6 PhD and 1 Postdoc positions available at multiple Institutions within a collaborative Quantitative Cell Biology project

Funded by a Swiss National Science Foundation Sinergia grant, we are looking for ambitious PhD/postdoc students with interest in quantitative cell biology approaches within a consortium made of four labs with complementary expertise. The multidisciplinary project aims at understanding signaling mechanisms that regulate contractile cytoskeletal structures in processes such as cell migration, organogenesis and cytokinesis. The project will mix state of the art live cell imaging methods in cultured cells and Drosophila embryos, optogenetic and microfabrication techniques to manipulate single living cells, and analysis of cytoskeletal/signaling processes using tools and concepts from theoretical physics. The positions are available in different groups within the consortium.

Candidates with a Degree in Biology, Biochemistry, Bioengineering, Physics or a closely related field should apply. Experience with molecular biology, cell culture, live cell imaging and programing are advantages, but are not an absolute requirement. The students are expected to interact within a multidisciplinary environment including cell biology, physics and mathematics, and to closely collaborate with all members of the consortium. An important goal is the development of new optogenetic tools, signaling biosensors, and cytoskeletal reporters that can be applied across different model systems. Excellent spoken and written English are required. All positions are initially offered for 1 year, and can be renewed for up to 4 years. Salaries are in accordance with guidelines from the Swiss National Science Foundation. We aim to start this project around June 2019. Only short-listed candidates will be contacted.

Applications with a full CV, 3 references and a cover letter with a short research statement should be submitted by email to the PIs of the labs that most accurately matches the applicant's research interests, as listed below:

- Prof Olivier Pertz (University of Bern, Switzerland): **Study of cell migration in cultured cells**. 2 PhD positions available. Email: olivier.pertz@izb.unibe.ch

  http://www.izb.unibe.ch/research/prof_dr_olivier_pertz/index_eng.html
  https://www.pertzlab.net/

- Prof Damian Brunner (University of Zurich, Switzerland): **Study of Drosophila Organogenesis**. 2 PhD positions available. Email: damian.brunner@imls.uzh.ch

  https://www.imls.uzh.ch/en/research/brunnerd.html

- Prof Daniel Riveline (IGBMC, Strasbourg, France): **Study of cytokinesis/epithelial contractile arrays in cultured cells**. 2 PhD positions available. Email: daniel.riveline@igbmc.fr

  http://www.igbmc.fr/riveline/

- Prof Karsten Kruse (University of Geneva, Switzerland): **Physical analysis of cytoskeletal/signaling processes using computational approaches (no wetlab).** 1 Postdoc position available. Email: Karsten.Kruse@unige.ch

  https://www.unige.ch/sciences/biochimie/labs/karsten-kruse/