

Dr. REBECCA MEASE

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Position: Research associate
Institute of Physiology and Pathophysiology
Children: One (* 2015)
Maternity leave: 2015 - 2017



CURRICULUM VITAE

University education

1998 - 2002 Bachelor of Science, Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, Massachusetts

Scientific degrees

2010 Doctoral dissertation in Neurobiology and Behavior, Mentor: Prof. Adrienne Fairhall, Dept. of Physiology and Biophysics, University of Washington, Seattle, USA.

Professional experience

Since 2018 Research associate at the Institute of Physiology and Pathophysiology, Heidelberg University
2016 - 2017 Post-doctoral researcher (part-time), Department of Neurosurgery, Klinikum rechts der Isar
2015 Guest researcher with Professor Patrik Krieger, Ruhr Universität Bochum, Abteilung Systemische Neurowissenschaften, Bochum, Germany
2014 Independent Grass Foundation Investigator at the Marine Biological Laboratory, Woods Hole, MA, USA
2010 - 2014 Post-doctoral researcher with Professor Bert Sakmann, Technische Universität München and Max Planck Institute of Neurobiology, Martinsried, Germany

Academic functions and awards:

Awards and honours:

2018 Chica and Heinz Schaller Foundation "Dual Career Bridge Funding Initiative". Two-year post-doctoral stipend to pursue independent research at Heidelberg University

- 2014 Grass Fellowship, Marine Biological Laboratory, Woods Hole, Massachusetts (competitive). Funding for independent research from the Grass Foundation
- 2005 - 2009 National Institutes of Health Neurobiology Training Grant (competitive). Four years of doctoral stipend for Ph.D. research, ~ 75,000 USD total for dissertation work at the University of Washington

A) Publications:

- Sumser A, Mease RA, Sakmann B, Groh A. Organization and somatotopy of corticothalamic projections from L5B in mouse barrel cortex. **Proc Natl Acad Sci U S A** 2017;114(33):8853-8858.
- Mease RA, Kuner T, Fairhall AL, Groh A. Multiplexed spike coding and adaptation in the thalamus. **Cell Reports** 2017;19(6):1130-1140.
- Groh A, Krieger P, Mease RA, Henderson L. Acute and chronic pain processing in the thalamocortical system of humans and animal models. **Neuroscience** 2017; DOI 10.1016/j.neuroscience.2017.09.042.
- Mease RA, Sumser A, Sakmann B, Groh A. Corticothalamic spike transfer via the L5B-POM pathway in vivo. **Cerebral Cortex** 2016;26(8):3461-3475.
- Mease RA*, Sumser A*, Sakmann B, Groh A. Cortical dependence of whisker responses in posterior medial thalamus in vivo. **Cerebral Cortex** 2016;26(8):3534-3543.
- Mease RA, Metz M, Groh A. Cortical sensory responses are enhanced by the higher-order thalamus. **Cell Reports** 2016;14(2):208-215.
- Mease RA, Lee S, Moritz AT, Powers RK, Binder MD, Fairhall AL. Context-dependent coding in single neurons. **Journal of Computational Neuroscience** 2014;37(3):459-480.
- Mease RA, Krieger P, Groh A. Cortical control of adaptation and sensory relay mode in the thalamus. **Proc Natl Acad Sci U S A** 2014;111(18):6798-6803.
- Gjorgjieva J, Mease RA, Moody WJ, Fairhall AL. Intrinsic neuronal properties switch the mode of information transmission in networks. **PLoS Computational Biology** 2014;10(12):e1003962.
- Mease RA, Famulare M, Gjorgjieva J, Moody WJ, Fairhall AL. Emergence of adaptive computation by single neurons in the developing cortex. **The Journal of Neuroscience** 2013;33(30):12154-12170.

* Equally contributing authors

B) Patents: -

Scientific collaborations beyond the planned Collaborative Research Centre

Patrik Krieger, Bochum, Germany

Adrienne Fairhall, Washington, USA