Job posting

Type of position

☐ scientific

☐ administrative

Target group

☐ graduates

☒ post docs

☐ other

Title	**PostDoc human in vitro tissue models**
Institution	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.
Position	Research Associate (PostDoc) (m / f / d) (E13 TV-G-U), contract duration 18 months, the salary classification is based on the activity characteristics of the collective agreement applicable to Goethe University (TV-G-U). Starting date: 01.10.2023
Responsibilities	The project focusses on the development of microfluidic chip platforms for the cultivation of physiologically relevant cell culture models of the human small intestine. These models will further integrate clinical patient samples in the effort to analyse drug effects in a personalised medicine approach. The challenge to create a sophisticated microfluidic platform to represent the complex physiological conditions of the human gut to enable predictive analysis of new chemical entities will be tackled in close cooperation with an international network of experts.
Requirements	A successfully completed scientific university degree and PhD as well as extensive experience in the field of human 3D in vitro tissue models. Long-standing experience in the development and manufacture of microfluidic chip platforms for cell cultivation. Experience in the isolation and cultivation of human primary cells and their analytical testing (biochemical and molecular biological assays and imaging processes) is desirable. Confident handling of

	electronic data processing. Close cooperation with international project partners is necessary, therefore, very good communication skills in spoken and written English are relevant to the project.
Application procedure (deadline etc.)	Please send your cover letter, CV and relevant publications by 30.09.2023
Contact	**Prof. Dr. Maike Windbergs: windbergs@em.uni-frankfurt.de**