POSTDOCTORAL FELLOWSHIP IN “CARDIOVASCULAR AND RESPIRATORY PHYSIOLOGY” IN THE SCHOOL OF MEDICINE OF RIBEIRÃO PRETO, UNIVERSITY OF SÃO PAULO, FUNDED BY FAPESP, BRAZIL

A postdoctoral position is open in the Laboratory of Autonomic and Respiratory Control in the Department of Physiology, School of Medicine of Ribeirão Preto, University of São Paulo, Campus of Ribeirão Preto, State of São Paulo, Brazil.

The selected researcher will join a FAPESP (São Paulo State Research Foundation)-funded Thematic Project entitled “Astrocytic modulation on brainstem neurons involved with generation and control of sympathetic and respiratory activities in rodents submitted to hypoxia” coordinated by Professor Benedito H. Machado.

The main focus of this Thematic Project is to evaluate the role of astrocytes in the modulation of synaptic transmission in the brainstem neuronal network involved with the generation and modulation of autonomic and respiratory functions in rodents submitted to hypoxia. To reach this goal, a combination of several methods and experimental approaches will be used, including: experimental hypoxia, awake freely moving animals, cardiovascular and respiratory recordings, genetically modified mice (knock-out, knock-in, reporter lines), electrophysiological recordings in in vitro (brainstem slices) and in in situ preparation (working heart-brainstem preparation), viral transfection (pharmacogenetics/optogenetics) and intracellular Ca2+ imaging using multiphoton microscopy in in situ and in vitro preparations.

Candidates for this post-doctoral position should document with publication(s) their previous experiences in using some of the methods and approaches presented above. For the application, the following documents will be required from the candidates: 1) Reference letters from 2 established investigators in their respective area of research; 2) Curriculum vitae; and 3) a cover letter explaining the main reason why the candidate is applying for this post-doctoral position.

At the discretion of the Principal Investigators of this Thematic Project, candidates qualified for this position may be invited to online interview. The deadline for the submission of the documents, by e-mail to Professor Benedito H. Machado (bhmachad@fmrp.usp.br), will be on April 11, 2022. The final decision will be announced no later than April 29, 2022.

The selected candidate will receive a FAPESP Postdoctoral Fellowship, which stipends is R$ 8,479,20 (BRL) per month, and additional research contingency funding equivalent to 10% of the annual fellowship stipend to defray any other expenses directly related to the research activity.

The selected candidate will be eligible to apply for a moving allowance in case he/she is a resident outside the city of Ribeirão Preto. More information about the FAPESP Postdoctoral Fellowship is available at www.fapesp.br/en/postdoc