2 PhD positions: Drug delivery to human tissues

The Institute of Pharmaceutical Technology is located at the Riedberg Campus of the Goethe University Frankfurt. Our working group is focussing on the development of novel drug delivery systems to enable targeted delivery of pharmaceutical molecules to the different biological barriers of the human body. Efficacy of these systems is analysed via the implementation of predictive three-dimensional cell and tissue-based in vitro models, taking into account the 3R principle to replace, reduce and refine animal testing. The tendered research project comprises the investigation of complex human in vitro tissue models in physiological and pathophysiological state with the aim of testing new therapeutic options for translation into the clinic.

PhD student (m / f / d) (50% E13 TV-G-U), contract duration 3 years, the salary classification is based on the activity characteristics of the collective agreement applicable to Goethe University (TV-G-U). Starting date: 01.11.2023

The projects focus on the design and characterisation of nanoscale drug delivery systems (polymeric or sugar-based nanoparticles, lipid-based carrier systems, electrospun fibers) and/or their testing on in vitro models of different human tissues (intestine, lung, skin) in the context of infection and inflammation.

The candidate must hold a successfully completed scientific university degree (MSc or equal) in pharmacy, biology, or related fields. Experience in the field of pharmacy, nanotechnology, and/or cell culture are desirable. Close cooperation with international project partners is necessary, therefore, very good communication skills in spoken and written English are relevant to the project.

Please send your cover letter and CV by 31.10.2023
Contact

Prof. Dr. Maike Windbergs: windbergs@em.uni-frankfurt.de