

Constance Holman

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Curriculum vitae

since 2016 PhD thesis, AG Schmitz
2013 - 2015 MSc Studies, Charité – Universitätsmedizin Berlin (supervisor Dietmar Schmitz)
2009 - 2013 BAsC Studies, McGill University, Canada

Research fields

My research in the Schmitz lab is focused on in-vivo-electrophysiology, including

- Characterization of cellular and network activity during navigation in virtual reality
- Modulation of long-range interneuronal projections and their role in behavior

Other projects

- Studying threats to validity in basic research, and accuracy in prediction of preclinical studies (with Jonathan Kimmelman)

Activities in the scientific community, honors, awards

2016 Charité Centre for Stroke Research “Paper of the Month” award
2016 Guidelines reviewer, Journal of Cerebral Blood Flow and Metabolism
Since 2014 Research Assistant, STREAM research group (supervisor Jonathan Kimmelman)
Since 2013 Writer and editor, Charité Medical Neurosciences Editor 2005 Schilling Award, German Neuroscience Society
1013 – 2015 Charité MSc student representative
2009 - 2013 Canadian Weston Loran Scholar, McGill University

Selected publications

Holman C, Piper S, Grittner U, Diamantaras A, Siegerink B, Kimmelman J, Dirnagl U. Where have all the rodents gone? The effects of attrition in preclinical research in stroke and cancer. *PloS Biology*, 14(1): e1002331. doi:10.1371/journal.pbio.1002331..

Bender, F., Gorbati, M., Carus M., Denisova, N., Gao X., Holman, C., Korotkova, T., Ponomarenko A. Theta oscillations regulate the speed of locomotion via a hippocampus to lateral septum pathway. *Nature Communications*, October 2015, doi:10.1038/ncomms9521

Indestructible plastic: Exploring new avenues of change in the aging brain
Holman, C., and De Villers-Sidani, E. *Frontiers in Human Neuroscience*, April 2014. doi: 10.3389/fnhum.2014.00219

Kamal, B., Holman, C. and De Villers-Sidani, E. Shaping the aging brain: role of auditory input patterns in the emergence of auditory cortical impairments
Frontiers in Systems Neuroscience September 2013. doi: 10.3389/fnsys.2013.00052