

Efrat Flashner-Abramson

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Education

2015 - 2020: Post-doctoral fellow with Dr. Nataly Kravchenko-Balasha, The Bio-Medical Sciences Department, Institute of Dental Medicine, Hebrew University of Jerusalem, Israel.

2010 - 2015: PhD thesis: "*Novel anti-cancer tyrosinase inhibitors act as dual inhibitors of IGF1R/IRS1-2 & STAT3 pathways*". Supervised by Prof. Alexander Levitzki, Institute of Life Sciences, the Hebrew University of Jerusalem, Israel.

2007 - 2010: MSc "*Using peptides to affect the dynamic equilibrium of amyloid β aggregation*". Supervised by Prof. Assaf Friedler and Dr. Uri Raviv, Institute of Chemistry, the Hebrew University of Jerusalem, Israel.

2004 - 2007: B.Sc. in chemistry and physics, the Hebrew University of Jerusalem, Israel.

Professional experience

Scientific writing, editing and design, 2020 – present: I write and edit scientific texts, and design and create illustrations and graphical abstracts.

Post-doctoral fellowship, 2015 - 2020: I was the scientific writer and editor of the laboratory. The editing included re-organization of the text, verifying the match between the selected title and the message being conveyed, scientific advice regarding additional experiments and validations, graphic design of illustrations utilizing Adobe Creative Cloud software, graphical editing of experimental figures, and proofreading. As a founding member of the laboratory I also gathered and wrote experimental protocols, ordered laboratory instruments and materials, and created and maintained an inventory of supplies. I conducted my own research and taught and advised students.

Parenting Counseling, 2018 - present: I own a business, where I help parents to establish a close, open-hearted, and authentic relationship with their children, using nonviolent communication. I give lectures, teach workshops, and counsel individual parents.

Teaching experience

2013 - 2015: Head of assistant teachers in the "Introduction to Biochemistry" course for biology students at the Hebrew University of Jerusalem.

2010 - 2012: Assistant teacher in the "Introduction to Biochemistry" course for biology students at the Hebrew University of Jerusalem.

2009: Head supervisor at the organic chemistry lab for chemical engineering students at Hadassah College, Jerusalem.

2008 - 2009: Assistant teacher in the physical chemistry lab for chemistry students at the Hebrew University of Jerusalem.

2008 - 2009: Assistant teacher in the instrumental chemistry lab for chemical engineering students at Hadassah College, Jerusalem.

List of Publications

1. Vasudevan S*, Flashner-Abramson E*, Adejumobi IA, Vilencki D, Stefansky S, Rubinstein AM, Kravchenko-Balasha N, *Overcoming resistance to BRAF^{V600E} inhibition in melanoma by deciphering and targeting personalized protein network alterations*, NPJ Precision Oncology, 2020. Submitted for publication.
bioRxiv 2020.11.03.366245; doi: <https://doi.org/10.1101/2020.11.03.366245>
2. Dagan H*, Flashner-Abramson E*, Vasudevan S*, Jubran MR, Cohen E, Kravchenko-Balasha N, *Exploring Alzheimer's disease molecular variability via calculation of personalized transcriptional signatures*, Biomolecules, 2020. 10(4): 503.

3. Flashner-Abramson E, Vasudevan S, Adejumobi IA, Sonnenblick S, Nataly Kravchenko-Balasha, *Decoding cancer heterogeneity: Using an information-theoretic approach to crack patient-explicit protein networks*, Theranostics, 2019. 9(18): 5149-5165.
4. Flashner-Abramson E, Abramson J, White FM, Kravchenko-Balasha N, *A thermodynamic-based approach for the resolution and prediction of protein network structures*, Chem. Phys., 2018. 514: 20-30.
5. Vasudevan S, Flashner-Abramson E, Remacle F, Levine RD, Kravchenko-Balasha N, *Personalized disease signatures through information-theoretic compaction of big cancer data*. PNAS, 2018. 115(30): 7694-7699.
6. Su SP, Flashner-Abramson E, Klein S, Gal M, Lee RS, Wu J, Levitzki A, Daly RJ, *Impact of the anticancer drug NT157 on tyrosine kinase signaling networks*, Mol. Cancer Ther., 2018. 17(5): 931-942.
7. Langut Y, Edinger N, Flashner-Abramson E, Melamed-Book N, Lebendiker M, Levi-Kalishman Y, Klein S, Levitzki A, *PSMA-homing dsRNA chimeric protein vector kills prostate cancer cells and activates anti-tumor bystander responses*, Oncotarget, 2017. 8(15): 24046-24062.
8. Langut Y, Talhami A, Mamidi S, Shir A, Zigler M, Joubran S, Sagalov A, Flashner-Abramson E, Edinger N, Klein S, Levitzki A, *PSMA-targeted polyinosine/polycytosine vector induces prostate tumor regression and invokes an antitumor immune response in mice*, PNAS, 2017. 114(52): 13655-13660.
9. Flashner-Abramson E, Klein S, Mullin G, Shoshan E, Song R, Shir A, Langut Y, Bar-Eli M, Reuveni H, Levitzki A, *Targeting melanoma with NT157 by blocking Stat3 and IGF1R signaling*. Oncogene, 2016. 35(20): 2675-2680.
10. Sanchez-Lopez E, Flashner-Abramson E, Shalapour S, Zhong Z, Taniguchi K, Levitzki A and Karin M, *Targeting colorectal cancer via its microenvironment by inhibiting IGF1 receptor-Insulin receptor substrate and Stat3 signaling*. Oncogene, 2016. 35(20): 2634-2644.
11. *Reuveni H, *Flashner-Abramson E, Steiner L, Makedonski K, Song R, Shir A, Herlyn M, Bar-Eli M, Levitzki A, *Therapeutic destruction of insulin receptor substrates for cancer treatment*. Cancer Res., 2013. 73(14): 4383-4394.
12. Flashner E, Raviv U, Friedler A, *The effect of tachykinin neuropeptides on amyloid β aggregation*. BBRC, 2011. 407(1): 13-17.

Prizes and awards

- Best poster award, The Israeli Society for Cancer Research (ISCR) conference (2013)
- Zelinger Prize, The Hebrew University of Jerusalem (2013)

Languages

Hebrew – native speaker; English - fluently