

CURRICULUM VITAE

PERSONAL DETAILS

Name: Yael (Elbaz) Alon
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EDUCATION

2014 – Current Fulbright postdoctoral scholar, Department of Molecular and Cellular Biology, laboratory of Prof. Jodi Nunnari, UC Davis.
2012- 2014 Senior Intern in the Department of Molecular Genetics, Weizmann Institute of Science.
2010- 2012 Post-doctoral studies in the Department of Molecular Genetics, laboratory of Dr. Maya Schuldiner, Weizmann Institute of Science.
2004–2010 Ph.D. studies in the Department of Biological Chemistry, laboratory of Prof. Shimon Schuldiner, The Hebrew University of Jerusalem. Thesis: “Structure-function study of multidrug transporters”. Awarded *Summa cum laude*.
2002–2004 M.Sc. studies in the Department of Biological Chemistry, laboratory of Prof. Shimon Schuldiner, The Hebrew University of Jerusalem.
1999–2002 B.Sc. *cum laude*, Honors program “Etgar” in Biology, The Hebrew University of Jerusalem.

FELLOWSHIPS AND AWARDS

2014 Fulbright Post-doctoral scholar fellowship
2010 Faculty Dean postdoctoral fellowship, Weizmann Institute of Science
2009 EMBO short-term fellowship for a collaborative project at the University of Washington
2009 TEVA company prize for outstanding graduate students
2006 The Adams fellowship for outstanding graduate students, the Israel Academy of Sciences
2005 Golda Meir scholarship for excellent graduate students, The Hebrew University of Jerusalem
2005 IAUW (Israel Association of University Women) award for outstanding women in science
2004 Israel and Edith Polack Award for excellence in studies and achievements in research
2002 Hazelkorn fellowship for excellent M.Sc students, The Hebrew University
2002 Dean’s Honor List for undergraduates

ACADEMIC APPOINTMENTS

- 2008-2009 Coordinator of the teaching assistants team in the course "Biochemistry of the Cell".
Teaching assistant in "Advanced Biochemistry and Physiology of Membrane Proteins".
- 2005-2007 Organizer and teaching assistant of the laboratory course for graduate students: "Protein Expression and Purification".
- 2002-2007 Teaching assistant in the courses "from Cell to Organism" and "Biochemistry of the Cell".

COMMUNITY SERVICE AND OTHER ACTIVITIES

- 1998–2004 Teaching and tutoring of under-privileged children in the Israel Goldstein Youth Village, Jerusalem.
- 1992-1997 Army service as a commanding officer and instructor. Rank: Captain ("Seren").
- 1989-1992/1997-98 Played basketball for the municipal Elitzur Natanya team (High school and women leagues)

CONFERENCE/SEMINAR TALKS

- Feb 2013 Mitochondria, Metabolic Regulation and the Biology of Ageing, Lanzarote, Spain
Talk Title: "A dynamic interface exists between mitochondria and vacuoles"
- Feb 2014 Weizmann Metabolic Forum Seminar, Weizmann Institute of Science
Talk Title: "How Organelles Interact to Achieve Optimal Phospholipid Synthesis"
- Apr 2014 Life Sciences Department Seminar, BGU
Talk Title: "A Dynamic Interface between Vacuoles and Mitochondria in Yeast"
- Apr 2014 The Mitochondrial Research Hub meeting, Ein-Karem Campus, HUJI
Talk Title: "vCLAMP - A Dynamic Interface between Vacuoles and Mitochondria in Yeast"

LIST OF PUBLICATIONS

Peer Reviewed

- **Elbaz Y.**, Steiner Mordoch S., Danieli T. and Schuldiner S. (2004) In vitro Synthesis of Fully Functional EmrE, a Multidrug Transporter and Study of its Oligomeric State. *Proc. Natl. Acad. Sci. U S A.* 101:1519-24
- Ninio S., **Elbaz Y.** and Schuldiner S. (2004) The Membrane Topology of EmrE – a Small Multidrug Transporter from Escherichia coli. *FEBS Lett.* 562: 193-6

- **Elbaz Y.**, Tayer N., Steinfels E., Steiner Mordoch S. and Schuldiner, S. (2005) Substrate Induced Tryptophan Fluorescence Change in EmrE, the Smallest Ion-Coupled Multidrug Transporter. *Biochemistry* 44:7369-77
- **Elbaz Y.**, Salomon T. and Schuldiner S. (2008) Identification of a glycine motif required for packing in EmrE, a multidrug transporter from E. coli. *J. Biol. Chem.* 283:12276-83
- **Elbaz Y.**, Danieli T., Kanner B.I. and Schuldiner S. (2010) Expression of Neurotransmitter Transporters for Structural and Biochemical Studies. *Protein Exp. Purif.* 73:152-60
- Herzig Y., Sharpe H.J., **Elbaz Y.**, Munro S. and Schuldiner M. (2012) A systematic approach to pair secretory cargo receptors with their cargo suggests a mechanism for cargo selection by Erv14. *PLoS Biol.* 10(5):e1001329
- Papic D.*, **Elbaz-Alon Y.***, Koerdt S.N., Leopold K., Jung M., Worm D. Rapaport D. and Schuldiner M. (2013) The role of Djp1 in import of the mitochondrial protein Mim1 demonstrates specificity between a co-chaperone and its substrate protein. *Mol. Cell. Biol.* 33:4083-94
* Co-first author
- Cohen Y., Klug YA., Dimitrov L., Erez Z., Chuarzman S.G., Elinger D., Yofe I, Soliman K, Gartner J, Thoms S., Schekman R., **Elbaz-Alon Y.***, Zalckvar E.* and Schuldiner M.* (2014) Peroxisomes are juxtaposed to strategic sites on mitochondria. *Mol. BioSyst.* 10: 1742-8.
* Corresponding author

This paper was highlighted in the New & Noteworthy category of the SGD blog.

See <http://www.yeastgenome.org/pinpointing-peroxisomes>

- **Elbaz-Alon Y.** Rosenfeld-Gur E., Shinder V., Futerman A.H., Geiger T. and Schuldiner M. (2014) A dynamic interface between vacuoles and mitochondria in yeast. *Dev Cell* 30: 95-102.

This paper was highlighted in *Developmental Cell* and in *Nature Reviews Molecular Cell Biology*:

- Klecker T. and Westermann B. (2014) Mitochondria are clamped to vacuoles for lipid transport. *Dev Cell* 30: 1-2.
- Organelles dynamics: Getting in touch. (2014) *Nature Rev MCB*. doi:10.1038/nrm3858.
- **Elbaz-Alon Y.**, Morgan B., Clancy A., Amoako T.N., Zalckvar E., Dick T.P., Schwappach B. and Schuldiner M. (2014) The yeast oligo-peptide transporter Opt2 links the peroxisome to cytosolic and mitochondrial glutathione redox homeostasis. *FEMS Yeast Research*. doi: 10.1111/1567-1364.12196. Epub ahead of print.
- Brill S, Sade-Falk O, **Elbaz-Alon Y**, Schuldiner S (2015). Specificity Determinants in Small Multidrug Transporters. *J Mol Biol.* 427:468-77

- **Elbaz-Alon Y**, Eisenberg-Bord M, Shinder V, Stiller SB, Shimoni E, Wiedemann N, Geiger T, Schuldiner M (2015). Lam6 Regulates The Extent of Contacts Between Organelles (Cover). **Cell Reports** 12:7-14

This paper was highlighted in the Spotlight section of Trends in Cell Biology:

- Gonzalez Montoro A. and Ungermann C. (2015) StARTing to understand membrane contact sites. **Trends Cell Biol.** doi: 10.1016/j.tcb.2015.07.001. [Epub ahead of print]

Reviews

- **Elbaz Y.** & Schuldiner S. (2008) Drug Transport in Living Systems. In: **Wiley Encyclopedia of Chemical Biology**. T. P. Begley (Ed). John Wiley & Sons, Inc.
- **Elbaz Y.** & Schuldiner M. (2011) Staying in touch: the molecular era of organelle contact sites. **Trends Biochem. Sci.** 36:616-23
- **Elbaz Y.** & Schuldiner S. (2012) Chapter 7: Drug Transport in Living Systems. In: **Chemical Biology. Approaches to Drug Discovery and Development to Targeting Disease**. N. Civjan (Ed). John Wiley & Sons, Ltd.