

Yonatan B. Tzur, PhD - Curriculum Vitae

Senior Lecturer/Assistant Professor

Department of Genetics

The Hebrew University of Jerusalem

CONTACT INFORMATION

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EDUCATION

2007: PhD, Dept. of Genetics, Hebrew University of Jerusalem

Thesis title: The Role of the Nuclear Lamina in Apoptosis

1999: BSc, (magna cum laude), Chemistry with minor in Biology, Hebrew University of Jerusalem

RESEARCH EXPERIENCE

2014 – Present: Tenured Senior Lecturer/ Assistant Professor, Dept. of Genetics, Hebrew University of Jerusalem

Research interests:

- Germ cell development and aging
- Non-coding RNA
- Genome engineering

2008 – 2014: Research Fellow, Harvard University Medical School, Boston

Supervisor: Prof. Monica P. Colaiácovo

Projects: The role of LAB-1 during *C.elegans* meiosis; Systematic analysis of transcriptomic changes throughout meiosis; Engineering of *C. elegans* genomes by the CRISPR-Cas9 system.

2000 – 2008: PhD student, Dept. of Genetics, Hebrew University of Jerusalem

Advisor: Prof. Yosef Gruenbaum

Thesis Research: Understanding the fate and the involvement of the nuclear envelope during *C. elegans* programmed cell death

SUPERVISION OF STUDENTS

2015 – Present Supervising 9 graduate students

PRIZES AND AWARDS

2021 – Rector list for teaching excellence. The Hebrew University of Jerusalem, Israel.

2019 – Rector list for teaching excellence. The Hebrew University of Jerusalem, Israel.

- 2017 – Best basic science abstract prize in the annual meeting of the Israeli Fertility Association (IFA/AYALA), awarded to Yisrael Rappaport from the lab, Israel
- 2017 – Best basic science abstract prize in the annual meeting of the Israeli Fertility Association (IFA/AYALA), Israel
- 2016 – Award for research proposal in basic science that can lead to novel treatment, Teva, Israel
- 2015 – Travel award for young group leaders, EMBO
- 2015 – Best abstract award in the meeting on Fertility and Embryonic Development of the Israeli Fertility Association (IFA/AYALA), Israel
- 2014 – Excellence Fellowship, starting Lecturers, Golda Meir Fund, Israel

GRANTS AND FUNDING

- 2021 – 2026 Israeli Science Foundation (ISF) – Systematic Analysis of the Roles of Long Intergenic Non-Coding RNAs in Fertility. 415,000 \$ (83,000 \$/year for 5 years).
- 2021 SHEMESH, The Joint Research fund of the Life Sciences Institute and Sharee Zedek medical institute, Finding non-canonc oncogenic mutations and pathways. 12,000\$.
- 2020 Ministry of Science and Technology (599,725 ILS).
- 2020 Hebrew University Hadssah cooperation fund (2,000 US \$ sub-contractor).
- 2017 Israel Science Foundation, INCPM services usage (9,000 US \$).
- 2016 Teva LTD, Personal Grant Award (17,000 US \$).
- 2015 – 2019 Israel Science Foundation, Personal Grant Award (445,000 US \$).
- 2015 Israel Science Foundation, Infrastructure Grant Award (228,000 US \$).
- 2015 – 2017 H2020 Marie Skłodowska-Curie Individual Fellowship (182,500 Euro).

Selected Publications

Total number of Google Scholar citations = 1781

1. **Tzur, Y.B.**, (2022). *lncRNAs in fertility: redefining the gene expression paradigm?*. ***Trends in Genetics***, In press.
2. Rappaport, Y., Falk R., Achache, H., **Tzur, Y.B.**, (2022). *Linc-20 and linc-9 do not have compensatory fertility roles in C. elegans*. ***microPublication Biology.***, 1 doi: 10.17912/micropub.biology.000524.
3. Rappaport, Y., Achache, H., Falk R., Murik O., Ram O., **Tzur, Y.B.**, (2021). Bisection of the X Chromosome Disrupts the Initiation of Chromosome Silencing during Meiosis in *Caenorhabditis*

elegans. **Nat. Comm.**, 12, 4802.

4. Achache, H., Falk, R., Lerner, N., Beatus, T., **Tzur, Y.B.**, (2021). Oocyte Aging is Controlled by Mitogen Activated Protein Kinase Signaling. **Aging Cell.**, 20(6): e13386
5. Ishtayeh, H., Achache, H., Kroizer, E., Rappaport, Y., Itskovits, E., Gingold, H., Best, C., Rechavi, O., **Tzur, Y.B.**, (2020). Systematic Analysis of Long intergenic Non-Coding RNAs in *C. elegans* germline uncovers roles in somatic growth. **RNA biology**, 18(3):435-445.
6. Achache H., Laurent L., Hecker-Mimoun Y., Ishtayeh H., Rappaport Y., Kroizer E., Colaiácovo M.P., **Tzur Y.B.** (2019). Progression of Meiosis is Coordinated by the Level and Location of MAPK Activation Via OGR-2 in *Caenorhabditis elegans*, **Genetics**, 212(1):213-229.
7. Moll L., Roitenberg N., Bejerano-Sagie M., Boocholez H., Carvalhal Marques F., Volovik Y., Elami T., Siddiqui A.A., Grushko D., Biram A., Lampert B., Achache H., Ravid T., **Tzur Y.B.**, Cohen E. (2018). The Insulin/IGF Signaling Cascade Modulates SUMOylation to Regulate Aging and Proteostasis in *Caenorhabditis elegans*. **Elife**, pii: e38635.
8. **Tzur Y. B.**, Winter E., Gau, Jin-Min, Hashimshony T, Yanai, I., Colaiácovo M. P. (2018). Spatiotemporal Gene Expression Analysis of the *Caenorhabditis elegans* Germline Uncovers a Syncytial Expression Switch. **Genetics**, 210(2):587-605.
9. Nadarajan S., Mohideen F., **Tzur Y.B.**, Ferrandiz N., Crawley O., Montoya A., Faull P., Snijders A.P., Cutillas P.R., Jambhekar A., Blower M.D., Martinez-Perez E., Harper J.W., Colaiacovo M.P. (2016). The MAP Kinase Pathway Coordinates Crossover Designation With Disassembly Of Synaptonemal Complex Proteins During Meiosis. **Elife**, 5 :e12039.
10. **Tzur Y. B.**, Friedland A. E., Nadarajan S., Church G. M., Calarco J. A., Colaiácovo M. P. (2013). Heritable Custom Genomic Modifications in *C. elegans* via a CRISPR-Cas9 System. **Genetics**, 195: 1181-1185.
11. Calarco J., Chiu H., Dickinson D. J., Friedland A.E., Lee J., Lo T-W., Schwartz H., **Tzur Y.B.**, Ward J.D. (2013). Workshop review: Engineered Nucleases for Genome Editing in Nematodes. **Worm Breeder's Gazette**, 19(4), 25-26.
12. Friedland A.E., **Tzur Y.B.**, Esvelt K.M., Colaiácovo M.P., Church G.M., Calarco J.A. (2013). Heritable Genome Editing in *C. elegans* via CRISPR-Cas System. **Nature Methods.**, 10(8), 741-743.
13. **Tzur Y. B.**, de Carvalho C.E., van Bostelen I., Gu Y., Chu D.S., Cheeseman I.M. Colaiácovo M.P. (2012). LAB-1 Targets PP1 and Restricts Aurora B Kinase upon Entrance into Meiosis to Promote Sister Chromatid Cohesion. **PLoS Biol.**, 10(8):e1001378.
14. **Tzur Y. B.**, Colaiácovo M.P. (2009). Genetics: Crossover Control in Two Steps. **Nature**. 462, 46-47.