

Dr. med. SEBASTIAN WIELAND**1) General information**

Date of birth: 21 August, 1984
 Gender: Male
 Address: Heidelberg University Hospital
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 Psychosomatics
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 Position: Resident (Psychosomatic Medicine),
 Junior Group Leader (Functional Neuroanatomy)
 Children: None
 Parental leave, if applicable: None

2) University training and degree

2003 - 2009 Studies in Human Medicine, Heidelberg University, Germany

3) Advanced academic qualifications

2016 Doctoral dissertation in Psychiatry (summa cum laude), Mentor: Prof. Dr. Wolfgang Kelsch; Heidelberg University, Germany

4) Postgraduate professional career

Since 2019 Principal Investigator and Junior Group Leader at CRC1158 (B04) at Department of Functional Anatomy, Prof. Dr. Thomas Kuner, Institute of Anatomy and Cell Biology, Heidelberg University, Germany
 Since 2018 Residency in Psychosomatic Medicine, Department of General Internal and Psychosomatic Medicine, Heidelberg University Hospital, Germany
 2016 - 2018 Postdoctoral fellow with Prof. Dr. Thomas Kuner, Institute of Anatomy and Cell Biology, Heidelberg University, Germany
 2014 - 2015 Residency in Internal Medicine, Department of Sports Medicine, Heidelberg University Hospital, Germany

5) OtherAwards and honours:

2016 Physician-Scientist Fellowship, Heidelberg University
 2011 NSAS travel grant

6) Publications**A)**

Gan Z, Gangadharan V, Liu S, Körber C, Tan LL, Li H, Oswald MJ, Kang J, Martin-Cortecero J, Männich D, Groh A, Kuner T, Wieland S, Kuner R. Layer-specific pain relief pathways

originating from primary motor cortex. **Science**. 2022 Dec 23;378(6626):1336-1343. doi: 10.1126/science.add4391. Epub 2022 Dec 22. PMID: 36548429

Oettl LL, Scheller M, Filosa C, Wieland S, Haag F, Loeb C, Durstewitz D, Shusterman R, Russo E, Kelsch W. Phasic dopamine reinforces distinct striatal stimulus encoding in the olfactory tubercle driving dopaminergic reward prediction. **Nature Communications**; 11(1):3460, 2020.

Wieland S, Schindler S, Huber C, Kohr G, Oswald MJ, Kelsch W. Phasic Dopamine Modifies Sensory-Driven Output of Striatal Neurons through Synaptic Plasticity. **The Journal of Neuroscience**; 35(27):9946-9956, 2015.

Wieland S, Du D, Oswald MJ, Parlato R, Kohr G, Kelsch W. Phasic dopaminergic activity exerts fast control of cholinergic interneuron firing via sequential NMDA, D2, and D1 receptor activation. **The Journal of Neuroscience**; 34(35):11549-11559, 2014.

Kelsch W, Li Z, Wieland S, Senkov O, Herb A, Gongrich C, Monyer H. GluN2B-containing NMDA receptors promote glutamate synapse development in hippocampal interneurons. **The Journal of Neuroscience**; 34(48):16022-16030, 2014.

B) other publications:

Jauch I, Kamm J, Benn L, Eich W, Kuner T, Tesarz J, Wieland S. 3MDR: a custom, microcontrolled visual stimulation apparatus for EMDR-like interventions in mice, (in revision at **eNeuro**) (bioRxiv: <https://doi.org/10.1101/2022.11.10.516035>), 2022.

C) Patents: -