
LISA ROTHER – CURRICULUM VITAE

CONTACT DETAILS

Name Lisa Rother (maiden name: Seeberger)
Address Department of Behavioral Physiology and Sociobiology
Theodor-Boveri-Institute of Bioscience, Biocenter
Julius Maximilian University of Würzburg
Am Hubland
97074 Würzburg, Germany
Phone +49 (0) 931 31-80428
E-mail lisa.rother@uni-wuerzburg.de
Web www.biozentrum.uni-wuerzburg.de/zoo2

EDUCATION

since 10/2019 **PhD Student**
at Julius Maximilian University of Würzburg
Supervisor: Prof. Dr. Keram Pfeiffer

10/2017 – 10/2019 **Master of Science in Biosciences**
at Julius Maximilian University of Würzburg
Overall grade: 1.4
Major subject: Sociobiology and Behavioral Physiology
Minor subject: Neurobiology
Master's thesis: Dynamic properties of central complex neurons in the
bumblebee

10/2013 – 09/2017 **Bachelor of Science in Biology**
at Julius Maximilian University of Würzburg
Overall grade: 2.7
Major subject: Neurobiology
Minor subject: Sociobiology and Behavioral Physiology
Bachelor's thesis: Quantitative study of c-Fos expression in the amygdala of
5-HTT deficient female mice after functional magnetic resonance imaging

10/2011 – 09/2013 **Bachelor of Science in Life Science Engineering**
at Friedrich-Alexander-University Erlangen-Nürnberg

09/2003 – 07/2011 **Abitur**
at Gymnasium Herzogenaurach
overall grade: 2.9

EMPLOYMENT HISTORY

Since 10/2019 **Research assistant**
Julius Maximilian University of Würzburg
Laboratory of Prof. Dr. Keram Pfeiffer

12/2018 **Graduate assistant**
Julius Maximilian University of Würzburg
Laboratory of Prof. Dr. Keram Pfeiffer

TEACHING

- 2022 **Co-Supervision of Bachelor Thesis**
Topic: „Effects of locomotion state and temperature on processing speed in photoreceptors of *Bombus terrestris*“
- 2021 **Co-Supervision of Bachelor Thesis**
Topic: „Differences in the processing speed of visual stimuli in the photoreceptors of *Bombus terrestris* depending on the state of locomotion“
- 2021 **Practical Course, Integrative Verhaltensbiologie II (Bachelor)**
Topic: „Electrophysiological studies on the eye of the bumblebee“
- 2019 **Practical Course, Integrative Verhaltensbiologie II (Bachelor)**
Topic: „Analysis of behavioral responses to polarized light in *Bombus terrestris*“

GRANTS

- 2022 **Air Force Office of Scientific Research (AFOSR) Grant** (Johns Hopkins University)
- Graduate School of Life Sciences - Travel Fellowship** (University of Würzburg)

CONFERENCE PRESENTATIONS

- 2022 **Lisa Rother**, Anna Stöckl, Keram Pfeiffer
Talk: Dynamic properties of compass neurons in the bumblebee brain
114th Annual Meeting of the German Zoological Society, Bonn, Germany
- Lisa Rother**, Anna Stöckl, Keram Pfeiffer
Poster: Dynamic properties of compass neurons in the bumblebee brain
14th International Congress Neuroethology, Lisbon, Portugal
- Lisa Rother**, Anna Stöckl, Keram Pfeiffer
Talk: Dynamic properties of compass neurons in bumblebees
31st Neurobiology Doctoral Students Workshop, Cologne, Germany
- 2021 **Lisa Rother**, Anna Stöckl, Keram Pfeiffer
Poster: Dynamic properties of compass neurons in bumblebees
113th Meeting of the German Zoological Society (online)
- Lisa Rother**, Keram Pfeiffer
Poster: Dynamic properties of directional coding in compass neurons of the bumblebee
14th Göttingen Meeting of the German Neuroscience Society (online)
- 2019 **Lisa Rother**, Keram Pfeiffer
Poster: Dynamic properties of central complex neurons in the bumblebee
13th Göttingen Meeting of the German Neuroscience Society, Göttingen, Germany
- Lisa Rother**, Dylan Smith, Farah Ahmed, Richard Gill, Keram Pfeiffer
Poster: A micro-CT based standard atlas of the bumblebee brain

13th Göttingen Meeting of the German Neuroscience Society, Göttingen, Germany

Catharina Sophia Hamann, Karla-Gerlinde Schraut, Gabriela Ortega, **Lisa Seeberger**, Klaus-Peter Lesch, Angelika Schmitt-Böhrer

Poster: 5-HTT Deficient mice after experiencing prenatal stress: gene expression study focusing on genes related to the vasopressin and oxytocin brain systems

13th Göttingen Meeting of the German Neuroscience Society, Göttingen, Germany

2018

J.F. Kolter, M.F. Hildenbrand, S. Nauroth, J. Bankmann, **L. Rother**, P.M. Jakob, K.-P. Lesch, A.G. Schmitt-Böhrer

Poster: Serotonin transporter genotype modulates amygdala resting state perfusion and amygdala reactivity to negative stimuli and correlated c-Fos-ir cell density

EUREKA! Symposium, Würzburg, Germany

PUBLICATIONS

Rother L, Kraft N, Smith DB, el Jundi B, Gill RJ, Pfeiffer K (2021) A micro-CT-based standard brain atlas of the bumblebee. Cell Tissue Res. <https://doi.org/10.1007/s00441-021-03482-z>

Kolter JF, Hildenbrand MF, Popp S, Nauroth S, Bankmann J, **Rother L**, et al. (2021) Serotonin transporter genotype modulates resting state and predator stress-induced amygdala perfusion in mice in a sex-dependent manner. PLoS ONE 16(2): e0247311. <https://doi.org/10.1371/journal.pone.0247311>

Würzburg, 27.09.2022



Lisa Rother