

## Or David Shahar

### Curriculum Vitae

#### **Contact details**

E-mail: or@migal.org.il, or@shaharlab.com

Mobile phone: +972 50 7338331

#### **Current position**

Principal investigator: head of the laboratory for molecular dynamics in the brain (Molecular Neurodynamics) at MIGAL Galilee Research Institute.

#### **Education**

2007-2013 Ph.D. in genetics. Department of Genetics, The Hebrew University of Jerusalem. Advisor: Prof. Michal Goldberg.

2005-2007 M.Sc. in genetics. Department of Genetics, The Hebrew University of Jerusalem. Advisor: Prof. Michal Goldberg.

2001-2004 B.Sc. in life sciences. The Hebrew University of Jerusalem. Graduated with excellence.

#### **Employment and ventures**

12/2020- Group leader, Migal Galilee Research Institute.

10/2019- Initiative in collaboration with Ramot and the Bar Lab of Tel Aviv University for high-throughput production of antibodies.

2/2019-8/2019 Guest scientist. Max Planck Institute for Brain Research, Germany.

11/2013-1/2019 EMBO and Marie Curie Postdoctoral fellow. Max Planck Institute for Brain Research, Germany. Host: Prof. Erin Schuman.

3/2013-9/2013 Postdoctoral fellow. Department of Genetics, The Hebrew University of Jerusalem.

#### **Fellowships and awards**

2016 EMBO long-term fellowship.

2015 Marine Biology Lab (MBL) scholarship award (100%).

2014-2016 Marie Curie Intra-European fellowship.

2012 EMBO short-term fellowship award.

2012 Aharon Katzir Student Travel Fellowship.

2009 Anisfeld scholarship for excellent PhD students.

2009 Prize for the best poster presentation in the faculty – 1st place.

2008 Polak prize for excellence in research and academic achievements.

2007 Weirth scholarship for outstanding students.

2006 Rudin scholarship for outstanding students during M.Sc.

2001-2004 'Etgar' program for outstanding students in life sciences.

#### **Teaching experience**

2014-2015 Teaching in the course 'Modern Techniques in Neuroscience', Max Planck Institute for Brain Research, Frankfurt.

2008-2011 Teaching assistant for the course 'Introduction to probability and statistics', The Hebrew University of Jerusalem.

2005-2007 Teaching assistant for the course 'General Genetics A', Hebrew University of Jerusalem.

#### **Further professional training**

2019 EMBO Lab Management Course, Heidelberg, Germany.

2015 Zebrafish Development and Genetics Course, Marine Biology Lab (MBL), Woods Hole, USA.

2015 Marine Fish Course by Charles River, London, UK.

**Other activity**

2021	Outreach lecture for Unistream. Exposing young students from the periphery to science and innovation, Kfar Giladi, Israel.
2021	Guest editor of a special issue of 'Frontiers in Neuroscience - Neuroenergetics, Nutrition, and Brain Health'.
2018	Outreach lecture 'Into the brain of a transparent fish' as part of the 'Bar Of Science' lecture series, Frankfurt, Germany.
2017	Initiating and organizing a series of science outreach lectures that has since become a yearly tradition: 'Bar Of Science', Frankfurt, Germany.
2009-2011	Volunteering activity at ELEM, a non-profit organization for youth in distress, Jerusalem.
2007-2007	Elected chair of the junior teaching and research staff organization at The Hebrew University of Jerusalem.

**Conferences and invited seminars**

2021	The 6 <sup>th</sup> Israeli Zebrafish Meeting, Jerusalem. (Oral presentation and chair of the neurobiology session)
2019	Invited lecture at CNRS Toulouse, France: 'From DNA Damage Response to cell-type-specific labeling of newly synthesized proteins' (oral presentation).
2017	The 5th Israeli zebrafish meeting, Be'er-Sheva (oral presentation).
2017	FISEB (ILANIT) Eilat (oral presentation).
2017	Behaviour 2017, Estoril, Portugal (poster).
2016	The Fish Meeting, Frankfurt, Germany (oral presentation).
2016	Imaging Structure and Function in the Zebrafish Brain, Martinsried, Germany (poster).
2016	EMBO conference, Dendritic Anatomy, Molecules and Function, Crete, Greece (poster).
2012	Gordon Research Conference, DNA Damage, Mutation, and Cancer, California, USA (oral presentation).
2012	The 14th International A-T Workshop, ATW, Delhi, India (oral presentation).
2011	Invited lecture at IGBMC, 2011, France (oral presentation).
2011	Israeli Live Imaging Forum, Weizmann Institute, Rehovot (oral presentation).
2010	Maintenance of Genome Stability, Antigua (poster presentation).
2010	Genome Stability Meeting 2010, BGU, Be'er Sheva (oral presentation).

**Publications**

1. **Shahar OD** and Schuman EM. Large-scale cell-type-specific imaging of protein synthesis in a vertebrate brain. DOI: 10.7554/eLife.50564. **Elife**. 2020.
2. Langebeck-Jensen K, **Shahar OD**, Schuman EM, Langer JD, Ryu S. Larval Zebrafish Proteome Regulation in Response to an Environmental Challenge. doi:10.1002/pmic.201900028. **Proteomics**. 2019.
3. **Shahar OD\***, Kalousi A\*, Eini L, Fisher B, Weiss A, Darr J, Mazina O, Bramson S, Kupiec M, Eden A, Meshorer E, Mazin AV, Brino L, Goldberg M, Soutoglou E. A high-throughput chemical screen with FDA approved drugs reveals that the antihypertensive drug Spironolactone impairs cancer cell survival by inhibiting homology directed repair. doi: 10.1093/nar/gku217. **Nucleic Acids Res**. 2014.
4. **Shahar OD**, Gabizon R, Feine O, Alhadeff R, Ganoth A, Argaman L, Shimshoni E, Friedler A, Goldberg M. acetylation of lysine 382 and phosphorylation of serine 392 in p53 modulate the interaction between p53 and MDC1 in vitro. doi: 10.1371/journal.pone.0078472. **PLoS One**. 2013.
5. Nowarski R, Wilner O, **Shahar OD**, Baraz L, Cheshin O, Kenig E, Britan-Rosich E, Nagler A, Goldberg M, Willner I and Kotler M. APOBEC3G enhances lymphoma cell radioresistance by promoting cytidine deaminase-dependent DNA repair. doi: 10.1182/blood-2012-01-402123. **Blood**. 2012.

6. Lemiatre C, F. B., Kalousi A, Guirouilh-Barbat J, **Shahar OD**, Hoffbeck A, Goldberg M, Betrand P, Lopez B, Lauren B, and Soutoglou E. The nucleoporin 153 regulates double strand break repair by promoting 53BP1 nuclear localization. doi: 10.1038/onc.2011.638. **Oncogene**. 2012.
7. **Shahar OD**, Edupuganti V, Shimshoni E, Hareli S, Meshorer E and Goldberg M. Live imaging of induced and controlled DNA double-strand break formation reveals extremely low repair by homologous recombination in human cells. doi: 10.1038/onc.2011.516. **Oncogene**. 2012.
8. Sklan EH, Berson A, Birikh KR, Gutnick A, **Shahar O**, Shoham S, Soreq H. Acetylcholinesterase modulates stress-induced motor responses through catalytic and noncatalytic properties. doi: 10.1016/j.biopsych.2006.03.080. **Biol Psychiatry**. 2006.

### **Patent**

**Shahar OD** and Bar DZ. "Method for high-throughput generation and sequencing of antibodies", Provisional patent application, USA, (Application Number 63/115271).