



BioTechMed-Graz is a cooperative initiative between the University of Graz, the Medical University of Graz and the Graz University of Technology at the interface of basic biomedical research, technological developments and medical applications with the goal of conducting joint health research.

Within the cooperative project BioTechMed-Graz, the three partner universities are pursuing the goal of joining the forces of their existing competences within the four major research areas of 'Molecular Biomedicine', 'Neurosciences', 'Pharmaceutical and Medical Technologies' and 'Quantitative Biomedicine and Modelling' through the establishment of a joint cooperative platform.

BioTechMed-Graz is – besides other projects – focusing on the Postdoc-Pool, which aims at promoting young scientists with international background and integrating them in the framework of BioTechMed-Graz in order to support innovative research in Graz.

For the project

„The cerebrovascular sphingolipid rheostat as modulator of blood-brain barrier function under inflammatory conditions“ the [Institute of Molecular Biology and Biochemistry](#) at the Medical University of Graz is seeking to appoint a

Postdoc

(fixed-term employment for the period of 2 years; position to be filled as of January 2, 2015)

Contact person:

Wolfgang Sattler, Ao. Univ. Prof., Institute of Molecular Biology and Biochemistry, Medical University of Graz, E-mail: wolfgang.sattler@medunigraz.at, Phone: +43 (0)316 380-4188

Research partners:

Juliane Bogner-Strauß, Assoc.Prof., Institute of Biochemistry, Technical University of Graz;
Sepp D. Kohlwein, Univ.-Prof., Institute of Molecular Biosciences, University of Graz, BiImaging Graz
Gerald Rechberger, Ass. Prof., Institute of Molecular Biosciences, University of Graz

Research topics

The successful applicant will investigate the outcome of inflammatory conditions on sphingolipid (SL) homeostasis at the blood-brain barrier (BBB) and how alterations of the SL profile affect barrier function. This is a pertinent question in neurosciences since it is not clear how disturbed lipid homeostasis at the BBB could affect the initiation/progression of neurodegenerative diseases.

The specific research areas include (1) analysis of sphingolipid homeostasis in brain microvascular endothelial cells, (2) gene expression analyses, (3) modulation of BBB function using pharmacological modulators of SL homeostasis, and (4) characterization of altered SL homeostasis at the BBB in vivo (mouse sepsis model).

Professional qualifications

The successful applicant will hold a Ph.D. in a relevant research area such as (molecular) biology, (bio)chemistry, or neuroscience and will have a strong track record of accomplishment. The successful candidate must have strong analytical, oral and written communication skills. Experience with tissue culture, primary brain cell culture, and mouse in vivo experiments is essential. Practical knowledge of lipid analytical techniques is a plus.

Personal profile

- Communicative and organizational skills
- Ability and interest to work in an interdisciplinary team
- High level of motivation and goal orientation

The minimum salary as stated in the collective agreement for universities and according to the classification scheme (B1) is EUR 3,483.30 gross/month (Postdoc).

Application Deadline: **October 21, 2014**

Applicants should send a CV including complete list of publication, brief statement of past achievements and three letters of reference wolfgang.sattler@medunigraz.at.

Medizinische Universität Graz
0075 Institut für Molekularbiologie und Biochemie
Harrachgasse 21/III (Inst. f. Molekularbiologie u. Biochemie)
8010 Graz

If you have any questions, please contact Wolfgang Sattler, Ao. Univ. Prof., Institute of Molecular Biology and Biochemistry, Medical University of Graz, E-mail: wolfgang.sattler@medunigraz.at, Phone: +43 (0)316 380-4188.

Further information can be found at www.biotechmedgraz.at