



UNIVERSITÄT ZU LÜBECK

**Adipocyte  
Brain  
Crosstalk**



## 11 PhD Positions on "Adipocyte-Brain Crosstalk" at University of Lübeck

### Research Projects

The DFG-funded Graduiertenkolleg 1957 "Adipocyte-Brain Crosstalk" studies the effects of adipose tissue hormones on CNS function and, in turn, the control of adipose tissue physiology by the brain. We are looking for highly motivated candidates for the following PhD projects (supervisors in brackets). Tentative start: **May 2020**. Earlier start date could be discussed with the PIs in the interview.

1. Central regulation of CO<sub>2</sub>-induced metabolic changes of adipose tissue and its alterations in endothelial dysfunction (Jan Wenzel & Markus Schwaninger)
2. Effect of adipokines/cytokines on HIF-1 regulated astrocyte glucose metabolism (Olaf Jöhren)
3. TRH neurons in the energy homeostasis and regulation of brown adipose tissue (Helge Müller-Fielitz & Markus Schwaninger)
4. Parkinson's Disease as a model for mechanisms of body weight regulation (Norbert Brüggemann & Britta Wilms)
5. Effects of thyroid hormone on adipocyte-brain crosstalk (Jens Mittag & Alexander Iwen)
6. Effects of subchronic activation of brown adipose tissue in humans (Sebastian Schmid & Britta Wilms)
7. Interplay between white and brown fat tissue and brain structure and function (Thomas Münte & Marcus Heldmann & Swantje Brede)
8. Dynamic epigenetic regulation of leptin gene expression during positive and negative energy balance (Henriette Kirchner)
9. Interaction of the circadian clock and the reward system in metabolic regulation (Henrik Oster)
10. The role of the SCN clock in the regulation of leptin signaling in the brain (Henrik Oster)
11. Impact of the ACE2/Ang (1-7)/Mas axis and the angiotensin A/alamandine/ MrgD axis on weight regulation (Walter Raasch & Michael Bader)

Project descriptions <https://www.grk1957.uni-luebeck.de/research/3rd-generation-projects.html>

### Our Offer

- 3-year employment contract, salaries according to German civil service tariff (TV-L 13, 65%)
- All research groups are located at the [Center of Brain, Behavior and Metabolism](#) (CBBM) with state-of-the-art lab facilities incl. MRT scanner, metabolic core unit, LC-MS, microscopy

- Comprehensive academic support, e.g. project-specific courses, soft skills training, funding for research stays abroad and international conferences, individual career coaching

### **Your Qualifications**

- Research-based master's degree or equivalent (e.g. diploma) passed with an above-average grade in biology, molecular life science, neuroscience, nutrition & biomedicine, pharmacology or a related subject
- Excellent English language skills in speaking and writing
- Pro-active attitude, good communication skills and ability to work independently in an interdisciplinary team

### **How to Apply**

Applications will be accepted until **30.10.2019**. Please carefully read the formal requirements before completing the online application form at <http://www.grk1957.uni-luebeck.de/application-form/>

### **Contact**

GRK1957 Office, [chaoqun.jiang@uni-luebeck.de](mailto:chaoqun.jiang@uni-luebeck.de)

For further information see <http://www.grk1957.uni-luebeck.de/grk-1957/>