



Clinic for Cardiac, Thoracic, Transplant and Vascular Surgery Postdoc (f/d/m)

The Hannover Medical School (MHH), with about 10.000 employees the biggest company of Lower Saxony, is a university institution for research and teaching in the human and dental medicine and a university hospital of supra-maximum medical care. Research, teaching, medical care and administration work hand in hand in the integration model at the MHH-campus.

The Leibniz Research Laboratories for Biotechnology and Artificial Organs ([LEBAO](#)) at MHH, a basic research department of the Clinic for Cardiothoracic, Transplantation and Vascular Surgery ([HTTG](#)), has been working on the development of novel therapies for heart and lung diseases since 1996. The focus here is on regenerative medicine and stem cell technology.

We are searching for a highly motivated postdoctoral researcher interested in developing iPSC derived lung organoid models and applying computational approaches to understand how environmental stressors contribute to the development of lung diseases.



as soon as possible



Your task

- Apply human stem cell derived lung organoid models for complex perturbations
- Spearhead omics analyses of lung organoids under environmental stress
- Integration of in vivo and in vitro generated datasets and development of innovative analysis approaches
- Analysis, visualization and biological interpretation of results
- Scientific exchange with basic researchers and computational scientists
- Daily supervision of graduate and undergraduate students, teaching opportunities
- Project team management and scientific paper writing for high-quality publications

Our requirements

- PhD degree within a relevant field and strong interest in stem cell biology, toxicology, computational biology
- Desirably demonstrated experience in human iPSCs, in vitro differentiation, and working with three-dimensional models or related disciplines. Skills in or willingness to learn computational analysis of complex data sets is required.
- Mental agility, high personal motivation for the field, as well as excellent collaboration and communication skills are required
- Willingness to work closely with an interdisciplinary research team

We offer

- A full-time position with 38.5 hours per week, initially limited to two years with the possibility of extension at one of the largest employers in the state of Lower Saxony
- Salary in accordance with TV-L with the benefits of the public sector (e.g. company pension scheme and additional insurance through VBL)
- An exciting position at the interface of research, healthcare and science management
- Vibrant environment for personal and scientific development and growth, also within the framework of The German Center for Lung Research (Deutsches Zentrum für Lungenforschung, DZL)
- Motivated, team-oriented, international and interdisciplinary environment at LEBAO with state-of-the-art laboratories, core facilities and an high performance cluster
- Personal and professional development opportunities – supported by our wide range of internal and external training and further education programmes
- Excellent public transport connections and the option of leasing a company bicycle
- An outstanding range of sports, counselling and preventive healthcare programmes – because your health is important to us

You have any questions beforehand?

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Apply now

ID 3678
Deadline 01.03.2026



The MHH is certified as family-friendly university and stands for the promotion of women in the professional life. Applications of women are particularly welcome. Severely disabled applicants with equal qualifications are given preferential consideration.