

We offer four **postdoctoral positions** in experimental and computational biology for an integrated effort that aims to decipher **the transcriptional regulatory circuitry of cellular differentiation** in mammals.

In this Systems biology project we seek to understand how chromatin state, epigenetic modifications and transcription factors cooperate to direct cellular differentiation in conditions of health and disease. Postdocs will use functional genomics approaches to analyse genome-wide changes in transcription and epigenetic states quantitatively in mouse differentiation systems. Data will be analyzed in close collaborations with computational groups to generate and experimentally validate predictive models.

Participating laboratories seeking postdocs are:

Georg Holländer: regulatory networks governing thymic epithelial cell differentiation and promiscuous gene expression of self-antigens.

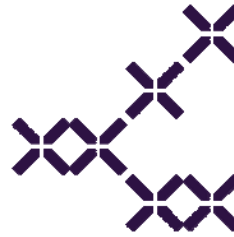
Anton Rolink: lymphocyte development and T cell differentiation.

Patrick Matthias: epigenetic control over B-lymphocyte differentiation

Antoine Peters / Juerg Schwaller: mechanisms of aberrant differentiation in conditional models of acute leukemia.

Also participating are: Gerhard Christofori, Mihaela Zavolan, Erik van Nimwegen, Dirk Schübeler and Susan Gasser. All laboratories are in either the University of Basel or the Friedrich Miescher Institute for Biomedical Research of Basel, Switzerland. Successful applicants will work in a highly stimulating research environment, and be offered training in theoretical and experimental techniques.

For further information visit our website www.cellplasticity.org. Interested applicants are invited to send CV, statement of motivation indicating the differentiation system(s) of interest and 3 letters of reference to cellplasticity@fmi.ch. For detailed information about the specific projects please contact the laboratory heads directly.



**Cell Plasticity
Systems Biology
of Cell Differentiation**