "Nanopore sequencing and  
Telomeres biology disorders"  
**Advisor:** Prof. Yehuda Tzfati

**Nudel Tomer**- "Analysis of cation specificity  
of NhaA, Na<sup>+</sup>/H<sup>+</sup> antiporter, by mutagenesis"  
**Advisor:** Prof. Etana Padan

**Schneider Noa**- "miRNAs involvement in  
fatty liver disease"  
**Advisor:** Prof. Hermona Soreq

### Computational Biology Program:

**Bayevsky Ida**- "Identifying Shared Genetic  
Signatures in Autoimmune Diseases"  
**Advisor:** Prof. Michal Linial

**Berko Nina**- "Classification and Functional-  
ity of Regulatory RNAs Derived From 3'  
Untranslated Regions"  
**Advisor:** Prof. Hanah Margalit

**Cogan Adi**- "Tissue Specific Alterations of  
the Translation Apparatus During Aging"  
**Advisor:** Dr. Itamar Harel

**Cohen Sean**- "Protein Integrative Modeling:  
Low-resolution, Efficient Tool"  
**Advisor:** Dr. Nir Kalisman

**Frenkel Ella**- "The Contribution of Cell  
Cycle State to Cell-to-cell Variability in  
Stress Response"  
**Advisor:** Prof. Nir Friedman

**Green Gilad**- "Identifying Key Drivers for  
Alzheimer's Disease in Human Deep White  
Matter"  
**Advisor:** Dr. Naomi Habib

**Guggenheim Amitai**- "Analyzing DNA  
Methylation Changes in Recent Human  
Evolution"  
**Advisors:** Prof. Eran Meshorer & Prof.  
Liran Carmel

**Heimann Yasmin**- "Development of  
Machine Learning Algorithms for Predicting  
MHC-I and Peptide Binding"  
**Advisor:** Prof. Raanan Fattal

**Kaye Daniel**- "Analyzing Effects of  
Enhancer Methylation on Distal Genes in  
Glioblastoma"  
**Advisor:** Prof. Asaf Hellman

**Natovich Yifat**- "Does Music Evoke  
Surprise Responses in the Auditory Cortex  
of Anesthetized Rats?"  
**Advisor:** Prof. Israel Nelken

**Nudelman Daniel**- "The Effect of Cocaine  
Experience on Alternative Polyadenylation  
in the Mouse Brain"  
**Advisor:** Dr. Ami Citri

**Odeh Dania**- "Prediction of Multi-domain  
Protein Structures Using Evolutionary  
Information"  
**Advisor:** Prof. Ora Furman

**Peled Itay**- "ChIP-Bis-Seq Identifies  
Methylation Restrictions and Heterogene-  
ity During Early Differentiation"  
**Advisor:** Dr. Oren Ram

**Rappeport Hagai**- "Characterizing Chaos  
and its Effects in Biological Dynamical  
Systems"  
**Advisors:** Prof. Naftali Tishby & Prof.  
Nathalie Balaban

**Sackstein Danielle**- "The Effect of  
Learning and Memory on Gene Expres-  
sion in *C. elegans*"  
**Advisor:** Dr. Alon Zaslaver

**Sasporte Abigail**- "Dynamics of Red  
Shifted Chlorophylls in an Aquaculture  
System"  
**Advisors:** Prof. Nir Keren & Dr. Daniel  
Sher

**Sender Dana**- "Characterizing the Genetic  
Variance in *C. elegans*"  
**Advisor:** Dr. Alon Zaslaver

**Shuster Rotem**- "Profiling the Regulation  
of Dendritic Cells by IL-10 Using CRISPR  
Screen"  
**Advisor:** Dr. Oren Parnas

**Tal Rotem**- "Predicting Infant Milk Allergy  
Using Gut Microbiome Data"  
**Advisor:** Dr. Moran Yassour

**Varshavsky Miri**- "Identifying Overlapping  
Molecular Effects of Aging and Alzheimer's  
Disease on Brain Cells"  
**Advisor:** Dr. Naomi Habib

**Varshavsky Yulia**- "The Effect of Bariatric  
Surgery on DNA Methylation in the Liver"  
**Advisor:** Dr. Danny Ben-Zvi

**Yusupov Yasmin**- "Regulation of Protein  
Translation During Vertebrate Aging"  
**Advisor:** Dr. Itamar Harel



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