

Alexander Groh

Date of birth: 15. April, 1977
 Gender: male
 Address: Heidelberg University
 Institute for Physiology and Pathophysiology
 Im Neuenheimer Feld 326
 69120 Heidelberg, Germany
 Phone: +49-(0) 6221-54-8682
 Email: groh@uni-heidelberg.de
 Current Position: Professor for Medical Biophysics (W3)
 Institute for Physiology and Pathophysiology
 Children: One (*2015)

University education

1999 - 2004 Molecular and Cellular Biology, Universities of Jena, Amsterdam, Otago, and Heidelberg

Scientific degrees

2017 Habilitation and Venia legendi "Neuroscience & Neurophysiology", Technical University Munich, Mentor: Prof. Dr. Thomas Misgeld
 2008 Doctoral dissertation in Neurosciences (*summa cum laude*), Mentor: Prof. Dr. Bert Sakmann, Max-Planck Institute for Medical Research, Heidelberg, Germany
 2004 Master of Science in "Molecular and Cellular Biology", Heidelberg University

Professional experience

Since 08/ 2018 W3 (Full) Professor for Medical Biophysics, Institute for Physiology and Pathophysiology, Heidelberg University
 2017 - 2018 Heisenberg Research Group Leader Institute for Anatomy and Cell Biology, Heidelberg University
 2015 - 2018 Group Leader, Department of Neurosurgery, Klinikum Rechts der Isar, Technical University Munich
 2014 Independent Grass Foundation Investigator at the Marine Biological Laboratory, Woods Hole, MA, USA
 2008 - 2015 Post-doctoral fellow and group leader with Prof. Dr. Bert Sakmann at Max-Planck Institute for Neurobiology and the Institute of Neuroscience, Technical University Munich.

Academic functions and awards

Awards

2017 Heisenberg Fellowship (Deutsche Forschungsgemeinschaft)
 2014 Grass Foundation Fellowship
 2004 Gertrud Reemtsma Scholarship (Promovendenpreis) for thesis work.

Publications (10 max.)

Groh A, Krieger P, Mease RA, Henderson L. Acute and chronic pain processing in the thalamocortical system of humans and animal models. **Neuroscience**, 2017.

Mease RA, Kuner T, Fairhall AL, Groh A. Multiplexed Spike Coding and Adaptation in the Thalamus. **Cell Reports** 19:1130-1140, 2017.

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** 114:8853-8858, 2017.

Mease RA, Metz M, Groh A. Cortical Sensory Responses Are Enhanced by the Higher-Order Thalamus. **Cell Reports** 14:208-215, 2016.

Mease RA, Sumser A, Sakmann B, Groh A. Corticothalamic Spike Transfer via the L5B-POm Pathway in vivo. **Cereb Cortex** 26:3461-3475, 2016.

Mease RA, Sumser A, Sakmann B, Groh A. Cortical Dependence of Whisker Responses in Posterior Medial Thalamus In Vivo. **Cereb Cortex** 26:3534-3543, 2016.

Mease RA, Krieger P, Groh A. Cortical control of adaptation and sensory relay mode in the thalamus. **Proc Natl Acad Sci U S A** 111:6798-6803, 2014.

Groh A, Bokor H, Mease RA, Plattner VM, Hangya B, Stroh A, Deschenes M, Acsady L. Convergence of cortical and sensory driver inputs on single thalamocortical cells. **Cereb Cortex** 24:3167-3179, 2014.

Stroh A, Adelsberger H, Groh A, Ruhlmann C, Fischer S, Schierloh A, Deisseroth K, Konnerth A. Making waves: initiation and propagation of corticothalamic ca(2+) waves in vivo. **Neuron** 77:1136-1150, 2013.

Groh A, Meyer HS, Schmidt EF, Heintz N, Sakmann B, Krieger P. Cell-type specific properties of pyramidal neurons in neocortex underlying a layout that is modifiable depending on the cortical area. **Cereb Cortex** 20:826-836, 2010.