

CV - Shlomo Wagner, Ph.D.

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Education

Hebrew University of Jerusalem	Biology	B.Sc., 1993
Hebrew University of Jerusalem	Neuroscience	M.Sc., 1997
Hebrew University of Jerusalem	Neuroscience	Ph.D., 2000

Postdoctoral

Harvard University	Neuroscience	2000-2004
Hebrew University of Jerusalem	Neuroscience	2005-2006

Employment

2017 – Current: Associate Professor and Head of the Laboratory for Neurobiology of Social Behavior, University of Haifa, Haifa, Israel.

2013-2017: Senior Lecturer and Head of the Laboratory for Neurobiology of Social Behavior, University of Haifa, Haifa, Israel.

2007-2013: Lecturer and Head of the Laboratory for Neurobiology of Social Behavior, University of Haifa, Haifa, Israel.

Honors

1997 Hebrew University Intel - Dean's award

1998 Fulbright post-doctoral fellowship (not used).

1998 Rothschild Foundation post-doctoral fellowship (not used).

1998 EMBO long-term post-doctoral fellowship.

2005 Post-doctoral fellowship of the Interdisciplinary Center for Neural Computation (ICNC)

2006 The Charles E. Smith fellowship in Honor of Prof. Joel Elkes of the National Institute for Psychobiology in Israel

Papers

1. **Wagner, S.**, *Urocortins and their unfolding role in mammalian social behavior*, **Cell Tissue Res.** 2018 Nov 21. doi: 10.1007/s00441-018-2962-3
2. Cohen, L., Maroun, M., and **Wagner, S.**, *Behavior: Oxytocin Promotes Fearless Motherhood*, **Current Biology** 28(8):R359-R361, 2018
3. Frankiensztajn, L.M., Gur-Pollack, R. and **Wagner, S.**, *A combinatorial modulation of synaptic plasticity in the rat medial amygdala by oxytocin, urocortin3 and estrogen*, **Psychoneuroendocrinology**, 92:94-102, 2018
4. Rajamani K.T., **Wagner S.**, Grinevich, V. and Harony-Nicolas, H. *Oxytocin as a Modulator of Synaptic Plasticity: Implications for Neurodevelopmental Disorders*, **Frontiers in Synaptic Neuroscience** 10:17, 2018
5. Netser, S., Haskal, S., Magalnik, H., and **Wagner, S.** *A novel system for tracking social preference dynamics in mice reveals sex- and strain-specific characteristics*, **Molecular Autism** 8:53, 2017
6. Zylbertal, A., Yarom, Y. and **Wagner, S.**, *The Slow Dynamics of Intracellular Sodium Concentration Increase the Time Window of Neuronal Integration: A Simulation Study*, **Frontiers in Computational Neuroscience**, 11:85, 2017
7. Zylbertal, A., Yarom, Y. and **Wagner, S.**, *Synchronous infra-slow bursting in the mouse accessory olfactory bulb emerge from interplay between intrinsic neuronal dynamics and network connectivity*, **J. Neuroscience**, 37(10): 2656-2672, 2017
8. Harony-Nicolas, H., #Kay, M., du Hoffmann,J., Bozdagi-Gunal, O., Klein, M.E., Riad, M., Daskalakis, N.P., Castillo, P.E., Hof, P.R., Shapiro, M.L., Baxter, M.G., **Wagner, S.** and Buxbaum, J.D. *Oxytocin improves social and attentional deficits in a novel genetically modified rat model of autism*, **eLife**, e18904, 2017
9. Garfinkel, BP., Arad, S., Neuner, SM., Netser, S., **Wagner, S.**, Kaczorowski, CC., Rosen, CJ., Gal, M., Soreq, H. and Orly, J. *HP1BP3 expression*

- determines maternal behavior and offspring survival*, **Genes, Brain and Behavior**, 15:678-688, 2015
10. Zylbertal, A., Kahan, A., Ben-Shaul, Y., Yarom, Y. and Wagner, S. *Prolonged Intracellular Na⁺ Dynamics Govern Electrical Activity in Accessory Olfactory Bulb Mitral Cells*, **PLOS Biology**, 2015, Dec 16;13(12):e1002319.
 11. Maroun, M. and **Wagner, S.** *Oxytocin and memory of emotional stimuli: Some dance to remember, some dance to forget*, **Biological Psychiatry**, 2016, Feb 1;79(3):203-12.
 12. Leser, N. and **Wagner, S.** *The effects of acute social isolation on long-term social recognition memory*, **Neurobiology of Learning and Memory**, 124:97-103, 2015.
 13. Tendler, A. and **Wagner, S.** *Distinct types of theta rhythmicity are induced by social and fearful stimuli in a network associated with social memory*, **eLife**, 03614, 2015.
 14. Shpak, G., Zylbertal, A. and **Wagner, S.**, *Transient and sustained afterdepolarizations in accessory olfactory bulb mitral cells are mediated by distinct mechanisms that are differentially regulated by neuromodulators*, **Frontiers in Cellular Neuroscience**, 8:432, 2015
 15. Gur, R., Tendler, A. and **Wagner, S.** *Long-term social recognition memory is mediated by protein synthesis and oxytocin-dependent LTD in the medial amygdala*, **Biological Psychiatry**, 76:377-386, 2014
 16. Harony, H., Mamrut, S., Brodsky, L., Shahar-Gold, H., Barki-Harrington, L. and **Wagner, S.**, *Brain region-specific methylation in the promoter of the murine oxytocin receptor gene correlates with its expression*, **Psychoneuroendocrinology**. 39:121-131, 2014
 17. Shahar-Gold, H., Gur, R. and **Wagner, S.** *Rapid and reversible impairment of short- and long-term social recognition memory by acute isolation of adult rats*, **PLOS ONE** 8(5):e65085, 2013

18. Mamrut, S., Harony, H., Sood, R., Shahar-Gold, H. Gainer, H., Barki-Harrington, L. and **Wagner, S.** *DNA methylation regulates the transcription of the oxytocin receptor*, 2013, ***PLOS ONE***, 8(2): e56869, 2013
19. Shpak, G., Zylbertal, A., Yarom, Y. and **Wagner, S.** *Calcium-activated sustained firing responses distinguish Accessory from main olfactory bulb mitral cells.* ***J. Neuroscience***, 32: 6251-6262, 2012.
20. Edry, E., Lamprecht, L., **Wagner, S.** and Rosenblum, K. *Viral-mediated gene manipulation in the adult CNS.* ***Frontiers in Molecular Neuroscience***, 4: 57, 2011
21. Zibman, S., Shpak, G. and **Wagner, S.** *Distinct intrinsic membrane properties determine differential information processing between main and accessory olfactory bulb mitral cells.* ***Neuroscience***, 189:51-67, 2011.
22. Harony, H. and **Wagner, S.** *The Contribution of Oxytocin and Vasopressin to Mammalian Social Behavior: Potential Role in Autistic Spectrum Disorder,* ***NeuroSignals*** 18:82-97, 2010.
23. **Wagner, S.** and Yarom, Y. *Excitation by GABA in the SCN reaches its time and place,* ***Eur. J. Neuroscience*** 30:1461, 2009.
24. Dulac, C and **Wagner, S.** *Brain circuits underlying pheromone signaling.* ***Ann. Rev. Genetics***, 40: 449-467, 2006.
25. **Wagner, S.**, Gresser, A., Torello, A.T. and Dulac, C. *A Multi-Receptor Genetic Approach Uncovers an Ordered Integration of VNO Sensory Inputs in the Accessory Olfactory Bulb.* ***Neuron***, 50: 697-709, 2006.
26. **Wagner, S.**, Sagiv, N. and Yarom, Y., *GABA-induced current and circadian regulation of chloride in neurones of the rat suprachiasmatic nucleus.* ***J. Physiol.*** 537 :853-869, 2001.
27. **Wagner, S.**, Castel, M., Gainer, H. and Yarom, Y., *GABA in the mammalian suprachiasmatic nucleus and its role in diurnal rhythmicity.* ***Nature***, 387: 598-603, 1997.

28. Castel, M., Belenki, M., Cohen, S., **Wagner, S.** and Schwartz, W.J., *Light-induced c-FOS expression in the mouse suprachiasmatic nucleus: Immunoelectron microscopy reveals co-localization in multiple cell types.* **European J. Neuroscience**, 9: 101-111, 1997.
29. Belenky, M., **Wagner, S.**, Yarom, Y., Matzner, H., Cohen, S. and Castel, M., *The suprachiasmatic nucleus in stationary organotypic culture.* **Neuroscience** 70: 127-143, 1996.

Book Chapters

1. **Shlomo Wagner** and Hala Harony-Nicolas, Oxytocin and Autism Spectrum Disorder, in **Behavioral Pharmacology of Neuropeptides: Oxytocin**, Edited by Rene Hurlemann and Valery Grinevich, 2017, Springer, in press