

Call for application – one (1) postdoctoral position available in the Papouin lab at Washington University in St Louis (MO, USA) to conduct in vitro calcium imaging studies in astrocytes.

Instructions:

To apply for this postdoctoral research opportunity, please email a CV/Biosketch with list of publications and awards, if applicable, a brief statement of research interest and experience, and the contact information of at least two references, directly to Dr. Thomas Papouin at thomas.papouin@wustl.edu. Applications will be considered until the position is filled.

Position description:

One (1) Postdoctoral Research Associate position is open in the Papouin lab, in the Department of Neuroscience at Washington University in St Louis, School of Medicine to conduct in vitro calcium imaging studies in astrocytes (<https://sites.wustl.edu/papouinlab/>).

The successful candidate will join an inclusive and dynamic team led by a junior PI to study the role of astrocytes in information processing in the mammalian brain at the cellular, circuit and behavioral levels. The Papouin lab offers a vibrant, productive and well-funded environment and enjoys a new, custom-designed laboratory space. Being versed in the fields of astroglial biology, neuromodulation and synaptic physiology is preferred. The successful candidate will have access to a variety of techniques employed by the lab, including and not limited to slice electrophysiology (patch-clamp, extracellular recordings), optogenetics, astrocytes manipulations, in vivo micro-dialysis, analytical chemistry (chiral derivatization, HPLC), mouse behavioral assays, molecular genetics (including CrispR/Cas9 approaches), correlative light and electron microscopy, quantitative RT-PCR, single-nuclei isolation, TRAP, immuno-histochemistry and other molecular biology techniques.

Funding will be provided for at least two years, but the candidate is expected to secure his/her own funding through applications to various foundations and funding agencies. Direct assistance in this process, and overall mentoring, will be provided by the PI throughout the postdoctoral stay. Several ongoing research projects are immediately available that require expertise with astrocyte calcium imaging. However, the candidate is expected to develop independent research projects, in order to optimize the success of their postdoctoral training and facilitate their transition towards independence, and to development of a strong scientific mentor/mentee relationship with graduate students in the lab.

Career and professional development training for postdoctoral researchers is provided through the Career Center, Teaching Center, Office of Postdoctoral Affairs, and campus groups. Additional information on being a postdoc at Washington University in St. Louis can be found at postdoc.wustl.edu/prospective-postdocs.

Environment:

The Department of Neuroscience at Washington University is made of over 30 different laboratories, which research spans the entire field of fundamental and translational Neuroscience, the full breath of research models (from computation and fossils to non-human primates and human patients), and the entire breath of techniques used in modern Neuroscience. We work closely with Cores, Centers and other Departments, such as the Anesthesiology, Genetics and Psychiatry, and have access to clinical research and human subjects, as well as tissue samples through partnerships with local hospitals. The Department of Neuroscience and Washington University at large are home to a number of prominent and internationally recognized researchers, and recently recruited well-known names in the fields of glial biology (Dr. Kipnis) and neuromodulation (Dr. Kepecs).

This is a unique opportunity to work at a top tier American University, ranking #20 in the World Best Universities ([Shanghai ranking](#)) and #9 in the [Best Global Universities for Neuroscience and Behavior](#), with access to a virtually limitless array of techniques, in an exceptionally friendly, collegial and collaborative atmosphere. Our department is also proudly international in nature, with PIs and postdocs originating from Switzerland, France, Germany, U.K., Bulgaria, Italy, Spain, Canada, Russia, Korea, China, and India.

More information:

Our lab: <https://sites.wustl.edu/papouinlab/>

Our department: <http://neurosci.wustl.edu/People/Faculty>

The Washington University Center for Cellular Imaging: <http://wucci.wustl.edu/>

The Brain Immunology and Glia Center: <https://brainimmunologygliacenter.wustl.edu/>

St Louis: <https://www.nytimes.com/2018/03/14/travel/st-louis-budget-affordable.html>

Required qualifications

- Must hold a PhD in Neuroscience or related life sciences discipline
- Must have demonstrated ability to conduct research independently

Preferred qualifications

- Adequate English fluency
- Eligible to postdoctoral fellowships (F32, HFSP etc)
- Demonstrated experience with in vitro calcium imaging
- Versed in the fields of astroglial biology, neuromodulation and/or synaptic physiology

Salary range and benefits:

Salary will be commensurate with experience and will follow the NIH postdoctoral stipend guidelines for FY2021 (<https://grants.nih.gov/grants/guide/notice-files/NOT-OD-21-049.html>).

This position qualify for full-time benefits. Please view a summary of benefits at <https://hr.wustl.edu/benefits/> .

Start date:

Position can start immediately but start-date is flexible. Applications will be considered until the position is filled.

Pre-Employment Screening

All external candidates receiving an offer for employment will be required to submit to pre-employment screening for this position. Current employees applying for a new position within the university may be subject to this requirement. The screenings will include a criminal background check and, if applicable, other background checks, drug screen, employment and education or licensure/certification verification, physical examination, certain vaccinations and/or governmental registry checks. All offers are contingent upon successful completion of required screening.

Primary duties and responsibilities

1. Trains under the supervision of the faculty mentor Dr. Thomas Papouin.
2. Assists with the development and implementation of astrocytic calcium imaging studies
3. Assists and provides additional mentoring to Graduate students
4. Develops and leads their own project independently, leading to at least one first author publication.
5. Develops their career plan and path to independence.
6. Develops proficiency in career skills, including writing, public speaking, networking, and critical evaluation of scientific literature.
7. Presents scientific work both inside and outside the University with excellent oral communication skills.
8. Assists with grant preparation and reporting.
9. Maintains conformity with ethical standards in research.
10. Complies with the Papouin lab ethics, research standards and philosophy.
11. Maintains compliance with laboratory practice including the maintenance of adequate research records.
12. Engage in open and timely discussion with the mentor regarding possession or distribution of material, reagents, or records belonging to their laboratory and any proposed disclosure of findings or techniques privately or in publications.
13. Collegial conduct towards co-trainees, staff members and members of the research group.
14. Adherence to all applicable University policies, procedures and regulations. Data, research records and materials, and intellectual property generated in WashU laboratories remain the property of the University.

EOE Statement:

Washington University is an Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, age, sex, sexual orientation, gender identity or expression, national origin, genetic information, disability, or protected veteran status.