

aviesan

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

ITMO Neurosciences,
sciences cognitives, neurologie, psychiatrie

Infos

POST-DOC

- **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 position in neurobiology of drug addiction in the lab of Dr. Serge Ahmed**

Applications are invited for a 3-year postdoctoral research fellow position to study the causal role of the orbitofrontal cortex (OFC) in cocaine addiction using a choice-based animal model. Briefly, the specific objectives will be to test whether and how excessive cocaine choices causally depend on activity of OFC pyramidal cell bodies and their striatal axon terminals, using relevant optogenetic methods coupled with electrophysiological recording methods. This project should allow one to peer into the cortical machinery that underlies choice-making and to begin to clarify how its dysfunctions causally drive cocaine addiction. This is a full-time position and is open from January 2015 to December 2017. Candidates, preferably with a previous experience of in vivo electrophysiology and/or optogenetic methods in behaving rodents, should send their CV, brief statement of research interests and representative publications to: Dr [Serge Ahmed](#).

- **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 people 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 medicine 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](#) 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](#).

- **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>
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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.

- **Inserm Workshops 2015 - Ateliers de l'Inserm 2015 - N°233 - Intestinal microbiota: from bench to bedside :** <http://ateliersinserm.dakini.fr/>

Registration deadline : January 23, 2015
Scientific organizers: Gabriel PERLEMUTER (Inserm U996 & Hôpital Antoine-Béclère, Clamart, France), Ivo BONECA (Institut Pasteur, Paris, France), Philippe GERARD (INRA - UMR1319, Jouy-en-Josas, France)
PHASE I – CRITICAL ASSESSMENT: April 13-15, 2015 in Bordeaux
PHASE II – TECHNICAL WORKSHOP: April 20-21, 2015 in Jouy-en-Josas

- **Conference The Challenge of Chronic Pain, from 11-13 March 2015 at the Wellcome Trust Genome Campus, in Hinxton, UK :** https://registration.hinxton.wellcome.ac.uk/display_info.asp?id=451
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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).