Technion - Israel Institute of Technology
Department of Biology

הטכניון - מכון טכנולוגי לישראל
הפקולטה לביולוגיה

Ayala Shiber CV
April 2021

Academic Appointments:

2019-Current, Assistant Professor and Senior lecture
Faculty of Biology, Technion, Israel Institute of Technology, Israel
Research in the field of co-translational protein folding, assembly and quality control pathways, in health and disease.

2014-2019, Postdoctoral research fellow
Heidelberg University; The center for molecular biology (ZMBH) and the German Cancer Research Center (DKFZ), Heidelberg, Germany.
Research in the field of mRNA translation, ribosome associated factors and protein biogenesis. Prof. Dr. Bernd Bukau research group.

Education:

2009-2014 Ph.D., Biochemistry,
The Hebrew University of Jerusalem, Israel.
Thesis: “The role of cellular chaperones in the degradation of misfolded proteins by the ubiquitin-proteasome system”
Advisor: Prof. Tommer Ravid.

2004-2006 M.Sc., Genetics;
Ben Gurion University of the Negev, Israel
Thesis: “The role of the *Cs-ACS1G* gene, the *Female* locus of cucumber in floral dimorphism”.
Advisor: Dr. Tova Trebitsh.

2001-2004 B.Sc., Bio-Technological Engineering;
Ben Gurion University of the Negev, Israel.
Thesis: "Analysis of the *Arabidopsis` Biotin Synthase (BIO-2)* promoter’s expression pattern in tomato"Advisor: Dr. Orna Livneh.

Selected Awards:

Oskar Davis award for young Principal Investigators (2019-2021), “Alexander von Humboldt” research fellowship (2015-2017), FEBS poster award (2017), FEBS travel award (2017,2012), HUJI Scholarship for academic excellence (2009-2014), “Hazera genetics award” for industrial innovation (2009)

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Research interests:

In my research group we are exploring the mechanisms guiding the folding and assembly of newly synthesized proteins into multi-molecular complexes as well as the mechanisms for co-translational quality control, in health and disease. We are studying the role of the ribosome as a platform for coordinating complex assembly during synthesis, by advanced techniques combining biochemistry and deep sequencing such as selective ribosome profiling as well as super resolution microscopy. We are also developing tools for studying single molecule mRNA-protein interactions, *in vivo*.

Ayala Shiber, PhD
Assistant Prof.
Faculty of Biology

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