



**University of
Zurich^{UZH}**

URPP Adaptive Brain Circuits in Development and Learning (AdaBD)

Postdoctoral position for iPSC-based models for neuroscience 100 %

The University Research Priority Program (URPP) AdaBD is a new research priority program of the University of Zurich that aims to identify how molecular mechanisms link to neural circuit organization and how brain circuit dynamics to learning. Using an interdisciplinary approach ranging from the molecular to the systems level, and translating between animal models and humans, we want to disentangle the core elements of adaptive brain circuits during multisensory learning behavior in children and adults. We also aim to translate insights from basic research to the clinic and to develop new diagnostic tools as well as innovative treatment strategies for development delay and learning deficits.

Your responsibilities

You will be responsible for providing to the consortium tools and expertise with iPSC-based models for neuroscience. You will apply existing protocols for 2D and 3D neuronal differentiation for collaborations with members of the URPP. Further, you will also work on improving protocols and developing new neuronal differentiation protocols according to your interests and the needs of consortium members. Furthermore, you will generate a toolbox of hiPSC lines where proteins that are of interest for projects investigating neural circuits within the scope of the consortium are tagged with fluorescent markers.

Your profile

Applicants should hold a PhD degree in a relevant discipline (e.g. neuroscience, molecular biology, genetics), have a strong background in neuroscience and have published work using human induced pluripotent stem cell culture methods. Experience with iPSCs and neuronal differentiation protocols are a pre-requisite for this position. Good communication skills are also required given the collaborative nature of the job. As a leader of this iPSC service for the URPP, the successful candidate must also work very independently and be a competent manager.

What we offer

Top-notch cell culture and laboratory facilities are available and access to modern core facilities (imaging, flow cytometry, functional genomics center) is warranted. Being part of a URPP consortium, this position will involve highly collaborative work. As such, we are offering a stimulating and friendly work environment, where diversity and inclusion are valued.

Place of work

Wagistrasse 12, 8952 Schlieren, Zurich

Start of employment

The position is available immediately for a duration of up to three years (yearly rolling renewal). Applications will be accepted until the position is filled.

Applications should be sent electronically and include a CV (incl. full publication list), copies of all relevant degrees, a statement of interest, and the names and email addresses of two referees.

Further information

Prof. Dr. med. Ruxandra Bachmann-Gagescu

Please apply via our job portal <http://www.jobs.uzh.ch>.