

Curriculum Vitae

Name: Sophia Katz
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Languages: Hebrew, English, Russian

Education

- 2007-2012 PhD student in Medical Science at the Technion - Israel institute of technology, the Ruth and Bruce Rappaport faculty of medicine. Research was done in the lab of Prof. Serge Ankri, at the Department of Molecular Microbiology. Thesis title: "the Entamoeba histolytica Methylated Line Binding Protein (EhMLBP) serves as a bridge between environmental stress response and epigenetic regulation"
- 2003- 2005 M.Sc. in Morphology and Developmental Science, Medical Sciences. Research was done in the lab of Prof. Joseph Yanai, at the Department of Anatomy, Hadassah Medical School, Hebrew University, Jerusalem, in collaboration with Prof. Tamir Ben-Hur, from the Department of Neurology, Hadassah-Hebrew University Hospital Jerusalem
- 1998-2001 B.Sc. in Nutrition, Hebrew University, Jerusalem.

Professional Experience

- 2012-present Research associate / Lab manager in Dr. Ruth Hershberg's Computational Evolutionary Genomics laboratory at the Technion – Israel Institute of Technology.
- 2005-2007 Research Assistant in the Antibiotics Unit at Alomone labs.

Teaching experience

- 2008-present. Teaching assistant in the microbiology lab for medical students.
- 2002-2003 Teaching assistant in the biochemistry lab for undergraduate students.
- 2002-2003 Instructor in a science museum

Publications

- **Katz S** and Hershberg R. Elevated mutagenesis does not explain the increased frequency of antibiotic resistant mutants in starved aging colonies. PLoS Genetics. 9(11): e1003968
- **Katz S**, Geffen M and Ankri S. Stress Granule Formation in Entamoeba histolytica: Cross talk between EhMLBP, EhRLE3 reverse transcriptase, and polyubiquitinated proteins. Cellular microbiology under revision.
- **Katz S**, Kushnir O, Tovy A, Siman-Tov R, Ankri S. The Entamoeba histolytica methylated LINE binding protein EhMLBP provides protection against heat shock. Cell Microbiol. 2011
- **Katz, S.**, Ben-hur, T., Ben-Shaan T. L., and J, Yanai. Reversal of heroin neurobehavioral teratogenicity by grafting of neural progenitors. J Neurochem, 2008;104(1):38-49.
- Yanai, J., T. L Ben-Shaan, H. Haimovitch, **S. Katz**, and M. Kazma. Mechanism Based Approaches for the Reversal of Drug Neurobehavioral Teratogenicity. Annals NY Academy of Science, 2006;1074:659-71.
- Yanai, J., A. Beer, R. Huleihel, M. Izrael, **S. Katz**, Y. Levi, I. Rozenboim, S. P. Yaniv, and T. A. Slotkin. Convergent Effects on Cell Signaling Mechanisms Mediate the Actions of Different Neurobehavioral Teratogens:

Alterations in Cholinergic Regulation of PKC in Chick and Avian Models.
Annals NY Academy of Science, 2004;1025:595-601.