

Postdoctoral Position at the Paris Brain Institute (ICM), Paris, France

A Postdoctoral position is available at the ICM – Paris Brain Institute in the group of Alberto Bacci. The ICM is in the heart of Paris, France, part of the Pitié-Salpêtrière Hospital, and has a vibrant, multidisciplinary, and internationally recognized neuroscience community.

The Project:

Our research investigates how the intrinsic and synaptic properties of cortical neurons shape circuit dynamics and plasticity. We combine cellular-resolution approaches with large-scale recordings to determine how inhibitory circuits regulate cognition-relevant network activity, both under physiological conditions and in models of brain disease.

The lab uses a combination of single and multiple-cell electrophysiology, 2-photon imaging and electrophysiology in vivo, pharmacology, anatomy, immunocytochemistry, optical manipulations of specific neuron types and computational approaches. Check our lab website for details and publications: <http://baccilab.org/>

The successful candidate will investigate how distinct classes of cortical inhibitory neurons and the plasticity of their synaptic interactions regulate population activity, oscillatory dynamics, and state-dependent processing. The project will combine high-density Neuropixels recordings in awake mice with cell-type-specific circuit manipulations and quantitative analysis of large-scale neuronal activity. The candidate will have substantial freedom to shape the project and develop related research directions based on their interests and expertise.

Your Profile:

- A PhD in neuroscience or a related discipline;
- Experience in one or more of the following areas: mouse surgery, in vivo electrophysiology, systems neuroscience, imaging, or computational neuroscience;
- Proficiency in scientific programming;
- Strong written and spoken English.

We Offer:

- Fully funded three-year position, with salary determined according to experience and institutional guidelines
- Applications from outside France are welcome; visa support will be provided
- Mentoring to develop an independent research program
- Access to expertise in cortical microcircuits, mouse models, and advanced optical/electrophysiological methods
- Collaborative environment at ICM and opportunities for training and networking

Applications should be submitted as a single PDF file to alberto.bacci@icm-institute.org, using the mandatory subject line POSTDOC-CORTICAL-CIRCUITS – SURNAME First name

Please include:

- Curriculum Vitae (CV)
- One-page summary of previous research
- Brief statement of current research interests and motivation for applying
- Contact information of at least two referees

Applications will be reviewed until the position is filled.

Contact Information:

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