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Suter group, Institute of Cell Biology, Faculty of Science,
University of Bern

PhD / Postdoc position to study microtubule based localization processes in Drosophila development

A Postdoc and / or PhD position is available to investigate mechanism and function of localizing mRNAs, proteins and organelles to specific cellular compartments in the context of development. We are specifically interested in studying processes that are mediated by the microtubule transport system dynein and BicD/Egalitarian in Drosophila. mRNA localization to a specific cellular compartment restricts the action of genes to this compartment, provided that translation of the mRNA is repressed during the transport phase. Active transport, coordinated with translational control, constitutes an important mechanism to control differentiation during development, but also to restrict physiological processes to specific cellular compartments or regions. This is particularly important in large cells like neurons, oocytes and stem cells. Aside from mRNA, the Dynein/BicD machinery also transports proteins and even organelles to their target sites. For more information visit www.izb.unibe.ch/research/prof_dr_beat_suter where you will also find our coordinates.

Interested applicants need to be self-motivated, have expertise in Genetics and experience with (or a keen interest in acquiring it) the many different techniques used in modern Molecular Biology, Biochemistry, Cell Biology and Microscopy.

We offer a collaborative and supportive research environment. The PhD student will follow the interfaculty PhD program of the Graduate school in Cellular and Biomedical Sciences (<http://www.gcb.unibe.ch/>) with the option to also participate in the doctoral program Staromics (<http://biologie.cuso.ch/staromics/welcome>).

Are you interested and do you have the required degree in a relevant area? Please send me your application consisting of your CV, your publication list and the names of 2-3 referees as a single word or pdf document. Feel free to also include a statement of research interest or a motivation letter. Prof. Beat Suter, beat.suter@izb.unibe.ch.

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