

## **Postdoctoral research position (3 years)**

### **Inflammatory Bowel Disease and Mucosal Proteases**

Department of Rheumatology and Clinical Immunology, Inselspital, University of Bern, Switzerland

The candidate will work in the framework of the EU-funded collaborative research project “IBDase” (<http://www.rheumabern.ch/5509.html>). The IBDase consortium involves nine European research groups from different disciplines, including genetics, biochemistry, molecular biology, mucosal immunology, microbiology, and translational medicine, to address the pathogenesis of inflammatory bowel diseases in patients and animal models with a focus on proteases and protease inhibitors. The interdisciplinary research effort is coordinated by the University of Bern, Switzerland. Earliest start date **1<sup>st</sup> of March 2008**.

#### **Tasks**

Meta-analysis of published literature and online databases, in particular genetic association studies, to define protease and protease inhibitor candidate genes in inflammatory bowel disease.

Analysis of expression regulation and biochemical properties of polymorphic variants of protease / protease inhibitor genes in cell culture and organ culture models and in human intestinal tissue specimens. Define the role of miRNAs in the expression regulation of protease and protease inhibitor genes.

Contribute to the development of novel IBD mouse models, in collaboration with other research groups.

#### **Requirements**

Experience in relevant research fields and/or methodological fields.  
Motivation for collaborative research in an international and interdisciplinary environment.  
Computer skills and interest in the application of bioinformatics and statistical procedures, in collaboration with experts.  
Fluency in English and good communication skills.  
Experience in publication of research results in peer-reviewed journals.  
Motivation to contribute to the supervision of PhD students in the project.  
Criterion of eligibility: PhD or MD/PhD in relevant fields.

#### **Application**

Please send your CV and cover letter until **31 January 2008** by email to:  
Dr. Daniel Lottaz, MD / PhD, [daniel.lottaz@insel.ch](mailto:daniel.lottaz@insel.ch)  
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