

## **Postdoctoral Fellowship in Neuroepidemiology of Headache**

Funding: Fundação de Amparo à Pesquisa do Estado de São Paulo – FAPESP, Brazil.

Area of knowledge: Neurology

FAPESP process number: 2020/09468-9

Project title: Determinants of healthy brain aging in the Longitudinal Study of Adult Health (ELSA-Brasil).

Area of expertise: Neurology

Number of vacancies: 1

Principal Investigator: Prof. Dr. Alessandra de Carvalho Goulart

Institution: Center for Clinical and Epidemiological Research, Hospital Universitário, University of Sao Paulo - HUUSP.

Extended deadline for application: January 29th 2023

Starting date: 10/02/2023

Location: Av. Prof. Lineu Prestes, 2565. Cidade Universitária – Butantã. CEP 05508-000 - São Paulo – SP, Brazil

E-mail for application: [agoulart@hu.usp.br](mailto:agoulart@hu.usp.br) (Prof. Dr. Alessandra de Carvalho Goulart)

### **Summary**

The Center for Clinical and Epidemiological Research at HUUSP offers a postdoctoral fellow position with a 2-year FAPESP grant linked to a Thematic Project that seeks to understand the association of migraine with cerebrovascular outcomes and as a predictor of morphofunctional markers of brain health and subclinical stroke and the influence of lifestyle factors on these associations.

More specifically, the candidate will study the effect of migraine and its characteristics (subtypes and frequency of attacks) on the prevalence of white matter hyperintensity and the occurrence of lacunae, microinfarctions and gray matter volume in key regions of the brain. processing and perception of pain after 12 years of follow-up in a sample of the ELSA-Brasil cohort.

The candidate is expected to be a leader in this line of research for our group. For this, he/she must meet the following requirements: (i) a doctoral degree (no more than 7 years from this Postdoctoral Fellowship onset) in the health area; (ii) clinical and research experience in neurology (preferably in headache disorders); (iii) proven experience with database analysis; and (iv) advanced knowledge of biostatistics.

Interested parties should send an e-mail to: [agoulart@hu.usp.br](mailto:agoulart@hu.usp.br) (a) CV; (b) letter of motivation justifying interest and qualifications for the vacancy (one page); and (c) letter of recommendation. All documents must be in PDF format. Use the title "Bolsa PD FAPESP" in the message.

The vacancy is open to Brazilians and foreigners. The selected candidate will receive a FAPESP 2-year Postdoctoral Scholarship in the amount of BRL 8,479.20 per month and a Technical Reserve equivalent to 10% of the annual value of the scholarship to meet unforeseen expenses directly related to the research activity.

### **Work Plan**

The Postdoctoral student will be responsible for the following activities under the supervision of their supervisor:

1. Extensive literature review to search for neuroimaging variables most associated with migraine and subtypes.
2. Data tabulation and generation of derived variables in the database for baseline and 12-year follow-up variables that will be used for the analyses.
3. Construction of the database of migraine diagnoses variables and subtypes, and cardiovascular and psychiatric variables for baseline and 12-year follow-up periods, and neuroimaging (3T MRI) that will be collected in the study (follow-up).
4. Carrying out the analyses proposed in the study.
5. Writing periodic (annual) scientific reports on the progress of your study/activities.
6. Compilation of scientific articles derived from your work.
7. Participation in the study's weekly scientific meetings to discuss scientific projects and in the study's routine weekly follow-up meetings where the achievement of data collection goals is discussed.
8. Disclosure of the main products of this project to the scientific community and the lay population.