

The Hedtrich lab focuses on tackling and understanding inflammatory and genetic diseases of the skin and the lung. Research projects within the lab are highly interdisciplinary and routinely require intensive collaborations with groups from other disciplines.

For more information about the Hedtrich group and current research, please see:
<https://pharmsci-hedtrichlab.sites.olt.ubc.ca/>

**The Hedtrich lab is looking for a full-time
postdoc to work in gene editing of human epithelia (m/w/d)**

Expected start date is negotiable, although a start date as early as possible is considered favorable.

The successful incumbent would spend the first 1-1.5 years in Prof. Hedtrich's lab in the Faculty of Pharmaceutical Sciences at the University of British Columbia, in Vancouver, BC, Canada. This will be an exciting opportunity to closely work with world-leading scientists and companies in the area of gene editing and drug delivery. Afterward, the successful incumbent will have the possibility to continue their postdoc in the Hedtrich lab at the Charité Berlin/Berlin Institute of Health in Berlin Germany.

The research project aims for the development of *in-situ* gene therapy using CRISPR-Cas for the treatment of rare, monogenic diseases of the human skin and lung. Specifically, we aim for the development of smart delivery strategies for CRISPR/Cas components to (diseased) human epithelia. Secondly, emerging CRISPR/Cas based editing strategies such as prime and base editing will be explored as alternative therapeutic options for rare monogenic diseases like autosomal recessive congenital ichthyosis (ARCI) or cystic fibrosis.

Job description:

Successful candidates will be expected to take the lead within these projects, to publish manuscripts as a first author, and to present their data at conferences and lab meetings. Applicants should have a PhD in biomedical engineering, pharmaceutical sciences, biochemistry, or a related field with relevant experience.

Requirements:

Applicants should have a experience in gene therapy, biomolecular methods and/or primary cell cultures. Experience with CRISPR-Cas, organ models and non-viral gene delivery are considered strong assets.

High levels of participation in a collaborative team setting will be required, as will a high degree of self-motivation, excellent time management skills, and an ability to demonstrate creativity and sound judgment. The candidate should also demonstrate strong writing skills to ensure high-quality scientific publications and grant applications. Preference will be given to those with a strong publication record.

We offer:

We are a young and enthusiastic group looking for people willing to contribute to our exciting research.

Pay will be commensurate with level of experience and subject to UBC regulations for postdoctoral stipends. The contracted term will be for one year, from which further extensions will be possible.

For further information, please email sarah.hedtrich@ubc.ca.

Review of applications will start immediately and will continue until the position is filled.

Please send a curriculum vitae, a description of your research experience, a statement of your research interests, and the names of three referees to:

sarah.hedtrich@ubc.ca