CURRICULUM VITAE

Maia Datunashvili

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Education:

Ilia State University; University of Muenster	Ph.D	Neurophysiology	2016
Ilia State University	M.S	Teacher of Chemistry and Biology	2008

Professional Experience:

2022 - Present - Postdoctoral Fellow at Department of Physiology. Northwestern University – Feinberg School of Medicine — Chicago, IL

2020 – 2022 – Postdoctoral Scholar at University of California San Francisco (UCSF) — San Francisco, California

2017 – 2020 – Postdoctoral Researcher at University of Muenster — Muenster, Germany

2013 – 2016 – Ph.D student at Ilia State University, University of Muenster — Tbilisi, Georgia; Muenster, Germany

Research Interest:

My project is focused on substantia nigra *pars compacta* (SNc) and its role in Parkinson's disease. Subthalamic nucleus (STN) and pedunculopontine nucleus (PPN) are the major sources of glutamatergic transmission to SNc. My research goal is to understand the role of these transmissions to dorsal and ventral tier of SNc dopaminergic (DA) neurons. Heterogeneity of STN, PPN neuronal subtypes and SNc DA neurons, makes the project more exciting.

Publications:

1. Rahul Chaudhary, Stefanie Albrecht, **Maia Datunashvili**, Manuela Cerina, Annika Lüttjohann, Ye Han, Venu Narayanan, Dane M Chetkovich, Tobias Ruck, Tanja Kuhlmann, Hans-Christian Pape, Sven G Meuth, Mehrnoush Zobeiri, Thomas Budde (2022) Modulation of Pacemaker Channel Function in a Model of Thalamocortical Hyperexcitability by Demyelination and Cytokines. *Cerebral Cortex*, bhab491, https://doi.org/10.1093/cercor/bhab491.

2. Lydia Wachsmuth, **Maia Datunashvili**, Katharina Kemper, Franziska Albers, Henriette Lambers, Annika Lüttjohann, Silke Kreitz, Thomas Budde, Cornelius Faber (2021). Retrosplenial Cortex Contributes to Network Changes during Seizures in the GAERS Absence Epilepsy Rat Model. *Cerebral Cortex Communications.* doi.org/10.1093/texcom/tgab023.

3. Schreiber JA, Schepmann D, Frehland B, Thum S, **Datunashvili M**, Budde T, Hollmann M, Strutz-Seebohm N, Wünsch B, Seebohm G (2019). A common mechanism allows selective targeting of GluN2B subunit-containing N-methyl-D-aspartate receptors. Commun Biol. DOI: 10.1038/s42003-019-0645-6.
4. T. M. van Alst, L. Wachsmuth, **M. Datunashvili**, F. Albers, N. Just, **T. Budde**, C. Faber (2019). Anesthesia differentially modulates neural and vascular contributions to the BOLD signal. NeuroImage. doi: 10.1016/j.neuroimage.2019.03.057.
5. A.L. Walter, J.C. Bartsch, **M. Datunashvili**, P. Blasesse, M.D. Lange, H-C. Pape (2018). Physiological profile of Neuropeptide Y-Expressing Neurons in Bed Nucleus of Stria Terminalis in Mice: State of High Excitability. Frontiers in cellular Neuroscience. doi: 10.3389/fncel.2018.00393.
6. **M. Datunashvili**, R. Chaudhary, M. Zobeiri, A. Lüttjohann, E. Mergia, A. Baumann, S.Balfanz, B. Budde, G. van Luijtelaar, H.-C. Pape, D. Koesling, T. Budde (2018) Modulation of hyperpolarization-activated inward current and thalamic activity modes by different cyclic nucleotides. Frontiers in cellular Neuroscience. doi: 10.3389/fncel.2018.00369.

7. M. Zobeiri, R. Chaudhary, **M. Datunashvili**, R. J. Heuermann, A. Lüttjohann, V. Narayanan, S. Balfanz, P. Meuth, D. M. Chetkovich, H.-C. Pape, A. Baumann, G. van Luijtelaar, T. Budde (2017) Modulation of thalamocortical oscillations by TRIP8b, a brain-specific auxiliary subunits for HCN channels. Brain Structure & Function, doi: 10.1007/s00429-017-1559-z.

8. Michael Leist, Susanne Rinné, **Maia Datunashvili**, Ania Aissaoui, Hans-Christian Pape, Niels Decher, Sven G. Meuth, Thomas Budde (2017) Acetylcholine-dependent upregulation of TASK-1 channels in thalamic interneurons by a smooth muscle-like signalling pathway. The Journal of Physiology. doi: 10.1113/JP274527.
9. Michael Leist*, **Maia Datunashvilli***, Tatyana Kanyshkova, Mehrnoush Zobeiri, Ania Aissaoui, Manuela Cerina, Maria Novella Romanelli, Hans-Christian Pape, Thomas Budde (2016) Two types of interneurons in the mouse lateral geniculate nucleus are characterized by different h-current density. Scientific Reports 6. doi: 10.1038/srep24904.
10. Irine Sakhelashvili, Marine Eliozishvili, Tamar Basishvili, **Maia Datunashvili**, Nikoloz Oniani, Katerina Cerneva, and Nato Darchia (2016) Sleep-wake patterns and sleep quality in urban georgia. Transl Neurosci. 7(1):62-70. doi: 10.1515/tnsci-2016-0010.