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SHIRIT YANIV

PERSONAL INFORMATION

ID 033790619

D.O.B. 30/3/1977, Haifa, Israel

Military service: Paratrooper reserve unit October 1995-July 1997

Citizenship: Israel, USA, Romania

Address: 2 Herzog St, Rehovot, 7648201 Israel

WORK HISTORY

WEIZMANN INSTITUTE OF SCIENCE, ASSISTANT STAFF SCIENTIST, DEPT OF MOLECULAR CELL BIOLOGY

Lab of Oren Schuldiner

Research on the development of the nervous system, using the *Drosophila* fly as a model. We sought to understand the refinement of the central nervous system that occurs in humans after birth. Dysregulation of this refinement has been implicated in Schizophrenia, Alzheimer's disease and autism.

Responsibilities included strategizing and implementing research plans, overseeing M.Sc. and Ph.D. students, writing manuscripts and grant proposals.

2016-2019

WEIZMANN INSTITUTE OF SCIENCE, SENIOR INTERN, DEPT OF MOLECULAR CELL BIOLOGY,

Lab of Oren Schuldiner

2013-2016

USTECH DISCOVERY LLC, ANALYST FOR A TECHNOLOGY TRANSFER FIRM, ISRAEL

2008

Responsibilities included researching technology based patents, preparation of marketing materials and searching for a possible collaborator or buyer of said patent.

RAMBAM MEDICAL CENTER, SCIENTIFIC ADVISOR TO PROF JUDITH AHARON

2007-2008

Assisted Prof Aharon in reading and assessing ISF grants and in submitting clinical trial proposals to the Helsinki committee

EDUCATION

POSTDOCTORAL FELLOW, DEPT OF MOLECULAR CELL BIOLOGY, WEIZMANN INSTITUTE OF SCIENCE

2009-2013

The lab focuses on the development of the nervous system, using the *Drosophila* mushroom body as a model.

Advisor: Prof. Oren Schuldiner

Ph.D. MEDICAL SCIENCES, B RAPPAPORT SCHOOL OF MEDICINE, TECHNION, HAIFA

2003-2008

Dissertation: "Glucocorticoid - norepinephrine interactions at the level of intracellular signaling; implications to the plasticity hypothesis of major depression and its treatment"

Advisors: Prof. Dorit Ben-Shachar and Prof. Ehud Klein

M.Sc. MEDICAL SCIENCES, HADASSAH MEDICAL SCHOOL, HEBREW UNIVERSITY, JERUSALEM

2001-2003

Thesis: "Prenatal heroin exposure alters cholinergic receptor stimulated activation of the PKCβII and PKCγ isoforms"

Advisor: Prof. Joseph Yanai

Honors: Cum Laude

B.Sc. LIFE SCIENCES, HEBREW UNIVERSITY, JERUSALEM

1997-200

SKILLS

Hebrew and English mother tongue, basic French

Participated in the writing and proofreading of all manuscripts and grant proposals from the Schuldiner lab

Molecular biology techniques such as DNA cloning, PCR, CRISPR/Cas9 DNA editing, protein extraction and purification, SDS/PAGE, Western blotting

Confocal and fluorescence microscopy

In vivo (mouse and flies) and *in vitro* cellular models

Mentored and trained over 10 graduate students throughout my career at Weizmann

Mentored high school students through the Weizmann Davidson Institute's Alpha program

Proficient in Microsoft Office, Adobe InDesign, Adobe Illustrator, EndNote, R, SnapGene

Accredited Kripalu yoga teacher and teach a weekly free yoga class open to all Weizmann Institute students and staff

LIST OF PUBLICATIONS

Yaniv SP, Meltzer H, Alyagor I, Schuldiner O (2019) Developmental axon regrowth and primary neurons sprouting utilize distinct actin elongation factors. Under revision to ***Journal of Cell Biology***

Sudarsanam S*, Meltzer H, Schuldiner O, **Yaniv SP*** (2019) Cofilin regulates axon growth and branching of *Drosophila* γ neurons by facilitating microtubule protrusion. Under revision to ***Journal of Cell Science*** * equal contribution

Yaniv, SP and Schuldiner O (2018) Pebbled makes ripples: A transcription factor primes glutamatergic but not cholinergic neurons for degeneration (commentary). ***Proc Natl Acad Sci USA*** *115(6): 1140-2*

Rabinovich D*, **Yaniv SP***, Alyagor I, Schuldiner, O (2016) Nitric Oxide as a Switching Mechanism between Axon Degeneration and Regrowth during Developmental Remodeling. ***Cell*** *164(1-2):170-82* * equal contribution

Yaniv SP and Schuldiner O (2016) A fly's view of neuronal remodeling (review). ***Wiley Interdiscip Rev Dev Biol*** *5(5):618-35*

Bornstein B, Zehavi EE, Gelley S, Zoosman M, **Yaniv SP**, Fuchs O, Perlson E, Schuldiner O (2015) Developmental axon pruning requires destabilization of cell adhesion by JNK signaling. ***Neuron*** *88(5):926-940*.

Hakim Y, **Yaniv SP**, Schuldiner O. (2014) Astrocytes Play a Key Role in *Drosophila* Mushroom Body Axon Pruning. ***PLoS One*** *DOI: 10.1371/journal.pone.0086178*

Yaniv SP, Issman-Zecharya N, Oren-Suissa M, Podbilewicz B, Schuldiner O. (2012) Axon re-growth during development and regeneration following injury share molecular mechanisms. ***Current Biology*** *22(19):1774-82*.

Yaniv SP, Lucki A, Klein E, Ben-Shachar D. (2010) Dexamethasone enhances norepinephrine induced activation of ERK/MAPK intracellular pathway possibly via dysregulation of the α_2-adrenergic receptor: implications for antidepressant drug mechanism of action. ***European Journal of Cell Biology*** *89(9):712-722*

Yaniv SP, Ben-Shachar D, Klein E. (2008) Norepinephrine-glucocorticoids interaction does not annul the opposite effects of each treatment on cellular plasticity; relevance to major depression and its treatment. ***European Journal of Pharmacology*** *596(1-3):14-24*.

Yaniv SP, Naor Z, Yanai J. (2004) Prenatal heroin exposure alters cholinergic receptor stimulated activation of the PKCβII and PKCγ isoforms. ***Brain Research Bulletin****, 63(4) 339-349*