

Open PhD Position at the Department of Pharmaceutical Technology

Name of PI: Prof.Dr. Andreas Bernkop-Schnürch

Hiring: September – November 2022

Salary: minimum 1.600 Euro p.m.

Title of the PhD Project: Development of nanocarrier systems for oral delivery of antidiabetic peptide drugs

Diabetes mellitus is a major public health problem worldwide, as 10% of adults have the disease. Type 2 diabetes (T2D) corresponds to 90% - 95% of the cases. In particular, insulin and glucagon-like peptide 1 (GLP-1) receptor agonists such as semaglutide are of high therapeutic value. However, T2D requires long-term treatment over decades and the adherence to these (poly)peptide drugs, that have to be frequently administered via injects, is poor. Oral formulations are preferred by patients and improve medication adherence. Within this project oral dosage forms for these (pol)peptide drugs are developed utilizing lipid-based nanocarrier systems. The project includes the development and characterization of such nanocarrier systems, their production and in vivo testing. Results of this project will contribute to a higher quality of life and lower mortality of T2D patients.

Requirements:

The ideal candidate will have a record of excellence and a strong background in pharmacy as well as a high interest in working in an interdisciplinary research environment. Adequate knowledge of the German and English language are a prerequisite.