4 Post doc positions available in the collaboration research project

COVasc: Unravelling consequences of SARS-COV-2 medical inflammation immune responses in heart and vasculature

within the Swiss National Science Foundation funded National Research Programme (NRP) 78 on COVID-19 are available (https://data.snf.ch/covid-19/snsf/198297)

Tasks
SARS-CoV-2 mediated cardiovascular complications crystallize as an important driver of COVID-19 pathophysiology and need to be understood in more detail, particularly with respect to long-term consequences in patients with pre-diagnosed comorbidities such as cardiovascular diseases. We are a team of cardiovascular researchers from the University of Bern combining our expertise to unravel consequences of SARS-CoV-2 mediated inflammatory immune responses in the heart and vasculature in COVID-19 pathogenesis. The 4 post-doc positions are available for the following projects:

**Project 1:**
Characterization of the response of human arterial, venous and microvascular endothelial cells, pericytes and cardiomyocytes upon infection with SARS-CoV-2

*Dr. Nicoletta Sovrillo (nicoletta.sovrillo@dbmr.unibe.ch) and Prof. Robert Rieben, Department for BioMedical Research, https://www.cvrc.unibe.ch/research/ischemia___reperfusion/*

**Project 2:**
Characterization of the response of the brain barriers to SARS-CoV-2 infection

*Prof. Britta Engelhardt (britta.engelhardt@tki.unibe.ch), Theodor Kocher Institute, https://www.tki.unibe.ch/

**Project 3:**
Assessment of SARS-CoV-2 infection and antiviral drugs on endothelial vasculature and cardiac function in zebrafish models

*Prof. Nadia Mercader Huber (nadia.mercader@ana.unibe.ch), Institute of Anatomy, https://www.ana.unibe.ch/index_eng.html*

**Project 4:**
Investigating SARS-CoV-2 mediated long-term consequences of vascular functions and cell specific effects of ACE2 in mouse models of cardiovascular disease

*Prof. Yvonne Doering (yvonne.doering@dbmr.unibe.ch) Coordination, Department for BioMedical Research, https://www.cvrc.unibe.ch/research/angiology*

Requirements

Eligible candidates should hold a PhD in molecular virology, immunology, vascular biology or biomedical research and ideally have experience with viral pathogens at biological safety level 2 or 3 (BSL2-3) or with animal models (mouse/zebrafish) and ‘omics’ techniques (e.g. RNAseq). Candidates are expected to have motivation in pursuing team-oriented research. **Solid English skills,**
written and spoken, are mandatory.

We offer
The positions are available from **November 1st, 2020** and limited to two years. We offer a stimulating, cooperative, and supportive environment and close collaborations between the groups and international research teams. Groups are within the Medical Faculty of the University of Bern and are also embedded into the Cardiovascular Research Cluster that includes several groups working at the University of Bern and the Bern University Hospital, Inselspital.

Applications with a meaningful motivation letter identifying a first and possibly second priority of the project applied for and including a CV, list of publications, and two letters of reference have to be sent to the e-mail address of the COVasc Coordinator Prof. Yvonne Doering: (yvonne.doering@dbmr.unibe.ch)