



alliance nationale
pour les sciences de la vie et de la santé

ITMO Neurosciences,
sciences cognitives, neurologie, psychiatrie

Infos

POST-DOC

- **Post-doctoral position Neural stem cells microgenomics - A post-doctoral position at junior or senior level is currently open at the NeuroPSI Institute (CNRS and Paris-Saclay University), in collaboration between the research teams of Jean-Stéphane Joly and Laure Bally-Cuif.**

This position is funded for one year by the Paris-Saclay IDEX, starting on Jan. 1st, 2015.

Our teams are focusing on the biology of neural stem cells, using the zebrafish model (*Danio rerio*). Teleost fish have the incomparable advantage of maintaining high numbers of active neural stem cells in their adult brain, and we have developed transgenic lines specifically highlighting these stem cells in several brain subdivisions. The proposed microgenomics post-doctoral project will aim to characterize the genome active sites of different neural stem cell subtypes (radial glia or neuroepithelial cells) in different states (quiescent or activated) and different brain territories (forebrain, midbrain). This comparative approach will permit a first identification of the epigenetic signature underlying the specific properties of these stem cells within the mature brain.

This project will be conducted within the dynamic environment of the new NeuroPSI Institute, which will open on Jan 1st, 2015. This Institute unites 29 research teams focusing on the biology of the nervous system, from its embryonic development to the generation of its emerging properties and the computation of its circuits.

Key necessary expertise: excellent theoretical and experimental knowledge of state-of-the-art molecular biology and biochemistry techniques, especially re. the analysis of

chromatin marks.
Additional relevant expertise: cell sorting, bioinformatics and genome analysis.

Websites of the host teams : http://www.inaf.cnrs-gif.fr/ned/equipe01/accueil_01.html
et http://www.inaf.cnrs-gif.fr/ned/equipe08_eng/accueil_08.html

Contact : please email your CV, your motivation letter and at least one letter of reference simultaneously to both addresses: [Jean-Stéphane Joly](#) et [Laure Bally-Cuif](#)

- **Post-doc position at Neurospin, Saclay (France) to collaborate to the high-resolution human brain mapping subproject of the Human Brain Project, in collaboration with S. Dehaene and B. Thirion**

The application deadline is November 20th. The position begins in February 2015. For details please see [here](#).

- **Postdoctoral position in neurophysiology (dopamine and synaptic plasticity).**

Applications are invited for a 3-year postdoctoral position to study dopamine modulation of calcium influx underlying synaptic plasticity, at the Center for Interdisciplinary Research in Biology (College de France, Paris, France). We are seeking a highly motivated and talented research candidate to work on a project concerning the pathophysiology of dopamine and its impact on calcium influx in striatal neurons underlying corticostriatal synaptic plasticity. The position is funded by the National Agency for Research (ANR) associated with the National Science Foundation (NSF) in the NSF program Partnerships for International Research and Education. The position is available for 3 years. The successful application will perform 2-photon imaging (Trimscope II, LaVision) combined with patch-clamp experiments with optogenetics first in acute brain slices and in a second step an upgrade to in vivo experiments would be developed. Center for Interdisciplinary Research in Biology of the College de France is home to a collegial, interdisciplinary and vibrant neuroscience community and has excellent research facilities.

Candidates, preferably with a previous experience of in 2-photon imaging and electrophysiology (patch-clamp), should send their CV, brief statement of research interests contact information of two references and representative publications to: [Laurent Venance](#)

- **Postdoctoral Positions (Multi-Modal Brain Analysis)**

Postdoctoral research opportunities are available in the area of biomedical signal treatment at the Inserm Group (Inserm U 1105) in the University Hospital of Amiens, France.

The GRAMFC U1105 constitutes a competitive multidisciplinary team of around 20 peoples allowing strong interactions between clinical and fundamental neurophysiologists, neuropaediatricians, and specialists in signal processing. The group is well implanted in the University Hospital for clinical evaluation through the clinical unit of Exploration Fonctionnelles du Système Nerveux pédiatrique and is also localized in the Faculty of medecin for signal treatment and more fundamental

study on animal models. The GRAMFC is the only group in France to develop tools for high-resolution electric imaging (EEGHR) coupled with high-resolution optical imaging (HR NIRS) applied to children and newborns at a moment where it has to be considered as an emerging approach in the field of neurosciences. In this, they were the first to publish results about the relationship between electric and local hemodynamic activity during seizures or during interictal spikes. This group participates in a new upcoming field investigating mechanisms at the origin of physiological and pathological neuronal synchronization during development. Translational research on neurovascular coupling is supported by the use of preclinical research in rodents. The U1105 developed different patents for simultaneous EEG NIRS acquisition and is at the origin of the development of Medelopt, spin off of the U 1105. Collaborations with Neurospin (Orsay, France), University of Montréal (Canada) and Illinois (USA) are among the most important.

Candidate Profile
Candidates with an advanced background and experience/interest in signal treatment are sought to join leading efforts in the development and application of advanced electrophysiological and optical imaging approaches such as High density EEG/Near infra-red spectroscopy. Application areas include the clinical translation of multimodality imaging of the brain function and disorders, the diagnosis of neurovascular disease in children and premature. The candidates will actively participate in the international cooperations and in the encadrement of PhD students. He will have to present its work in international congress.

Requirements:
PhD (or equivalent) in strong backgrounds in Biomedical Engineering, Physics, Medical Physics, Computer Science, Electrical Engineering, Optics, or closely related fields is required. Advanced programming skills in Matlab. Familiarity with multi-modal image reconstruction/visualization and light propagation models is preferred.

To apply:
Interested candidates should send their detailed CV, a cover letter describing training and research experience, and names and contact information of three referees. Send correspondence via email to Pr. [Fabrice Wallois](mailto:fabrice.wallois@univ-picardie.fr) with the subject line: Postdoctoral application in cortical signal treatment.

Salary
The grant is supported by Inserm and Region Picardie. The amount is 2539,39EUR brut per month

- **Postdoctoral position in neuroeconomics, decision making, motivation and reward processing in the lab of Dr JC Dreher** : <http://dreherteam.cnc.isc.cnrs.fr/en/contacts/open-positions/>

Candidates, preferably with fMRI experience and familiarity with computational models of decision making, should send their CV, statement of research interests and representative publications to: Dr [Jean-Claude Dreher](mailto:jean-claude.dreher@univ-picardie.fr).

- **POST DOCTORAL POSITION - The Neurofunctional Imaging Group (GIN) is a CNRS-CEA joint research unit of the Bordeaux University (UMR 5296, dir. Bernard Mazoyer) and a core member of the TRAIL Laboratory of Excellence** : <http://trail.labex.u-bordeaux.fr/Jobs/POST-DOCTORAL-POSITION-gray-matter-anatomical-connectivity-networks-2-years,Job-169.html>

For further information, please contact Dr. [Fabrice Crivello](#)

ACCUEIL D'EQUIPE

- **Institut Pasteur - Creation of new research groups in the department of Neuroscience**

The Department of Neuroscience at Institut Pasteur launches a call for junior, mid-career and senior group leaders.

Institut Pasteur is located in central Paris and offers an outstanding and unparalleled research environment through its state-of-the-art research laboratories with integral biological services capability, cutting-edge scientific equipment, and technologically-advanced platforms.

Within this campus, the major focus of the Department of Neuroscience is the elucidation of genetic (and epigenetic), molecular, cellular and circuit mechanisms underlying the neural basis of behavior. Further information can be found on the Departmental website: <http://www.pasteur.fr/en/research/neuroscience>. Detailed description of the Institute and on-campus facilities can be found at: <http://www.pasteur.fr/en>.

We encourage applications from outstanding individuals interested in the development, plasticity, computational and pathophysiology of sensory and cognitive circuits in mammalian brain (rodents to humans). Applications will be evaluated on the basis of scientific excellence. Successful candidates will be appointed with a permanent position. In addition, highly attractive packages to match the experience of the candidate will be provided, including institutional salaries (principal investigator, technician, secretary, post-doctoral fellows), a substantial contribution to running costs and equipment, access to on campus state-of-the-art technology core facilities, as well as support for relocation expenses and administrative issues.

Applicants should provide a letter of intent (LOI) in a single PDF file (in order):

1. A brief introductory letter
2. A Curriculum Vitae, 10 most important publications and a full publication list
3. A description of past and present research activities (up to 2 pages with 1.5 spacing; Times 11 or Arial 10 font size).
4. The proposed research project (up to 2 pages with 1.5 spacing; Times 11 or Arial 10 font size).

A pdf copy of the LOI should be electronically submitted to neuroloi@pasteur.fr no later than December 30, 2014 by 5:00 pm (Central European Time). Shortlisted applicants will be notified by e-mail by February 1st 2015. A complete application will be requested and due for submission by mid-March 2015. Applicants will be invited for interview to take place at the end of April 2015.

FINANCEMENTS / BOURSES

- **The FLAG-ERA Consortium launches a dedicated joint call for proposals worth 18.5 M EUR on 27 October 2014. In parallel, FLAG-ERA announces the launch of Association Mechanisms for integration of nationally and regionally funded research into the Flagships work plans :** http://www.flagera.eu/extra-files/FLAG-ERA_Press%20release_27102014.pdf .

More information on the FLAG-ERA Joint Transnational Call 2015 is available at the page: <http://www.flagera.eu/FLAG-ERA-call-2015>.

More information on the Flagship Association Mechanisms can be found at: <http://www.flagera.eu/flagship-association-mechanisms>

COLLOQUE 2014 de l'ITMO NEURO

- **Les Instituts Thématiques Multi-Organismes (ITMO) Santé publique et Neurosciences, Sciences Cognitives, Neurologie, Psychiatrie organisent conjointement leur colloque à Paris le 8 et 9 décembre 2014 :** <https://itneuro.aviesan.fr/index.php?pagendx=718>

COLLOQUES / EVENEMENTS

- **Workshop "iPS et utilisation clinique" organisés par les ITMOs IHP, ITS et BCDE, les 25-26 novembre 2014 :** <https://ihp.aviesan.fr/index.php?pagendx=464>

Nous souhaitons réunir la communauté (chercheurs, plateformes de production, cliniciens et industriels) des cellules souches (dont les iPS et ES) pour discuter de l'utilisation des iPS en clinique et définir des priorités pour les 3-5 ans à venir.

- **Dans le cadre de l'Alliance nationale pour les Sciences de la Vie et de la Santé (Aviesan), les ITMO Circulation Métabolisme Nutrition (CMN) et Technologies pour la Santé ont le plaisir de vous inviter au colloque : Therapeutic Innovation DU 18 et 19 décembre 2014 à Paris :** <https://its.aviesan.fr/index.php?pagendx=697>

Ce colloque conjoint a pour objectifs de présenter des exemples d'innovations thérapeutiques réussies dans les domaines de recherche couverts par l'ITMO CMN, de faire mieux appréhender aux chercheurs le potentiel de leurs recherches pour l'innovation et de les informer sur le parcours qui conduit à la valorisation de leurs résultats.

Le colloque s'ouvrira par une conférence introductive donnée par Herman Waldmann (Therapeutic Immunology Group – University of Oxford) sur l'utilisation d'anticorps

thérapeutiques pour maîtriser les mécanismes de tolérance du système immunitaire. Le programme inclut une table ronde en fin de la première journée, qui permettra d'apporter une vision à la fois académique et industrielle de l'innovation thérapeutique et d'échanger sur la problématique. Ces journées s'adressent à tous les acteurs, scientifiques, cliniciens, publics et privés.

Inscription est gratuite mais obligatoire.

DIVERS / PLATEFORME

- **La Fédération de recherche 3C Comportement-Cerveau-Cognition / FR 3512**, propose des prestations en IRM petit animal anatomique <http://federation3c.com/irm-petit-animal-federation-3c> et fonctionnel et en Microdialyse intracérébrale sur animal éveillé et HPLC : <http://federation3c.com/microdialyse-intracerebrale-hplc-federation-3c>
Contacts : pour la Fédération : [Sandrine Basques](#) (Coordinatrice), pour l'IRM : [Nathalie Baril](#) (Responsable), pour la Microdialyse HPLC : [Nathalie Lorenzo](#) (Responsable).