

The Medical University of Graz performs research in a range of disciplines relevant to the objectives of precision medicine (www.medunigraz.at)



The Paediatric Pulmonology Research Group conducts population-based and clinical studies in children with lung diseases (<https://paediatrische-pulmonologie.medunigraz.at/forschung>)

We are looking for a highly motivated

PhD student in Precision Medicine for People with Muco-Obstructive Lung Diseases

Genetic muco-obstructive lung diseases (MLD) are rare, yet they account for the most common inherited conditions in children. The increasing availability of modulator treatment for people with MLD (pwMLD) diversified lung disease endotypes. Clinical surveillance and health care decisions need to adapt accordingly. Lung Clearance Index (LCI) is a promising biomarker of small airways dysfunction with the potential to precisely inform health care strategies. Based on a translational development plan, we create an international research undertaking of applied physiology in children and adults with MLD: **Reducing muco-obstructive lung disease progression using lung clearance index as a biomarker to inform treatment strategy (RELY): a multicentre, parallel, randomised, non-inferiority trial**

In your PhD, you will play a key role in the RELY study. You will have an active role in setting up and conducting the RELY study. You will communicate with clinical investigators, wet lab investigators, families and patient organisations and supervise research assistants.

You will use unique databases to answer relevant research questions in lung physiology. In a team of clinicians, statisticians and PhD students, you will learn (i) statistical methods to estimate phenotypes and their association with respiratory disease outcomes, (ii) present your results at international meetings, and (iii) publish them in peer-reviewed journals.

The position is embedded in the **Molecular Medicine PhD program** and an ideal basis for your translational research career. Teaching is organised via the Medical University of Graz (<https://www.medunigraz.at/en/>).

Applicants should have a university degree (MD, MSc or equivalent) in medicine or a related field and a strong interest in lung physiology and biomarker development. Previous experience in paediatric pulmonology or lung function testing, mass spectrometry and R software for statistical computing is of advantage. Fluency in German and English is required.

Please submit your application online (<https://mug.glowbase.com/login>). **Application deadline is September 20, 2022.** The position is available as of March 2023. PhD salary rates according to the Austrian Science Fund (FWF) apply. For further information, please visit (<https://www.medunigraz.at/en/>) or contact us by e-mail (florian.singer@medunigraz.at).

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