

Academic background

- 2005 - 2011** Graduate studies, direct track, Ben Gurion University of the Negev, Faculty of Health Sciences, Department of Physiology.
Supervisor: Dr. Rony Azouz. Graduation summa cum laude.
- 2002 - 2005** Bachelor's degree in Biology, Ben Gurion University of the Negev, Faculty of Natural Sciences, Department of Life Sciences. Graduation cum laude.

Employment

- 2018 -** Senior lecturer, the Edmond and Lily Safra Center for Brain Sciences (ELSC) at the Hebrew University of Jerusalem, Israel.
- 2017- 2018** Research Associate. Champalimaud Neuroscience Programme, Lisbon, Portugal.
Supervisor: Dr. Zachary Mainen
- 2011 - 2017** Postdoctoral fellow. Champalimaud Neuroscience Programme, Lisbon, Portugal.
Supervisor: Dr. Zachary Mainen

Publications

- Lottem E, Azouz R. Dynamic translation of surface coarseness into whisker vibrations. *J Neurophysiol.* 2008;100(5).
- Lottem E, Azouz R. Mechanisms of tactile information transmission through whisker vibrations. *J Neurosci.* 2009;29(37).
- Lottem E, Azouz R. A unifying framework underlying mechanotransduction in the somatosensory system. *J Neurosci.* 2011;31(23).
- Dugué GP, Lörincz ML, Lottem E, Audero E, Matias S, Correia PA, et al. Optogenetic recruitment of dorsal raphe serotonergic neurons acutely decreases mechanosensory responsivity in behaving mice. *PLoS One.* 2014;9(8).
- Lottem E*, Gugig E*, Azouz R. Parallel Coding Schemes of Whisker Velocity in the Rat's Somatosensory System. *J Neurophysiol.* 2014;113(6).
- Lottem E*, Lörincz ML*, Mainen ZF. Optogenetic activation of dorsal raphe serotonin neurons rapidly inhibits spontaneous but not odor-evoked activity in olfactory cortex. *J Neurosci.* 2016;36(1).
- Correia PA*, Lottem E*, Banerjee D, Machado AS, Carey MR, Mainen ZF. Transient inhibition and long-term facilitation of locomotion by phasic optogenetic activation of serotonin neurons. *Elife.* 2017;6.
- Matias S*, Lottem E*, Dugué GP, Mainen ZF. Activity patterns of serotonin neurons underlying cognitive flexibility. *Elife.* 2017;6.
- Lottem E, Banerjee D, Vertech P, Sarra D, oude Lohuis M, Mainen ZF. Activation of serotonin neurons promotes active exploitation in a probabilistic foraging task. *nature communications.* 2018 8;9(1):1000.

* Co-first authors.