

ELSC Member's Publications: January – June 2023

Merav Ahissar

1. Malinovitch T, Albouy P, Zatorre RJ, **Ahissar M**. Training allows switching from limited-capacity manipulations to large-capacity perceptual processing. *Cereb Cortex*. 2023 Feb 20;33(5):1826-1842. doi: 10.1093/cercor/bhac175.
2. Khayat N, **Ahissar M**, Hochstein S. Perceptual history biases in serial ensemble representation. *J Vis*. 2023 Mar 1;23(3):7. doi: 10.1167/jov.23.3.7.
3. Kasten K, Jacoby N, **Ahissar M**. Poor synchronization yet adequate tempo-keeping in adults with autism. *Autism Res*. 2023 Jun;16(6):1161-1173. doi: 10.1002/aur.2926.

Lilach Avitan

4. Zhu SI, McCullough MH, Pujic Z, Sibberas J, Sun B, Darveniza T, Bucknall B, **Avitan L**, Goodhill GJ. *fmr1* Mutation Alters the Early Development of Sensory Coding and Hunting and Social Behaviors in Larval Zebrafish. *J Neurosci*. 2023 Feb 15;43(7):1211-1224. doi: 10.1523/JNEUROSCI.1721-22.2022.
5. Suárez R, Bluett T, McCullough MH, **Avitan L**, Black DA, Paolino A, Fenlon LR, Goodhill GJ, Richards LJ. Cortical activity emerges in region-specific patterns during early brain development. *Proc Natl Acad Sci U S A*. 2023 May 30;120(22):e2208654120. doi: 10.1073/pnas.2208654120.

Hagai Bergman

6. Wolke R, Becktepe JS, Paschen S, Helmers AK, Kübler-Weller D, Youn J, Brinker D, **Bergman H**, Kühn AA, Fasano A, Deuschl G. The Role of Levodopa Challenge in Predicting the Outcome of Subthalamic Deep Brain Stimulation. *Mov Disord Clin Pract*. 2023 Jul 11;10(8):1181-1191. doi: 10.1002/mdc3.13825.
7. Shamir RR, Joskowicz L, **Bergman H**. Image-based planning of electric neurological treatments. *Frontiers in Human Neuroscience*. 2023 Jan 10;16:1089818.
8. Katabi S, Adler A, Deffains M, **Bergman H**. Dichotomous activity and function of neurons with low- and high-frequency discharge in the external globus pallidus of non-human primates. *Cell Rep*. 2023 Jan 31;42(1):111898. doi: 10.1016/j.celrep.2022.

9. Kalita S, **Bergman H**, Dubey KD, Shaik S. How Can Static and Oscillating Electric Fields Serve in Decomposing Alzheimer's and Other Senile Plaques? *J Am Chem Soc.* 2023 Feb 15;145(6):3543-3553. doi: 10.1021/jacs.2c12305.
10. Weill C, Gallant A, Baker Erdman H, Abu Snineh M, Linetsky E, **Bergman H**, Israel Z, Arkadir D. The Genetic Etiology of Parkinson's Disease Does Not Robustly Affect Subthalamic Physiology. *Mov Disord.* 2023 Mar;38(3):484-489. doi: 10.1002/mds.29310.
11. Weill C, Gallant A, Baker Erdman H, Abu Snineh M, Linetsky E, **Bergman H**, Israel Z, Arkadir D. Reply to: "Subthalamic Physiology in Genetic Subtypes of Parkinson's Disease". *Mov Disord.* 2023 Jun;38(6):1114. doi: 10.1002/mds.29408.

Alexander Binshtok

12. Katz B, Zaguri R, Edvardson S, Maayan C, Elpeleg O, Lev S, Davidson E, Peters M, Kfir-Erenfeld S, Berger E, Ghazalin S, **Binshtok AM**, Minke B. Nociception and pain in humans lacking a functional TRPV1 channel. *J Clin Invest.* 2023 Feb 1;133(3):e153558. doi: 10.1172/JCI153558.
13. Barkai O, Rayi PR, Buttermann R, Katz B, Lev S, **Binshtok AM**. Encoding of inflammatory hyperalgesia in mouse spinal cord. *Pain.* 2023 Feb 1;164(2):443-460. doi: 10.1097/j.pain.0000000000002727.

Ami Citri

14. Ramsakha N, Ojha P, Pal S, Routh S, **Citri A**, Bhattacharyya S. A vital role for PICK1 in the differential regulation of metabotropic glutamate receptor internalization and synaptic AMPA receptor endocytosis. *J Biol Chem.* 2023 Jun;299(6):104837. doi: 10.1016/j.jbc.2023.104837.
15. Terem A, Fatal Y, Peretz-Rivlin N, Turm H, Koren SS, Kitsberg D, Ashwal-Fluss R, Mukherjee D, Habib N, **Citri A**. Claustal neurons projecting to frontal cortex restrict opioid consumption. *Curr Biol.* 2023 Jul 10;33(13):2761-2773.e8. doi: 10.1016/j.cub.2023.05.065.

Leon Deouell

16. Furstenberg A, Sompolinsky H, **Deouell LY**. Error monitoring when no errors are possible: Arbitrary free-choice decisions invoke error monitoring processes. *iScience.* 2023 Mar 10;26(4):106373. doi: 10.1016/j.isci.2023.106373.

Yosef Grodzinsky

17. Tan IA, Kugler-Etinger N, **Grodzinsky Y**. Do two negatives make a positive? Language and logic in language processing. *Language, Cognition and Neuroscience*. 2023 May 4:1-7.

Naomi Habib

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20. Yayon N, Amsalem O, Zorbaz T, Yakov O, Dubnov S, Winek K, Dudai A, Adam G, Schmidtner AK, Tessier-Lavigne M, Renier N, **Habib N**, Segev I, London M, Soreq H. High-throughput morphometric and transcriptomic profiling uncovers composition of naïve and sensory-deprived cortical cholinergic VIP/CHAT neurons. *EMBO J*. 2023 Jan 4;42(1):e1110565. doi: 10.15252/embj.2021110565.
21. Filo S, Shaharabani R, Bar Hanin D, Adam M, Ben-David E, Schoffman H, Margalit N, **Habib N**, Shahar T, Mezer AA. Non-invasive assessment of normal and impaired iron homeostasis in the brain. *Nat Commun*. 2023 Sep 12;14(1):5467. doi: 10.1038/s41467-023-40999-z.

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Mati Joshua

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Leo Joskowicz

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- ❖ Shamir RR, **Joskowicz L**, Bergman H. Image-based planning of electric neurological treatments. *Frontiers in Human Neuroscience*. 2023 Jan 10;16:1089818.
26. Eagleson R, **Joskowicz L**. Verification, Evaluation, and Validation: Which, How & Why, in *Medical Augmented Reality System Design*. *J Imaging*. 2023 Jan 17;9(2):20. doi: 10.3390/jimaging9020020.
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Yonatan Loewenstein

33. Shulman D, Dubnov S, Zorbaz T, Madrer N, Paldor I, Bennett DA, Seshadri S, Mufson EJ, Greenberg DS, **Loewenstein Y**, Soreq H. Sex-specific declines in cholinergic-targeting tRNA fragments in the nucleus accumbens in Alzheimer's disease. *Alzheimers Dement.* 2023 May 9. doi: 10.1002/alz.13095.
34. Elber-Dorozko L, **Loewenstein Y**. Do Retinal Neurons Also Represent Somatosensory Inputs? On Why Neuronal Responses Are Not Sufficient to

Determine What Neurons Do. *Cogn Sci.* 2023 Apr;47(4):e13265. doi: 10.1111/cogs.13265.

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Aviv Mezer

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Baruch Minke

- ❖ Katz B, Zaguri R, Edvardson S, Maayan C, Elpeleg O, Lev S, Davidson E, Peters M, Kfir-Erenfeld S, Berger E, Ghazalin S, Binshtok AM, **Minke B**. Nociception and pain in humans lacking a functional TRPV1 channel. *J Clin Invest.* 2023 Feb 1;133(3):e153558. doi: 10.1172/JCI153558.

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Idan Segev

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Hermona Soreq

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