

**The Hedtrich lab** in the Faculty of Pharmaceutical Sciences at UBC is looking for a **full-time postdoc** to work on ***in situ* gene editing in human epithelia**. An early as possible start date is preferred.

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.

**Applicants should have experience** in the formulation of nanoparticles and/or nanoparticle-based gene delivery. Experience with CRISPR-Cas and lipid nanoparticles are considered strong assets.

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.

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/>

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

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](mailto: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