

Within the Research Training Group

Chemical Biology of Ion Channels (Chembion)

funded by the Deutsche Forschungsgemeinschaft (DFG) and established at the Westfälische Wilhelms-Universität in Münster

13 positions for PhD students, 13 TV-L (65 %)

are available. 13 scientists of the Westfälische Wilhelms-Universität Münster have teamed up with their complementary expertise to focus on the chemical biology of ion channels. The interdisciplinary research activities are centered on five topics: ligand recognition, subtype specific modulation, molecular imaging, molecular and cellular physiology, integrative (patho)physiology. Our vision of this interdisciplinary project is to solve physiological questions in the field of ion channels with innovative chemical methods, to bring together the molecular world of chemistry/pharmacy with the function-centered world of medicine and to develop the internationalization of our doctoral students.

We will provide a structured 3-years cutting-edge PhD training program in and beyond the fields mentioned above. The anticipated starting date will be October 1st, 2019.

We are looking for highly motivated and talented PhD students coming from different disciplines, e.g. pharmacy, chemistry, computational life sciences, medicine, biology, biochemistry, physics. Excellent command of spoken and written English, communication skills as well as team spirit are essential. We are offering a competitive, interdisciplinary environment with a track record of intense mutual collaboration. In addition to the individual training-through-research our program includes further elements such as an up to 6 months' internship abroad, retreats, lab rotation and symposia.

List of participating scientists and projects

Thomas Budde

Modulation of HCN channel function in the nervous system

Martina Düfer

Modulation of insulin secretion by NMDA receptors and Ca²⁺-regulated K⁺ channels

Frank Glorius

Exploration of molecule – ion channel interactions

Petra Hundehege

Immune physiology; autoimmunity; HCN channels and single cell electrophysiology

Joachim Jose

Autodisplay of the NMDAR ligand binding domains/MST assay for HCN channels

Anna Junker

Development of novel, subtype-specific HCN channel ligands

Oliver Koch

In-silico studies of ion channels and their modulators using computational molecular design

Matthias Lehr

Investigation of the effect of endocannabinoids on Ca^{2+} signaling in human sperm

Sven G. Meuth

Autoimmune neuroinflammation, glutamate receptor, NMDA, animal model

Albrecht Schwab

$K_{Ca3.1}$ channels in tumor pathophysiology

Guiscard Seebohm

Cation channel ligands, binding site identification, molecular mechanisms and cellular actions”

Timo Strünker

Ligand-control of ion channels in human sperm

Bernhard Wünsch

Subtype selective NMDA receptor ligands

Further details can be obtained from the Chembion homepage

www.uni-muenster.de/chembion and the homepage of the respective PI.

The University of Münster is an equal opportunity employer and is committed to increasing the proportion of female academics. Consequently, we actively encourage applications by women. Female candidates with equivalent qualifications and academic achievements will be preferentially considered within the framework of the legal possibilities. We also welcome applications from candidates with handicaps. Handicapped candidates with equivalent qualifications will be preferentially considered, unless other candidate-related reasons prevail.

Please submit your application until

June 20th, 2019.

Your application should include the following:

- motivation letter (max. 1 page)
- CV
- copies of the relevant certificates
- prioritized list of up to three preferred Chembion laboratories

Please submit your application electronically to:
chembion@uni-muenster.de

With the submission of the electronic application you agree automatically that the submitted application will be stored for the application process.