



The **Stroke Research Lab** in collaboration with the **Center for Biomedical Imaging at the University of Geneva** is seeking a highly motivated **POSTDOCTORAL FELLOW** for a **3-year project** on stroke recovery, **starting in October 2023**.

The project investigates the benefit of a new pharmacological intervention to improve behavior after stroke. The central aim of the project is to determine the benefit of a new drug on motor function and determine the mechanisms underpinning its potential clinical effects using cutting-edge experimental imaging methods.

The position is for 3 years starting in October 2023. The initial appointment will be for one year, with a possibility of extension for the remaining period, pending on an intermediate evaluation. This project is funded by the Swiss National Science Foundation.

Main missions

- Collection, analysis and interpretation of behavior and imaging data in healthy and stroke populations
- Development and implementation of imaging analysis tools for whole brain MRI spectroscopy, functional and structural connectivity.
- Writing of high-impact publications and presentation of results at international meetings.
- Transmission of knowledge and expertise to younger team members, supervision of research assistants

Profile

- You have a PhD degree in Computer Science, Biomedical Sciences, Biomedical Engineering, Neurosciences, Biology, Neuropsychology, or an MD degree.
- You have experience with the acquisition and analysis of imaging data.
- You are familiar with MRI and stroke research or are highly interested in the topic.
- You have signal processing skills and knowledge in statistics and programming (Python, Matlab or other similar languages)

Environment

The Stroke Laboratory is part of the Comprehensive Stroke Center at the Geneva University Hospital (HUG) and is hosted by the Department Clinical Neurosciences at the University of Geneva. The project will be developed in collaboration with the CIBM (Center for Biomedical Imaging; <https://cibm.ch/>), providing an outstanding scientific research environment. We offer a highly collaborative, interdisciplinary and international environment.

Application and time schedule

Applications should be submitted via email by sending:

- a cover letter and statement summarizing your research interests and motivation (max. 1 page);
- a CV with a complete list of publications and a list of your three best papers including your previous research accomplishments and your future research goals (this part of your CV covers max 2 pages);
- the name and email addresses of up to three referees

Evaluation of candidates will begin immediately, and continue until the position is filled.

Contact : Dr Emmanuel Carrera, Head, Stroke Center.
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