

The research group on Institute for Lung Research at the faculty of Medicine is currently accepting applications for a

## Research Assistant (PhD student)

The position is offered for a period of 3 years, if no former times of qualification must be considered. The starting date is as soon as possible. The position is part-time (50 % of regular working hours with the possibility to extend to 65 % in the course of the project) with salary and benefits commensurate with a public service position in the state Hesse, Germany (TV-H E 13, 50 %).

Chronic obstructive pulmonary disease (COPD) and cardiovascular diseases (CVD) often occur in the same patient. The research project "Procoagulant extracellular vesicles (EVs) as mediators of pulmo-vascular diseases" aims to investigate if EVs mechanistically link COPD and CVD by promoting inflammation and coagulation in the lungs and the cardiovascular compartment.

The candidate will analyze patient samples (lung tissue, BALF, plasma) for inflammatory markers and procoagulant activity using techniques such as immunohistochemistry, ELISA and enzyme activity assays. Moreover, he/she will plan and perform cell culture assays to investigate if EVs lead to pathologically relevant changes in lung cells, and via which signaling pathways. The project is performed in international cooperation with Maastricht University (Netherlands) and will result in one or more high quality scientific publications. Disposition to own scientific qualification (e.g. a doctorate project in the area human biology) is expected.

The position is limited to a time period deemed adequate for the completion of a doctoral degree. As part of the assigned duties, there will be ample opportunity to conduct the independent scientific research necessary for the completion of a doctorate. The limitation complies to § 2, 1 WissZeitVG.

Requirements include an above-average university degree (master or comparable) in the field of life sciences, relevant theoretical and practical experience in the fields of biochemistry, cell biology and molecular biology as well as good English speaking and writing skills. Experience with or willingness to further education concerning the analysis of clinical data sets (e.g. multiple linear regression) is expected. Experience with methods for isolation and characterization of EVs or with any of the above-mentioned techniques is of advantage.

We actively support the professional development of junior researchers, e.g. by the offers of Marburg Research Academy (MARA), the International Office, the Higher Education Didactics Office and the Human Resources Development Office.

We support women and strongly encourage them to apply. In areas where women are underrepresented, female applicants will be preferred in case of equal qualifications. Applicants with children are welcome - Philipps-University is certified as a family-friendly university. Sharing a full-time position (§ 8 Abs. 2 S. 1 HGlG) as well as a reduction of working time is possible. Applicants with a disability as described in SGB IX (§ 2 Abs. 2, 3) will be preferred in case of equal qualifications. Application and interview costs can not be refunded.

All application documents must be sent by e-mail, as a single .pdf-file [i-lung@uni-marburg.de](mailto:i-lung@uni-marburg.de) for the attention of Dr. Birke Benedikter before 13.03.2020, citing reference number fb20-0053-wmz-2020