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Positions

- 2019-present **Assistant Professor** (Senior Lecturer). Hebrew University (Jerusalem, Israel). Alexander Silberman Institute of Life Sciences, Department of Genetics.
- 2014-2019 **Postdoctoral Fellow**. Harvard University (Cambridge, MA, USA). Department of Molecular and Cellular Biology. Host: Prof. Alexander F. Schier.

Education

- 2008-2013 **Ph.D.** Massachusetts Institute of Technology (Cambridge, MA, USA). Department of Electrical Engineering and Computer Science.
Thesis: Models of dynamic RNA regulation in mammalian cells. Advisor: Prof. Aviv Regev.
- 2005-2008 **M.Sc.** Weizmann Institute of Science (Rehovot, Israel). Department of Computer Science and Applied Mathematics.
Thesis: A probabilistic model for RNA motifs in unaligned sequences. Advisor: Prof. Eran Segal.
- 2002-2005 **B.Sc.** (Magna Cum Laude). Hebrew University (Jerusalem, Israel). Computer Science and Computational Biology and the "Amirim" special honors program in natural sciences.

Publications

1. Viegas JO, Kumar Azad G, Lv Y, Paltiel T, Pattabiraman S, Park JE, Fishman L, Kaganovich D, Sze SK, **Rabani M**, Esteban M and Meshorer E, CAPRIN1 links embryonic stem cell differentiation with RNA metabolism. Developmental Cell. 2022.
2. **Rabani M**, Massively parallel analysis of regulatory RNA sequences. Methods in Molecular Biology. 2021.
3. **Rabani M**, Pieper L, Chew GL, Schier AF, Massively parallel reporter assay of 3'UTR sequences identifies in vivo rules for mRNA degradation. Molecular Cell. 2017.
4. Jovanovic M, Rooney M, Mertins P, Przybylski D, Chverier N, Satija R, Rodriguez EH, Fields AP, Schwartz S, Raychowdhury R, Mumbach M, Eisenhaure T, **Rabani M**, Gennert D, Lu D, Delorey T, Weissman JS, Carr S, Hacohen N, Regev A. Dynamic profiling of the protein life cycle in response to pathogens. Science. 2015.
5. Fuchs G, Voichek Y, **Rabani M**, Benjamin S, Gilad S, Amit I, Oren M. Measuring simultaneously genome-wide transcription elongation and initiation rates by 4sUDRB-seq. Nat. Prot. 2015.
6. **Rabani M**, Raychowdhury R, Jovanovic M, Rooney M, Stumpo DJ, Pauli A, Hacohen N, Schier AF, Blackshear PJ, Friedman N, Amit I, Regev A. High resolution sequencing and modeling identifies distinct dynamic RNA regulatory strategies. Cell. 2014.
7. **Rabani M**, Levin JZ, Fan L, Adiconis X, Raychowdhury R, Garber M, Gnirke A, Nusbaum C, Hacohen N, Friedman N, Amit I, Regev A. Metabolic labeling of RNA uncovers principles of RNA production and degradation dynamics in mammalian cells. Nature Biotechnology. 2011.
8. **Rabani M**, Kertesz M, and Segal E, Computational prediction of RNA structural motifs involved in post-transcriptional regulatory processes. RNA detection and visualization Methods in Molecular Biology. 2011.
9. Huarte M, Guttman M, Feldser D, Garber M, Koziol MJ, Kenzelmann-Broz D, Khalil AM, Zuk O, Amit I, **Rabani M**, Attardi LD, Regev A, Lander ES, Jacks T, Rinn JL. A large intergenic noncoding RNA induced by p53 mediates global gene repression in the p53 response. Cell. 2010.
10. Wolf JJ, Dowell RD, Mahony S, **Rabani M**, Gifford DK, Fink GR. Feed-forward regulation of a cell fate determinant by an RNA-binding protein generates asymmetry in yeast. Genetics. 2010.
11. **Rabani M**, Kertesz M, Segal E. Computational prediction of RNA structural motifs involved in posttranscriptional regulatory processes. PNAS. 2008.