Post-doctoral position in the Suter lab at EPFL

The laboratory of David Suter at EPFL is looking for a strongly motivated post-doctoral researcher to study the molecular basis of cell fate regulation by mitotic bookmarking transcription factors.

The Suter lab is interested in molecular mechanisms controlling early embryonic cell fate decisions in mammals. We have recently discovered that SOX2 is sequestered on chromosomes during mitosis and that its presence at the mitosis-G1 (M-G1) transition is required for its ability to sustain pluripotency and enhance neuroectodermal commitment. This is the first demonstration that M-G1 expression of a transcription factor is critical for cell fate decisions. The proposed project will aim at elucidating how mitotic chromosome binding by SOX2 and other transcription factors regulates cell fate decisions upon mitotic exit. A broad range of methods will be used, such as in vitro differentiation of embryonic stem (ES) cells, live fluorescence/luminescence imaging, ATAC-seq, ChIP-seq, lentiviral transgenesis and genome editing.

At least two recommendation letters and a strong track record with one or several first author research paper in a peer-reviewed journal are required. Expertise in the techniques mentioned above is a strong plus. Starting salary ~ 80,000 US$/year. For more information please visit http://suter-lab.epfl.ch/ and contact david.suter@epfl.ch.

Key references:

A role for mitotic bookmarking of SOX2 in pluripotency and differentiation.

The elusive role of mitotic bookmarking in transcriptional regulation: insights from Sox2.
Deluz C, Strebing D, Friman ET, Suter DM.