

Post-Doc Position at the group of Prof. Tali Haran, Department of Biology, Technion, Haifa, Israel

We are looking for an independent, motivated, diligent, and dedicated postdoctoral researcher for two projects funded by the Israel Science foundation:

(1) How the interplay of DNA sequence/shape and transcription factor interactions contribute to cellular phenotypes and differential transcription.

Differential activity of p53, such as differential transcription of p53 target genes, or variable cellular/organismal level outcomes like life or death, have important implications in cancer, developmental biology, stem cell biology, and the safe and efficacious use of clinical therapies. Our approach uses integrated biochemical, biophysical, and genetic approaches to study how core DNA shape characteristics influence p53 activity. This project probes the conjecture that DNA flexibility is a strong classifier of p53 functional outcome, and the experiments will span the range from semi in-vitro conditions to fully in cellular context.

Qualification: The ideal candidate would have a Ph.D. in cell biology, biochemistry or genomics. Knowledge of cell-based assays is a must! Knowledge of CRISPR-Cas9 methods is a bonus. This is in addition to creativity, enthusiasm, and the ability to work independently.

(2) Is there a universal code for protein-DNA interactions?

This project deals with the basic problem of whether there is a universal code for protein-DNA interactions and where does it reside. Novel methodology will be used to assess in a high-throughput manner the relationship between DNA binding motifs and the protein motifs that preferentially bind to them.

Qualification: The ideal candidate would have a Ph.D. in biochemistry, biophysics or genomics and should be well versed in both molecular biology techniques and analytical techniques. This is in addition to creativity, enthusiasm, and the ability to work independently.

Contract: Full-time position for 2-5 years.

To apply: Please send a CV and contact information for 2-3 referees by email to Prof. Tali Haran: bitali@technion.ac.il

