Goldstein Robert, PhD candidate

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DOB: Aug, 1984 South Carolina, USA (Dual ISR and US citizenship)

2014 – Today PhD student in neurobiology

Pain transduction and plasticity research group of Prof. Binshtok Alex, the department of Medical Neurobiology. In my PhD studies I am investigating the transduction and propagation of pain inducing stimuli. I do so by studying ion currents and membrane potential at the peripheral nociceptive nerve terminals in the mouse cornea and hind paw by means of fast optical recordings *in-vivo* and *in-vitro*.

Teachers Assistant, system physiology course for medical students at the Faculty of Medicine, the Hebrew University of Jerusalem.

2013 – 2014 MSc

Graduate in Bio- Medical sciences at Pain transduction and plasticity research group of Prof. Binshtok Alex, faculty of Medicine, the Hebrew University of Jerusalem. MSc acquired via straight through PhD program. **On the Dean's list for excellence in Graduate studies.**

2011 – 2013 BASc

Bachelor of Applied Science in Bio- Medical sciences, faculty of Medicine, the Hebrew University of Jerusalem **Graduated with Honours**

International/National Congresses/Meetings

2018 World Congress on Pain, Boston, USA 12-16 Sep. 2018**,** attended and presented.

European Pain School 2017 (EPS), Sienna, Italy. Class of 2017 focused on: CNS vs PNS Contributions to Persistent Pain (2-11 June).

FENS Featured Regional Meeting (FFRM), Ioannis Vellidis Congress Center, Thessaloniki 7-10 October 2015. Full length lecture given titled "Pain at its source: Signal transduction and propagation at the nociceptive peripheral terminal".

Axons in the desert II, Research Workshop of the Israel Science Foundation, Ein Gedi 2015. Poster presentation.

Scientific Conference of the Institute for Medical Research Israel-Canada (IMRIC), Dead Sea, Israel 2015. Poster presentation.

Israel Society of Physiology & Pharmacology (ISPP) Meeting, 2014. Poster presentation and swift student presentation.

Scientific Prizes, Awards and Scholarships

Jerusalem Brain Community (JBC) travel grant 2018, travel grant to attend and present at the World Congress on Pain, Boston, USA.

Travel Grant, The Hebrew University Center for Research on Pain 2015 grant to participate and give a talk at the Federation of European Neurosciences Societies (FENS) Featured Regional Meeting (FFRM).

The Hoffman Leadership and Responsibility Program 2015 – 2018 scholarship fellow.

Excellent poster presentation Prize 2015 Scientific Conference of the Institute for Medical Research Israel-Canada (IMRIC).

Swift Student Presentations Prize 2014 Israel Society of Physiology & Pharmacology (ISPP) Meeting.

Volunteer Work

2016- Today- Volunteering at the **Etgarim organization (Israel Association for the Disabled)** promoting outdoor activities for persons with special needs, with special emphasis on socializing within the group.

2014-2016- Volunteering in cooperation with the **Academic prep school in the Hebrew University** to advance students in their biology studies that are from difficult socioeconomic background and with language barriers.

Military

2003 – 2007 Logistics core

Active duty to the rank of First Lieutenant

Captain in ongoing reserve duty for the northern command

Publications

1. Robert H. Goldstein, Ben Katz, Shaya Lev, Alexander M. Binshtok, "Ultrafast optical recording reveals distinct capsaicin-induced ion dynamics along single nociceptive neurite terminals in vitro" J. Biomed. Opt. 22(7), 076010 (2017), doi: 10.1117/1.JBO.22.7.076010
   I was responsible for planning and executing all the experiments and analyzing the assays. I wrote the manuscript with the help of my PI, Prof. Binshtok.

2. Barkai Omer, Goldstein Robert H., Caspi Yaki, Katz Ben, Lev Shaya, Binshtok Alexander M. “The Role of Kv7/M Potassium Channels in Controlling Ectopic Firing in Nociceptors”, Frontiers in Molecular Neuroscience 10, 181 (2017), doi: 10.3389/fnmol.2017.00181

I was responsible for the in- vivo multi-photon z stack reconstruction of terminals and axonal trees of free nerve endings innervating the mouse hind paw which formed a bases for creating the in-silico model for voltage propagation along a terminal tree.