Curriculum Vitae

Name **Prof. Dr. med. Wolfgang Kelsch**

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Education

2019	Venia legendi for Psychiatry and Psychotherapy, Heidelberg University
2018	Master of Business Administration, Mannheim University
2016	Board Certification in Psychiatry and Psychotherapy
2004	Dissertation (summa cum laude), Heidelberg University
2003	Studies in Medicine, Heidelberg University, Paris 6, University College London

Research Experience

Since 2019	**W2-Professor for Systems Neuroscience** and Group leader at MZPG and FTN, University Medical Center Mainz, Mainz University
2011 – 2019	Group Leader, **Central Institute of Mental Health**, Heidelberg University
2008 – 2010	Postdoctoral fellow, Dept. of Clinical Neurobiology, **German Cancer Research Cente**r and Heidelberg University
2005 – 2008	Postdoctoral fellow, Dept. of Brain and Cognitive Science, **Massachusetts Institute of Technology, Cambridge**, MA, USA
2004 – 2005	Fellow, **Max-Planck-Institute of Psychiatry**, Munich

Funding

2020 – 2023	Boehringer Foundation Grant
2019 – 2022	BMBF-NSF Grant 01GQ1708
2015 – 2020	DFG SFB1134 TP C04
2015 – 2020	DFG SPP1665 KE1661/2-2
2013 – 2015	DFG SPP1665 KE1661/2-1
2012 – 2015	DFG SFB636 TP B08
2011 – 2017	DFP Emmy-Noether-Program KE1661/1-1

Professional Activities and Memberships

2012 – 2020	Grant Reviewer: e.g. Deutsche Forschungsgemeinschaft, COST, BMBF
2019 – 2021	Member of the ANR Molecular Neuroscience Panel, Paris
2020	Symposium Organizer ‘Boosting social salience through Oxytocin?’, Joint Meeting AGNP and DGBP, Berlin
2017	Symposium Organizer ‘Computations - from sensations to decisions’, Tagung der Neurowissenschaftlichen Gesellschaft, Göttingen
2010 – 2020	Peer Review: e.g. Science, Nature Communication, Nature Methods, Nature Neuroscience Reviews, Neuron, PLoS Biology, Cell reports, J. Neuroendocrinology, Scientific reports
2016 – 2019	Community outreach e.g. Jury der Deutschen Neurowissenschaften-Olympiade e.V. für Schüler, Teachers visiting University

2008 – 2020	Society memberships: Deutsche Gesellschaft für Psychiatrie und Psychotherapie, Psychosomatik und Nervenheilkunde, AGNP, Society f. Neuroscience, Neurowissenschaftliche Gesellschaft, AChemS

Honors and Recognitions

2015 – 2018	Travel fellowship A.-v.-H. Foundation and Chinese Academy of Science
2014 – 2015	Chica and Heinz Schaller Fellowship
2008 – 2010	Fellowship of the Medical Faculty Heidelberg
2005 – 2008	Paul E. Newton Grant Fellowship
2004 – 2005	Fellowship Max Planck Society
1999 – 2003	Studienstiftung des Deutschen Volkes

Selected Key Publications

Oettl LL*, Scheller M*, Filosa F*, Wieland S, Haag F, Loeb C, Durstewitz D, Shusterman R, Russo E*, **Kelsch W*** (2020) Phasic dopamine reinforces distinct striatal stimulus encoding in the olfactory tubercle driving dopaminergic reward prediction. **Nature Communications** 11:3460 * shared

Clemm von Hohenberg C, Weber-Fahr W, Lebhardt P, Ravi N, Braun U, Gass N, Becker R, Sack M, Cosa Linan A, Gerchen MF, Reinwald JR, Oettl LL, Meyer-Lindenberg A, Vollmayr B, **Kelsch W***, Sartorius A* (2018). Lateral habenula perturbation reduces default-mode network connectivity in a rat model of depression. **Transl. Psychiatry** 8, 68, * shared

Oettl LL, Ravi R, Schneider M, Scheller M, Schneider P, Mitre M, Froemke RC, Chao MV, Young WS, Meyer-Lindenberg A, Grinevich V, Shusterman, **Kelsch W** (2016) Oxytocin enhances social recognition by modulating cortical control of early olfactory processing. **Neuron** 90:609-21. (Preview: Ron Stoop (2016) Sniffing and Oxytocin: Effects on Olfactory Memories. Neuron 90:431-3)

Wieland S, Schindler S, Huber C, Köhr G, Oswald MJ, **Kelsch W** (2015) Phasic Dopamine Modifies Sensory-Driven Output of Striatal Neurons through Synaptic Plasticity. **J Neurosci** 35:9946-56.

Wieland S, Dan D, Oswald M, Parlato R, Köhr G, **Kelsch W** (2014) Phasic Dopaminergic activity exert fast control of cholinergic interneuron firing by sequential NMDA, D2 and D1 receptor activation. **J Neurosci** 34:11549-59.

Lin CW, Sim S, Ainsworth A, Okada M, **Kelsch W**, and Lois C (2010). Genetically increased cell-intrinsic excitability enhances neuronal integration into adult brain circuits. **Neuron** 65, 32–39.

Kelsch W, Sim S, Lois C (2010) Watching Synaptogenesis in the Adult Brain. **Ann Rev Neurosci** 33:131-149.

Kelsch W, Lin CW, Lois C (2008) Sequential development of synapses in dendritic domains during adult neurogenesis. **PNAS** 105:16803-16808.

Kelsch W, Mosley CP, Lin CW, Lois C (2007) Distinct mammalian precursors are committed to generate neurons with defined dendritic projection patterns. **PLoS Biol** 5:1201-1212.

Kelsch W, Hormuzdi S, Straube E, Lewen A, Monyer H, Misgeld U (2001). Insulin-like growth factor 1 and a cytosolic tyrosine kinase activate chloride outward transport during maturation of hippocampal neurons. **J Neurosci** 21, 8339–8347.