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Institute of Virology
and Immunology (IVI)

Spiez Laboratory



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UNIVERSITÄT
BERN

PostDoc Position – Bioinformatics/Virology (2 years)

Institute of Virology and Immunology (IVI)

SPIEZ Laboratory

Lausanne University Hospital

Institute for Infectious Disease, University of Bern

Bioinformatics Unit, University of Bern

VIRAL PLASTICITY UNDERLYING TROPISM AND PATHOGENESIS/ INNATE IMMUNE EVASION OF EMERGING VIRUSES

The project: Using a comparative approach at the level of viral population genetics, streamlined experimental approaches and technologies, our studies on coronaviruses, flaviviruses, and arenaviruses aim to reveal important commonalities and differences, allowing the definition of general principles of viral plasticity in the context of tropism and innate immune evasion. We will employ NGS technology combined with state-of-the-art human organotypic tissue culture and in vivo models to illuminate the molecular dynamics of viral plasticity underlying tropism and innate immune evasion of important groups of emerging viruses.

The Sinergia partners: The project is funded by the Swiss National Science Foundation (SNF) and includes the Institute of Virology and Immunology (IVI), Bern and Mithelhäusern (Prof. Volker Thiel), the SPIEZ LABORATORY (Dr. Rahel Ackermann) & Institute for Infectious Diseases, University of Bern (Prof. Stephen Leib), Lausanne University Hospital and University of Lausanne (Prof. Stefan Kunz), and the Interfaculty Bioinformatics Unit of the University of Bern (Dr. Rémy Bruggmann). See more information at: <http://p3.snf.ch/project-160780>

We are looking for highly motivated candidates with a strong and documented background on emerging virus infection (experience in BLS3/4 work is a plus) and a profound expertise in bioinformatics. The position will be allocated to the Interfaculty Bioinformatics Unit of the University of Bern. We expect detailed analyses of viral quasispecies determined by next generation sequencing, support of “omics” data such as transcriptome and proteome data in the context of host responses to emerging virus infection. The position requires a PhD in the field of life sciences/ bioinformatics.

Please send your application that should include a motivation letter, CV, copies of grade, diplomas, and references until **March 24th** to:
Prof. Volker Thiel (volker.thiel@vetsuisse.unibe.ch).