



At the Institute of Microbiology and Infection immunology (Charité - CBF),  
the group of Prof Andreas Diefenbach

is currently advertising the

## **Master thesis project**

### **“The role of ILC signalling in intestinal tissue remodelling”**

#### **Our lab**

The Diefenbach lab has recently contributed to the discovery of innate lymphoid cells (ILC), a group of tissue-resident innate lymphocytes located at the border surfaces of the body, such as the mucosal lining of the intestinal tract. ILC release cytokines specifically acting on epithelial cells, thereby contributing to tissue homeostasis and to the adaptation of the host in response to noxious compounds and tissue damage. One focus of our lab is to study the nature of those ILC-epithelial cell signalling interactions.

[https://imh.charite.de/en/research/research\\_groups/diefenbach\\_lab/](https://imh.charite.de/en/research/research_groups/diefenbach_lab/)

#### **The project**

The project investigates the signalling networks between ILC and epithelial cells in the context of physiological tissue remodelling in the adult organism.

Methodically, the project includes working with genetically modified mouse models, sampling and preparation of mouse tissues, flow cytometry-based cell sorting, real-time PCR and fluorescence microscopy.

#### **Your profile**

We are looking for a highly motivated student with background in biology/immunology/biomedicine or related field. Experience with mouse work and any above-mentioned techniques is appreciated, but not required. You should be flexible, engaged, self-organized and have the ability to work independently. Good command of written and spoken English is required.

Starting date is the next possible date upon agreement between the lab and the student.

**Apply by 15<sup>th</sup> of May 2018**

Please send your application and all enquiries to  
Dr. Nora Kofoed-Branzk - [nora.branzk\[at\]charite.de](mailto:nora.branzk[at]charite.de)