PD. Dr. rer. nat. Simone Kurt

Research Scientist and Group Leader for

Auditory Systems Neuroscience

Saarland University
Faculty of Medicine
Department of Biophysics
CIPMM | Building 48
66421 Homburg
Phone: +49-6841-16-16223
E-Mail: simone.kurt@uni-saarland.de

University training and degree

2001	Diploma in Biology
1995-2001	Studies of Biology, University of Tübingen

Advanced academic qualifications

Doctorate:	Ph.D. Neuroscience, University of Magdeburg, 2006
Habilitation:	Neurobiology/Zoology Faculty of Natural Sciences, Ulm University, 2013

Postgraduate professional career

since 2017	Research Scientist and Group Leader for Auditory Systems Neuroscience, Saarland University, Dept. Biophysics & CIPMM
2015-2016	Trainer Qualification for Didactics in Medicine (Teach the Teacher), Medical Faculty, University of Tübingen
2013-2015	Junior Professor (W1), Hannover Medical School, Cluster of Excellence “Hearing4all”
2006-2013	Research Associate, Department of Neuroscience, Ulm University

Miscellaneous

2013	Short-listed (3rd place) for Professorship (W2) ENT-Clinic, University Hospital, University of Würzburg

Ten most important publications

1. Bracic G, Hegmann K, Engel J, **Kurt S**** (2022). Impaired subcortical processing of amplitude-modulated tones in mice deficient for *Cacna2d3*, a risk gene for autism spectrum disorders in humans. *ENEURO*.0118-22.2022. doi: 10.1523/ENEURO.0118-22.2022
2. Mamach M, Kessler M Bankstahl JP, Wilke F, Geworski L, Bengel FM, **Kurt S****, Berding G** (2018). Visualization of the auditory pathway in rats with 18F-FDG PET activation studies based on different auditory stimuli and reference conditions including cochlea ablation. *PLoS One*, 13(10):e0205044. doi: 10.1371/journal.pone.0205044.
3. Quass GL, **Kurt S**, Hildebrandt KJ, Kral A (2018). Electrical stimulation of the midbrain excites the auditory cortex asymmetrically. *Brain Stimul*., 5, 1161-1174.
4. Joachimsthaler B, Uhlmann M, Miller F, Ehret G, **Kurt S****(2014). Quantitative analysis of neuronal response properties in primary and higher-order auditory cortical fields of awake house mice (Mus musculus). *Eur J Neurosci*., 39, 904-918.
5. Pirone A*, **Kurt S***, Zuccotti A, Rüttiger L, Pilz P, Brown D, Franz C, Schweizer M, Rust MB, Rübsamen R, Friauf E, Knipper M, Engel J (2014). $\alpha_2\delta 3$ is essential for normal structure and function of auditory nerve synapses and is a novel candidate for auditory processing disorders. *J Neurosci*., 34, 434-445.
6. **Kurt S****, Sausbier M, Rüttiger R, Brandt N, Moeller CK, Kindler J, Sausbier U, Zimmermann U, Winter H, Neuhuber W, Engel J, Knipper M, Ruth P, Schulze H (2012b). Critical role for cochlear hair cell BK channels for coding the temporal structure and dynamic range of auditory information for central auditory processing. *FASEB J.,* 26, 3834-3843.
7. **Kurt S**, Fisher SE, Ehret G (2012a). Foxp2 Mutations Impair Auditory-Motor-Association Learning. *PLoS One*, 7(3):e33130. doi: 10.1371/journal.pone.0033130.
8. **Kurt S**** & Ehret G (2010). Auditory discrimination learning and knowledge transfer in mice depends on task difficulty. *Proc Natl Acad Sci U S A,* 107, 8481-8485.
9. **Kurt S**, Groszer M, Fisher SE, Ehret G (2009). Modified sound-evoked brainstem potentials in Foxp2 mutant mice. *Brain Res*., 1289, 30-36.
10. **Kurt S**, Crook JM, Ohl FW, Scheich H, Schulze H (2006). Differential effects of iontophoretic in vivo application of the $GABA_A$-antagonists bicuculline and gabazine in sensory cortex. *Hear Res.*, 212(1-2), 224-235.

First author *

Corresponding author **