

## Machtens, Jan-Philipp, Jun.-Prof. Dr. med.

Lab interest: **molecular simulations, machine learning, and electrophysiology**; ion channels and transporters in neuronal signal processing; pharmacological target identification

Institute of Clinical Pharmacology, RWTH Aachen University and  
Computational Neurophysiology Group, Institute of Complex Systems – Zelluläre Biophysik (ICS-4), Forschungszentrum Jülich  
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### PROFESSIONAL CAREER

- since 2019 W1 Professor for “Molecular modeling and simulation of membrane proteins”, Department of Molecular Pharmacology, RWTH Aachen University
- since 2016 Young investigators group leader (Computational Neurophysiology Group) at Institute of Complex Systems (ICS-4), Forschungszentrum Jülich
- 2013–2016 Postdoctoral research fellow in the Institute of Complex Systems, Zelluläre Biophysik (ICS-4), Forschungszentrum Jülich, headed by Prof. Ch. Fahlke

### UNIVERSITY EDUCATION AND ACADEMIC DEGREES

- 2011–2014 Guest student at Computational Biomolecular Dynamics group, Max Planck Institute for Biophysical Chemistry, Göttingen, Supervision: Prof. Dr. Bert L. de Groot, Project: “Molecular dynamics simulations of glutamate transporters”
- 2011–2014 Medical doctorate, Institute for Neurophysiology, Medizinische Hochschule Hannover, Thesis title: “Gating of EAAT Anion Channels within the Glutamate Transport Cycle”, Honor: Summa cum laude
- 2006–2013 Human medicine, Medizinische Hochschule Hannover

### AWARDS

- 2016 Du Bois-Reymond Prize awarded by the German Physiological Society