

RiSE - Roche Internship for Scientific Exchange - in Neuronal remodelling in Dry-Eye Disease (3403730220)

Recruiter: Björn Urech
Hiring Manager: Faye Drawnel
Primary Location: Switzerland > Basel-Town > Basel
Requisition Type: Professional

Description

The Ophthalmology Disease and Translational Area oversees the discovery, research and development of novel treatments for diseases of the eye. The RiSE program (Roche Internships for Scientific Exchange) offers the most talented postgraduate students the opportunity to enhance their competencies and to gain valuable work experience with us. Within the Ophthalmology group, the Ocular Technologies Section aims to develop innovative, disease-relevant models of eye diseases. These models (in vivo, ex vivo and in vitro) are used to gain a greater understanding of disease biology and identify and validate new drug candidates. Currently, we are looking for a student to study how the innervation of the cornea changes in different human diseases and mouse models. The successful candidate will use ex vivo tissue samples and a combination of molecular and image-based approaches to understand how the morphology and activity of neurons changes during disease. Our goal will be to identify novel endpoints to analyze the effects of new drug candidates, giving the opportunity for the successful student to directly impact the drug discovery process.

As a RiSE intern you will:

- Work with ex vivo tissue samples from mouse models of different diseases
- Perform immune-histochemical analysis of corneal morphology
- Measure changes in cellular responses with technologies such as luminex/ELISA/gene expression analysis
- Test electrophysiological methods to measure corneal neural responses
- Independently plan, interpret and present your findings within the group

Qualifications

You are currently enrolled in PhD or medical degree program at a university studying neuroscience and/or ophthalmology

Moreover you are/have:

- Experience of cell/tissue staining and fluorescence imaging
- Analytical skills such as ELISA and qPCR
- A positive attitude and willingness to work as part of a team

This internship is available at short notice; individual start dates can be agreed on.

Applications need to include a CV and a cover letter, as well as a letter from your academic supervisor supporting your RiSE application. Letters of reference are also preferred.

Please note that non-EU/EFTA nationals have to successfully apply for a Swiss work permit.