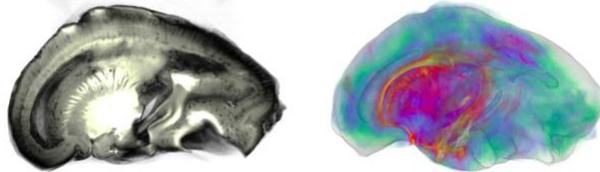




University of
Zurich^{UZH}

SNSF Swiss Postdoctoral Fellowship Opportunity in human brain development at the University of Zürich, group Jakab



Due to Switzerland's current status as a non-associated third country in the Horizon Europe programme, the Swiss government has mandated the SNSF to launch the SNSF Swiss Postdoctoral Fellowships 2022. This funding scheme is for people of any nationality who wanted to apply for a Marie Skłodowska-Curie Postdoctoral Fellowship (MSCA PF) with Switzerland as their destination country. My research group offers a host opportunity and application support for promising candidates. General information on the SNSF Swiss Postdoctoral Fellowships:

<https://www.snf.ch/en/m1NtWp4nTELQixlu/funding/horizon-europe-swiss-postdoctoral-fellowships>

We accept application enquiries until 1st of November 2022. Please send a short introduction including your envisaged project ideas and required techniques, CV and publication list. The deadline for the Swiss Postdoctoral Fellowships is 1st of December 2022. The earliest project start is July 2023.

Background and possible topics

The brain's neural circuitry develops dynamically: functional specialization and interconnections emerge rapidly before birth, but the precise nature and significance of this process remains unclear. In the envisaged research project, a combination of *in vivo* and *post mortem* MRI data will be used to study the emergence of neural circuitry in the human brain. Specifically, we aim to disentangle how circuits responsible for higher cognition and learning develop and how common pathological conditions may affect their development. Based on our core methods and data, the applicant for the fellowship will be free to identify the key research questions and methodological focus of the project.

What we offer

Our research group ([Link to website](#)) addresses challenges of pediatric developmental neuroimaging, build computational tools and use them to explore the dynamic aspects of perinatal and pediatric neurodevelopment in the individual patient and across larger study groups. We offer access to state-of-the-art research infrastructure, such as a 9.4T preclinical MRI scanner, dedicated pediatric MRI scanners, mesoSPIM light-sheet microscope and experience in tissue clearing for the 3D microscopy of human samples. We collaborate several research groups focusing on basic and applied clinical research in Switzerland and internationally. You will receive an attractive package consisting of a competitive postdoctoral salary (equivalent to ca. 98.000 EUR per year) for two years, your own project budget and other benefits.

Your profile

You are a highly motivated early career scientists who is looking forward to relocating to Switzerland. You bring in expertise in the field of MRI research, which may include the acquisition and post-processing of MRI, developing new image processing methods and applying machine-learning to MRI analysis. You completed a PhD degree no longer than 8 years ago in the field of neuroscience, biological or relevant engineering sciences and have a promising early track record of several peer-reviewed publications in internationally renowned journals in the field.

Contact

Prof. Dr. András Jakab

Research Group Leader

Center for MR-Research, University Children's Hospital Zürich, University of Zürich

E-mail: andras.jakab@kispi.uzh.ch Phone: +41 44 266 3129