

Narrative CV, Eduard Maier

Between 2008 and 2014 I studied **medicine** and experimental medicine at the University of Würzburg and received the medical license (Approbation) and a medical doctoral degree (Dr. med.) for research at the Chair for Translational Oncology. I then switched my research focus to basic neuroscience by enrolling as a **PhD** student at the Berlin Bernstein Center for Computational Neuroscience in the lab of Prof. Michael Brecht. Between 2015 and my graduation year in 2021 I investigated how touch is processed in the brain and focused on neural circuits of the rat somatosensory cortex¹⁻⁴. In the year of 2022 I was able to acquire a 2-year funded DFG Walter-Benjamin **postdoc** position (~200.000€), which allowed me to move to Mannheim and study the intersection between oxytocin, touch, maternity and cortical plasticity in the lab of Prof. Valery Grinevich at the Central Institute for Mental Health (ZI). Since 2024 I continue to investigate the neural basis of maternal care as **junior research group leader** at the ZI. We are using a variety of methods to cover molecular, cellular, network- and behavioral aspects of maternal care and we are particularly interested in how mothers and infants coordinate their behavior in different contexts and on different time scales⁵⁻⁷.

Relevant publications

1. **Maier E.** *Structure-function analysis of somatosensory nose and whisker representations.* Humboldt-Universität zu Berlin, 2022.
2. **Maier E.** and Brecht M. (2018). Layer 4 barrel cortex neurons retain their response properties during whisker replacement. *J Neurophysiol*; **120**: 2218-2231.
3. **Maier E.**, Lauer S. and Brecht M. (2020). Layer 4 organization and respiration locking in the rodent nose somatosensory cortex. *J Neurophysiol*; **124**: 822-832.
4. Sigl-Glockner J., **Maier E.**, Takahashi N., Sachdev R., Larkum M. and Brecht M. (2019). Effects of Sexual Experience and Puberty on Mouse Genital Cortex revealed by Chronic Imaging. *Curr Biol*; **29**: 3588-3599 e3584.
5. **Maier E.** and Grinevich V. (2024). Social neuroscience: How we learn to avoid the bully. *Curr Biol*; **34**: R320-R322.
6. **Maier E.** and Brecht M. (2022). Maternity: Oxytocin circuits during birth and lactation. *Curr Biol*; **32**: R921-R923.
7. Rashidi M., **Maier E.**, Dekel S., Sutterlin M., Wolf R.C., Ditzen B., Grinevich V. and Herpertz S.C. (2022). Peripartum effects of synthetic oxytocin: The good, the bad, and the unknown. *Neurosci Biobehav Rev*; **141**: 104859.