Three PhD and one postdoc Position in Quantitative Cell Biology at the University of Bern, Switzerland

Description

Applications are invited for one postdoc and three PhD positions at the Institute of Cell Biology at the University of Bern, Switzerland.

We are starting a new lab at the University of Bern. Our lab studies signaling networks that regulate cytoskeletal dynamics (during cell migration or neuronal differentiation), or the control of cell fate decisions. For that purpose, we utilize state of the art imaging techniques to visualize signaling activities in single living cells, microfluidics technology to precisely manipulate these cells, computer vision approaches for automated analysis of our imaging datasets, and mathematical modeling to extract meaningful insights from our experiments.

Projects include: 1. The dissection of a MAP kinase signaling network at the single cell level; 2. The analysis of spatio-temporal Rho GTPase signaling networks that regulate cell motility or neuronal guidance.

Please have a look at our recent publications to get an idea of our work:

A versatile toolkit to produce FRET-based biosensors to visualize signaling events in time and space. Science Signaling. 2013 Jul 23;6(285).


Candidates with a University Degree in Biology, Biochemistry, Bioengineering or a closely related field should apply. Experience with molecular biology, cell culture, imaging and programing are advantages. The PhD or postdoctoral student is expected to interact with mathematicians that will perform modeling/image analysis. Excellent spoken and written English are required.

These positions can start as early as on the 1.2.2016. Salary is in accordance with the guidelines of the Swiss National Science Foundation.

Applications with a full CV, references and a cover letter with a short research statement should be submitted by email to Olivier Pertz: olivier.pertz@izb.unibe.ch.