

Alexander Stumpf

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Curriculumvitae

- Since 2014 PhD student at the lab of Prof. Dr Dietmar Schmitz
Topic: Role of the cannabinoid receptor 2 signalling pathway in synaptic plasticity in the hippocampus
- 2012 - 2014 Master study at Goethe – University Frankfurt/Main
Master program: Interdisciplinary Neuroscience
Master thesis: Goethe University Frankfurt and Evotec AG Hamburg
Supervised by Prof. Dr. Jochen Roeper
Topic: Characterization of ionic transport proteins using different platforms
- 2009 – 2012 Bachelor study at Goethe – University Frankfurt/Main
Bachelor program Biological science
Bachelor thesis: Goethe University Frankfurt and BMLS Frankfurt
Supervised by Prof. Dr. Herbert Zimmermann;
Topic: Marker Profile of Adult Neural Stem Cells in Primary Cell Culture

Research fields

In my research I am analyzing the effects of cannabinoid signaling in the brain. Recent studies suggest that the cannabinoid receptor 2 (CB2R), which was thought to be absent from the CNS, is involved in different types of plasticity. Using a combined approach of electrophysiology, genetically modified animals and pharmacological manipulation of the cannabinoid system, I aim to determine the role of CB2R signaling pathways in synaptic and cellular plasticity.

Activities in the scientific community, honors, awards

- 2011 – 2013 Studentship: ‘Deutschlandstipendium’ (Sponsored by Evonik Industries)
- 2008 ‘Karl – von – Frisch – Preis’ for special achievements in Biology in Abitur (Baden – Württemberg)