

# ENP ACTIVITY REPORT 2013 - 2016

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# The École des Neurosciences de Paris Île-de-France (ENP)

**The ENP** is a non-profit private foundation created in 2007 by the Ministry of Research and Higher Education.

The institution is devoted to the development, promotion and outreach of neuroscience research through dedicated programs –Scientific events, Invited scientists, Starting grant, International internship and Graduate program.

In 2016, the ENP commits to carrying out its actions with a budget of 5 million euros.

## **Founders**

Three research agencies: CEA, CNRS, Inserm and two universities: Pierre et Marie Curie and Paris Sud, and in 2008 the Université Paris Descartes.

## **The Network**

In 2016, the ENP gathers a network of 114 teams located in 23 research centers of the Paris region.

## **7 multidisciplinary main research themes**

Neurogenetics/ neurodevelopment	Neurophysiology/ systems neuroscience
Neuropharmacology/ cell signaling	Neurological and psychiatric diseases
Interface physics / technology/ robotics	Computational neurosciences/ neural theory
Cognitive neurosciences/ neuropsychology	

## **Strategy**

- Developing ENP international training and guest professors, by way of new national and international partnerships :
  - Centro Estudios Científicos Santiago (Chile)
  - Ludwig Maximilians University, Munich (Germany)
- Supporting synergy and multidisciplinary between teams by fostering scientific meetings on innovative topics
- Promoting neuroscience laboratories locally and supporting events aimed at the general public
- Generating collaborations between academic neuroscience research and businesses

## Governance

The ENP is managed by several committees.

**The Board of Trustees** takes legal decisions and manages finances.

Chair: Alain Bravo. Honorary President: Bernard Esambert.

20 members representing founders and partners : CNRS, CEA, Inserm, UPMC, Université Paris Sud, one representative of researchers and professors, one representative of the entrepreneurial world, one representative of the Paris Education Authority, and one representative of the Île-de-France Region.

**The Steering Committee** evaluates and takes decisions on programs' scientific contents.

Director: Serge Charpak.

12 ENP team leaders of complementary expertise.

**Gilles Bonvento** - Neurodegenerative Diseases, Institute of Biomedical Imaging - MIRCen, Inserm

**Serge Charpak** - Imaging and Neurovascular physiology of the olfactory bulb, Centre des Saints-Pères- Inserm/ CNRS

**Alain Chedotal** - Role of axon guidance molecule, Institut de la Vision - Inserm/UPMC

**Alain Destexhe** - Computational Neuroscience, INAF, UNIC - CNRS

**Alexandra Durr** - Molecular basis, physiopathology and treatment of neurodegenerative diseases, ICM- AP-HP

**Philippe Faure** - Neurophysiology and Behavior, Neuroscience Paris Seine, IBPS - UPMC

**Fiona Francis** - Cortical development and pathology, Institut du Fer à Moulin - Inserm

**Thierry Galli** - Membrane traffic in Neuronal & Epithelial Morphogenesis, Institut Jacques Monod - Inserm/CNRS

**Catherine Tallon-Baudry** - Cognitive neuroscience and brain imaging, ENS - Inserm / UPMC / CNRS

**Laurent Venance** - Dynamic and Pathophysiology of Neuronal Networks, CIRB Collège de France - CNRS

**Philippe Vernier** - Neurobiology & development, INAF, N&D - CNRS

**Bernard Zalc** - Neurodegenerative diseases, ICM - Inserm/UPMC

**The Scientific Advisory Board** provides evaluation of new teams and applications, and advice on scientific approaches. It is composed by 9 eminent scientists from international research centers.

**Pascal Fries** - Ernst Strüngmann Inst. for Neuroscience in coop. Max Planck Society, Frankfurt, Germany

**Benedikt Grothe** - Max Planck Institute of Neurobiology, Ludwig-Maximilians University, Munich, Germany

**Michael Hausser** - Wolfson Institute for Biomedical Research, University College of London, England

**Gilles Laurent** - Max Planck Institute for Brain Research, Frankfurt, Germany

**Andreas Luthi** - Friedrich Miescher Institute for Biomedical Research, Basel, Switzerland

**Michela Matteoli** - Dept of Biotechnology and Translational Medicine, University of Milano, Italy

**Maria-Grazia Spillantini** - Department of Clinical Neurosciences, University of Cambridge, UK

**Frank S. Walsh** - University science Center, Philadelphia, USA.

**Peter Hagoort** - Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands

**The Administrative Team** implements actions in finances, communication, and graduate program management.

General Secretary: Y. Hénin, and 3 full-time employees.

# ENP Programs

The ENP support programs are meant to help the affiliated teams of the network.

Since 2007, ENP has launched, recruited and / or supported:

18 **Invited international scientists** hosted by ENP teams.

63 **Scientific events** supported and/or organized by ENP.

5 **Starting Grant**: start-up support for young group leaders.

33 **Post-Docs** received short-term support.

69 **Graduate students**, now 37 Alumni.

24 International **Interns**

Resulting as of 2013 in **4 000 papers** in international peer-reviewed journals, 270 of which in strong impact journals and 375 in well established ones.

See detailed results in the 2007-2012 Activity Report.

**Applications to programs 1 to 4 ought to be made by ENP team leaders.**

## 1 Invited Scientists

- Sabbatical stays of 3-6 months
- Call open all year round, no deadline
- Flexible financial support
- Selection by Steering committee based on the CV of candidate and scientific program

## 2 Scientific Events

- Helping ENP teams to meet, create and maintain multidisciplinary exchanges
- Supporting multidisciplinary responding to an increasing need for sponsorship
- Contributing to national and international collaborations
- One call per year
- Selection by Steering committee

## 3 Starting Grant

- Support for incoming outstanding young researchers
- Call open all year round, no deadline
- 2 steps: 1. Initial selection by a research center director  
2. Application transmitted by an ENP team leader of the aforementioned center
- Selection by Steering committee and Board of Trustees
- Financial Support for up to 350 K €

## 4 Post Docs

- Buffer solution to cover salary expenses for a limited period of time, up to 6 months.
- Call open all year round, no deadline
- Selection by Steering committee

## **5 Graduate Program**

- A 4 - year program open to all students having obtained their last degree outside France
- Working language : English
- One call per year
- A 4 - year ENP global package of 150 K €
- Selection by a committee of ENP researchers

## **6 Interns**

- An introduction to neuroscience for undergraduate students
- Hosting international students in Paris for up to 6 months
- Exclusively with academic international partners
- Initial selection by local committee

# ENP Graduate Program

The ENP Graduate Program is the lead action of the ENP. With about 500 applications / year and only a few recruitments, it is a selective program with competitive students' benefits and high-level resources.

Graduate Program Directors manage the interviews and recruitment process with a board of experts and a dedicated assistant.

In 2017, **69 students** have been recruited to the ENP Graduate Program.

## 2016 Students

Manuel BEIRAN AMIGO, Humboldt University of Berlin, Germany  
Dmitri BRYZGALOV, Lomonosov Moscow State University, Russia  
Sadiyah CASSIM, University of KwaZulu-Natal, South Africa  
Eduarda DEMORI SUSIN, Federal University of Rio Grande do Sul, Brazil  
Elaine ORENDORFF, Loyola University Chicago, USA  
Gianluca SESSO, University of Pisa, Italy

## 2015 Students

Damiano AZZALINI, CIMeC, University of Trento, Italy  
Sarah GOETHALS, Université Libre de Bruxelles, Belgium  
Margot ROELL, University of Bath, United Kingdom  
Bryon SILVA, Pontifical Catholic University of Chile, Chile  
Mingyue WU, Institute of Neurocience, Shanghai Institutes for Biological Sciences  
Chinese Academy of Sciences, China

## 2014 Students

Bence BAGO, University of Edinburgh, Scotland  
Sebastian CEBALLO, Universidad austral de Chile, Chile  
Cristina DONATO, Università degli studi di Genova, Italy  
Alessandra GALLO, Sapienza University of Rome, Italy  
Jimmy OLUSAKIN, University of Ibadan, Nigeria  
Soham SAHA, Homi Bhabha National Institute, India  
Katarzyna SIUDA-KRZYWICKA, Jagiellonian University, Poland  
Arturo TORRES HERRAEZ, Universidad Autónoma de Madrid, Spain  
Ana UZQUIANO, King's College London, United Kingdom

## 2013 Students *Please refer to the 2007-2012 Activity report to see the list of prior students.*

Maria Julia CARBAJAL, University of Buenos Aires, Argentina  
Hannah METZLER, University of Vienna, Austria  
Anna PTUKHA, Moscow Institute of Physics and Technology, Russia  
Ralitsa TODOROVA, University of Edinburgh, Scotland

## Statistics

**Total of students**      **69**  
Gender                      67% Female / 33% Male

## In 2012, the ENP Graduate Program was opened to collaborators and co-financers



Heike BLOCKUS, "Role of axon guidance molecules " (A. Chedotal), Institut de la Vision.

Flora BOUCHACOURT, "Dynamical neural theory group" (B. Gutkin), École Normale Supérieure.

Sebastian CEBALLO, "Cortical Dynamics and Multisensory Processing" (B. Bathellier), UNIC.

Shauna KATZ, "Zebrafish Neurogenetics" (L. Bally-Cuif), Institut de Neurobiologie Alfred Fessard.

Hannah METZLER, "Social Cognition Group" (J. Grèzes), École Normale Supérieure.

Sabah MOZAFARI, "Molecular and cellular approaches of myelin repair" (B. Nait Oumesmar and A. Baron-Van Evercooren), ICM.

Anna PTUKHA, "Vision Group" (P. Mamassian), École Normale Supérieure.

Margot ROELL, "Laboratoire de Psychologie du Développement et de l'Éducation de l'enfant (LaPsyDÉ)" (O.Houdé), Institut de Psychologie de Paris Descartes.

Maria TELENCZUK, "Cortex et épilepsie" (R. Miles), ICM.



Ralitsa TODOROVA, "Spatial Memory and Navigation" (S. Wiener, M. Zugaro), Collège de France.



Marie Louise Dongelmans, "Neurophysiology and behaviors" (Ph. Faure), Neuroscience Paris Seine.

## And external financers



Jenna STERNBERG, "Lights-on Locomotion: optogenetic dissection of spinal circuits underlying locomotion in Vertebrates " (C. Wyart), ICM.



Andrea TINTERRI, "Brain development and plasticity" (S. Garel) École Normale Supérieure.



Lauriane HARRINGTON, "Integrative neurobiology of cholinergic systems" (U. Maskos) Institut Pasteur.



Mariana RAMOS-BROSSIER, "Genetics and physiopathology of neurodevelopmental disorders" (P. Billuart & J. Chelly), Institut de Recherche Biomédicale Cochin.



Darinka TRÜBUTSCHEK, "Consciousness, Number Processing, Reading", (S. Dehaene), Inserm-CEA Cognitive Neuroimaging Unit.



Arakaki TAKAFUMI, "The interplay between feedback loops and striatal feedforward inhibition in the normal and pathological dynamics of the basal ganglia-thalamo-cortical network", (D. Hansel), Fédération de Recherche en Neurosciences.

## ALUMNI

Since 2011, 37 ENP students started to graduate in Neuroscience from our partner universities.

They keep in touch and form a network of alumni all over the world, both in the private and public sectors.

Overview of the current professional situations of Alumni:

### **20 Alumni stayed in Europe:**

#### **14 Post docs, 1 Research Scientist and 5 in the Private sector**

- BioBank, Presles-en-Brie, France
- Campus Biotech, Geneva, Switzerland
- Collège de France, Paris, France (2)
- Cyanapse, Brighton, United Kingdom
- Ecole Normale Supérieure, Paris, France
- GlaxoSmithKleine, Wavre, Belgium
- Institut des Neurosciences Paris Saclay NeuroPSI, France
- Institut du Cerveau et de la Moelle, Paris, France (2)
- Institut Jacques Monod, Paris, France
- Institut Necker Enfants Malades, Paris, France
- Mauna Kea Technologies, Paris, France
- Newton Europe, Abingdon, United Kingdom
- Netherlands Institute for Neuroscience, Amsterdam, Netherlands
- Unité de Neurosciences, Information et Complexité, Gif-sur-Yvette, France
- University College, London, United Kingdom
- University of Cambridge, United Kingdom
- University of Dundee, United Kingdom
- University of Geneva, Switzerland

### **13 Alumni are in the Americas:**

#### **11 Postdocs, 1 Research Scientist and 1 in the private sector**

- Cold Spring Harbour Laboratory, New York, USA
- Columbia University, New York City, USA
- Douglas Corporation, Eden Prairie, Minnesota, USA
- Harvard Medical School, Boston, Massachusetts, USA
- Harvard University, Boston, Massachusetts, USA
- Massachusetts Institute of Technology, Boston, USA
- Northeastern University, Boston, Massachusetts, USA
- Princeton University, New Jersey, USA
- Salk Institute for Biological Studies, La Jolla, California, USA
- University of California, San Francisco, USA (2)
- University of Minnesota, Minneapolis, USA
- University of Oregon, Eugene, USA

### **1 Alumnus is Postdoc in Asia:**

- Institute of Neuroscience of Zhejiang University, China.

**3 unknown**

## Starting Grant

The Starting Grant program's ambition is to attract and support international scientists to allow them to develop their research project freely and set up their team rapidly.

**2013 – 2014** *Please refer to the 2007-2012 Activity report to see the list of the 5 starting grants allocated.*  
No Starting Grant was attributed.

## Interns

### 2013 - 2014

No intern hosted.

### 2015: International Collaboration with Chile

**Diego Candia** (Civil Engineering and Biotechnology, University of Chile) hosted by Catherine Tallon Baudry, team: "Visual Cognition Group", ENS.

**Javier Palma** (Electric Engineering, University of Santiago) hosted by Serge Picaud, team: "Retinal information processing: pharmacology and pathologies", Institut de la Vision.

**Susana Paredes** (Engineering in Biotechnology, University of Chile) hosted by German Sumbre, team: "Neuroethology of the Zebrafish", IBENS.

**Estefani Saint-Jour** (Biochemistry, Catholic University of Valparaiso) hosted by Jocelyne Caboche, team: "Neuronal signaling and gene regulation", Neuroscience Paris Seine.

**Bryon Silva** (Biochemistry, Catholic University of Chile) hosted by Thomas Pr eat, team: "Genes and dynamics of memory systems", ESPCI Paris Tech.

### 2016: International Collaboration with Chile

**Alexandra GARCIA** (Biochemistry, University of Chile) hosted by Jocelyne Caboche, team: "Neuronal signaling and gene regulation", Neuroscience Paris Seine.

**Pamela GARRIDO** (Biochemistry, Austral University of Chile) hosted by Etienne Audinat, team: "Neuron-Glia Interactions", F d ration de Recherche en Neurosciences .

**Vicente MEDEL** (Philosophy, University of Chile) hosted by Alain Destexhe, team: "Computational Neuroscience", UNIC.

**Daniela MOLINA** (Biochemistry, Pontifical Catholic University of Chile) hosted by Gilles Bonvento, team: "Cell-cell interactions in neurodegenerative diseases", Mircen.

**Roxana URETA** (Biochemistry, Pontifical Catholic University of Chile) hosted by Laure Rondi Reig, team: "Cerebellum, Navigation and Memory ", Neuroscience Paris Seine.

### 2017: International Collaboration with Chile

**Natalia BEIZA** (Biological Sciences, University of Chile) hosted by Filippo DEL BENE.

**Maria GAETE** (Biochemistry, University of Chile) hosted by Serge LAROCHE.

**Marcela OVANDO** (Neuroscience, Catholic University of Valparaiso) hosted by Richard LEVY.

**Vicente TIZNADO** (Biochemistry, Pontifical Catholic University of Chile) hosted by Angelo ARLEO.

**Josefa VIAL** (Biology, Pontifical Catholic University of Chile) hosted by Jean LIVET.

# Invited Scientists

The Invited Scientists program strengthens collaborations between ENP teams and renowned international scientists.

**2013** *Please refer to the 2007-2012 Activity report to see the list of prior invited scientists*

**Hongjun Song** (John Hopkins University, Baltimore) for 2 months,  
"Perception and memory" Pierre Marie Lledo, Genes, Synapses, Cognition at Institut Pasteur

**2014**

**Pierre-Gilles Henry** (Center for Magnetic Resonance Research, Minneapolis) for 4 months,  
"Normal and abnormal motor control" Stéphane Lehéricy at ICM  
"Cell-cell interactions in neurodegenerative diseases" Gilles Bonvento at MIRCent

**Terri Wood** (Dept. Neurology and Neuroscience, Rutgers New Jersey Medical School, Newark, USA) for 9 months,  
"Molecular and Cellular approaches of myelin repair" Brahim Nait Oumesmar at ICM

**2015**

**Oliver Griesbeck** (Dept. Systems and Computational Neurobiology, Max-Planck Institute of Neurobiology, Munich) for 3 months,  
"Cellular Integration of Neuromodulatory Processes" Pierre Vincent at the Institut de Biologie Paris Seine

**Joel Levine** (Dept. Neurobiology and Behavior, Associate Dean of Stonybrook University, New York) for 6 months,  
Development of oligodendrocytes and neurovascular interactions Bernard Zalc, at ICM

**2016**

**Gilad Barnea** (Division of Biology and Medicine, Brown University, New York) for 6 months,  
"Neural circuits and behaviour" Alexander Fleischmann at the CIRB, Collège de France

## Post Docs

ENP's flexibility gives the opportunity to ENP members to hire young and talented scientists at the very beginning of their career. The ENP Post Doc Program is a short-term solution to cover salary expenses for a limited period: it acts as a buffer before the team receives other grants and long-term support.

**2013** *Please refer to the 2007-2012 Activity report to see the list of prior postdocs.*

**Alessia Usardi** (PhD, University of King's College, London, UK) for 6 months in Fekrije Selimi's team: "Mice, Molecule and Synapse formation", CIRB - Collège de France

**Kei Yamamoto** (PhD, University of Tennessee, Memphis, USA) for 11 months in Philippe Vernier's team: "Development, evolution, plasticity of the nervous system" – INAF Campus de Gif-sur- Yvette

**Giselle Cheung** (PhD, Universtätsmedizin, Berlin, Germany) for 4 months in Nathalie Rouach's team: "Neuroglial interactions in cerebral physiopathology", CIRB - Collège de France

**Lisa Scheunemann** (PhD, Freie Universität Berlin, Germany) for 4 months in Thomas Prémat's team: "Gènes et dynamiques des systèmes de mémoire", Laboratoire Plasticité du Cerveau – ESPCI Paris Tech

**2014**

**Michael Graupner** (PhD, New York University) for 6 months in Alain Marty's team: "Gabaergic synapses in the cerebellum", Laboratoire de Physiologie Cérébrale - Université Paris Descartes

**2015**

**Tal Seidel Malkinson** (PhD, in Cognitive Neuroscience from Hebrew University of Jerusalem, Israel) for 2 months in Paolo Bartolomeo's team "PICNIC Lab Physiological Investigations of Clinically Normal & Impaired Cognition" - ICM

**Christina Bergmann** (PhD in Cognitive Neuroscience from Radboud University & International Max Planck Research School for Language Sciences, Nijmegen, The Netherlands) for 4 months in Emmanuel Dupoux's team: "Computational Mechanisms of Cognitive Development" - Laboratoire de Sciences Cognitives et Psycholinguistique, ENS

**Yashar Ahmadian** (PhD in Theoretical Condensed Matter Physics from Columbia University, New York, NY) for 3 months in Carole Levenes and David Hansel's team: "Cerebral Dynamics, Learning and Memory" - Centre de Neurophysique, Physiologie et Pathologie, Fédération de Recherche en Neurosciences

**2016**

**Luciano Paz** (PhD in Physics, Universidad de Buenos Aires, Argentina) for 4 months in Alain Destexhe's team: "Neurosciences Computationnelles" – Unité de Neuroscience Information et Complexité

# Scientific Events

Symposia, colloquia, conferences and thematic schools give our members opportunities to contribute to national and international research.

Responding to an increasing need for sponsorship, the ENP meets scientists' requests in supporting their workshops and presence in large international symposia.

**2013** *Please refer to the 2007-2012 Activity report to see the list of prior events.*

## Organized by ENP

**International ENP Spring School: "Optical Imaging and Electrophysiological methods in Neuroscience"**, June 18 – 28<sup>th</sup> 2013, Université Paris Descartes.

Organized by Brandon Stell, Federico Trigo, David Ogden (ENP), Stéphane Dieudonné (ENP) et Boris Barbour (ENP).

18 selected students and 41 speakers.

**ENP DAYS 2013**, September 16 – 17<sup>th</sup> 2013, Grand Hôtel le Touquet – Paris – Plage.

Lectures : "The Cerebellar Circuit : from Synapse to Behavior" by M. Carey, "Dynamics of Olfactory Memory Phases in Drosophila" by T. Préat.

Workshops: "Nervous System Development". Speakers: L. Bourdieu, J.-F. Brunet, F. Del Bene, V. Chevalyere, L. Maroteaux, "Pathology" : L. Naccache, C. Lubetzki, J. L. Martinot.

Poster session presented by Graduate Program students and guests.

103 attendees.

**Semaine du cerveau**, March 11 – 17<sup>th</sup> 2013, Cité internationale universitaire de Paris & ICM.

Organizers : European Dana Alliance for the Brain, FRC, Société des Neurosciences. ENP events:

"Miam miam ! Odeurs, goûts et plaisir de manger" presented by H. Gurden (CNRS) et B. Beaugé (Food critic), 144 attendees.

"Musique en Tête" presented by H. Blockus, U. L. Böhm, E. Cahill, A. Mohebiany, V. Skvortsova, A. F. Teixeira Borges, D. Trübtschek (ENP Graduate students) and A. Destexhe (CNRS).

170 attendees.

**Society for Neuroscience annual meeting**, November 9 – 13<sup>th</sup> 2013, San Diego

Organizers: Inserm, the Ecole des Neurosciences de Paris Ile de France, Aviesan ITMO Neuroscience, Cognitive Science and Psychiatry, the French Society for Neuroscience, the scientific department of the Embassy of France in the U.S.

Over 600 visitors at the "French Neuroscience from Education to Research" booth.

## Supported by ENP

Conference on "**Interactions between Space, Time and Number: 20 Years of Research**" on 26<sup>th</sup> February 2013, Auditorium of Collège de France

Organizers: Stanislas Dehaene (CEA Saclay, Cognitive Neuroimaging Unit), Martin Fischer (University of Postdam, Germany) - Marco Zorzi (University of Padova, Italy) - Samuel Shaki (Ariel University Center, Israel)

450 attendees.

**EMBO WORKSHOP**: "Semaphorin function and mechanism of action" from 29<sup>th</sup> to 31<sup>st</sup> October 2013, Abbaye des Vaux de Cernay

Organizers: Alain Chedotal (Institut de la Vision, "Role of axon guidance molecules"), Alex Kolodkin (John Hopkins School of Medicine, Baltimore, USA) , Jeroen Pasterkamp ( University Medical Center, Utrecht, Netherlands)

82 attendees and 16 speakers.

**"22nd Annual Computational Neuroscience Meeting CNS 2013"** from 13<sup>th</sup> to 18<sup>th</sup> July 2013 - Paris Descartes

Organizers: Alain Destexhe (INAF "Oscillatory and stochastic dynamics in thalamo-cortical networks") Nicolas Brunel - Gianluigi Mongillo (Paris Descartes) and Boris Gutkin (ENS, "Groupe de neurosciences théoriques" GNT)

787 attendees

**"Brains and Roses, 2nd International Symposium on Olfaction"** from 19<sup>th</sup> au 20<sup>th</sup> September 2013, Collège de France

Organizers: Alexander Fleischmann (Collège de France "Neural Circuits and Behaviour") Dr. Andreas Schaefer (Max Planck Institute in Heideberg, Germany) and Mr. Sandeep R. Datta (Harvard University, Boston, USA)

100 attendees.

**"International Conference on Spastic Paraplegia and Ataxia"** Colloque Spatac from 11<sup>th</sup> to 13<sup>th</sup> June 2013, ICM

Organized by Ataxia Study Group Durr, Stevanin, Grassner, Pandolfo

More than 200 attendees.

## 2014

### Organized by ENP

**Semaine du cerveau**, March 10 – 16<sup>th</sup> 2014, Cité internationale universitaire de Paris & ESPCI Paris Tech.

Organizers : European Dana Alliance for the Brain, FRC, Société des Neurosciences. ENP events:

"Sens à science, musique et olfaction" presented by C. Martin (CNRS) et L. Assoulen (composer, perfume creator) 90 attendees.

"Améliorez vos performances cognitives !" presented by Ph. Faure (Neuroscience Paris Seine) and V. Bercier, M. Dongelmans, J. Fuentealba, S. Mozafari, M. Ramos-Brossier, V. Skvortsova, R. Todorova (ENP Graduate students). 170 attendees.

**FENS Forum of Neuroscience**, biannual meeting organized by the Federation of European Neuroscience Societies in Milan, July 5th to 9th, booth 83 of the Exhibition Hall of the Milano Congressi.

Over 640 visitors.

**Society for Neuroscience annual meeting**, November 15 – 19<sup>th</sup> 2014, Washington DC

Organizers: Inserm, the Ecole des Neurosciences de Paris Ile de France, Aviesan ITMO Neuroscience, Cognitive Science and Psychiatry, the French Society for Neuroscience, the scientific department of the Embassy of France in the U.S.

Over 850 visitors at the "French Neuroscience from Education to Research" booth.

Over 200 visitors at the ENP booth of the Graduate School Fair.

### Supported by ENP

**"13<sup>th</sup> Cognitive Science Forum"**, March 22<sup>nd</sup>, Couvent des Cordeliers, Paris.

Organizer: Cognivence students' association

Public and specialized conferences, exhibition, movies, workshops.

**"4th International Symposium on The Biology of Decision Making"**, May 13-14<sup>th</sup>, ICM, Paris.

Organizers : Mathias Pessiglione (Inserm / ICM), Thomas Boraud (CNRS / Univ. Bordeaux 2), Sacha Bourgeois-Gironde (Université d'Aix-Marseille / Institut Jean Nicod), Mehdi Khamassi (CNRS / UPMC) 14 international speakers.

**"Multielectrode Systems and Signal Processing for Neuroscience Annual Meeting"**, October 13-15<sup>th</sup>,

Gif-sur-Yvette. Organizers : Pierre Meyrand (U. Bordeaux 1), Daniel Shulz (UNIC-CNRS, Gif sur Yvette), Clément Léna (ENS, Paris), Karim Benchenane (ESPCI, Paris), Thomas Boraud (MAC, U Bordeaux 2),



Frédéric Chavane (INT, Marseille), Jean-Marc Edeline (CNPS, Orsay), Valérie Ego-Stengel (UNIC-CNRS, Gif sur Yvette), Samuel Garcia (U. Lyon 1), Régis Guillemaud (CEA LETI, Grenoble), Xavier Leinekugel (U. Bordeaux 2), Alexa Riehle (INT, Marseille)  
150 participants, including 85 participants to the minischool.

**"Emerging Imaging Technologies in Neuroscience. Neuroscience Workshop Saclay (NeWS) "**,  
December 4-5<sup>th</sup>, Imagif, Gif-sur-Yvette, sponsoring the lecture of Dr Florian Engert (Harvard)  
Organizers: Brice Bathellier (INAF, UNIC), Philippe Vernier (CNRS)  
130 participants.

**"INC Days : Neurodevelopmental disorders"**,  
December 4<sup>th</sup>, Salle du Conseil, Paris Descartes University  
Organizers : T. Jay and M-O. Krebs (CPN, INSERM - Paris Descartes), J. Gervain (LPP, CNRS – Paris Descartes), P. Gressens (NACD, INSERM - Paris Diderot), C. Meunier (CNPP, CNRS – Paris Descartes).  
100 participants.

## 2015

### Organized by ENP

**ENP DAYS La Clusaz**, January 21st-23d 2015, Hôtel Alpen Roc, La Clusaz.  
Lectures : "The natural history of spatial hearing" by B. Grothe, "Language from an embrained perspective" by P. Hagoort. Workshops: "Workshop Integrated and Cellular Neurophysiology" Speakers: M. C. Angulo, B. Bathellier, K. Benchenane." Cognisiences" Speakers: N. George, C. Tallon-Baudry and E. Dupoux.  
Poster session presented by Graduate Program students and guests. 99 attendees.

**Semaine du cerveau**, March 16 – 22<sup>nd</sup> 2015, Maison des Associations de Solidarité. Organizers : European Dana Alliance for the Brain, FRC, Société des Neurosciences. ENP event: "Qu'as-tu vu ? Perception, illusions, attention" presented by Anne-Lise Paradis (CNRS) and C. Gilsons (magician). 35 attendees.

**Jardins ouverts pour le Neurodon**, May 1<sup>st</sup>-3<sup>d</sup>. Organizers : Fédération pour la Recherche sur le Cerveau en partenariat avec la Fondation des Parcs et Jardins de France et la Fondation Georges Truffaut. Participating ENP students : Mariana Ramos-Brossier, Jenna Sternberg, and Juliette Le Douce (Bonvento's team).

**Society for Neuroscience annual meeting**, October 17<sup>th</sup>- 21<sup>th</sup>, Chicago IL  
Organizers: Inserm, the Ecole des Neurosciences de Paris Ile de France, Aviesan ITMO Neuroscience, Cognitive Science and Psychiatry, the French Society for Neuroscience, the scientific department of the Embassy of France in the U.S.  
Over 700 visitors at the booth "French Neuroscience: from Education to Research".  
Over 200 visitors at the ENP booth of the Graduate School Fair

### Supported by ENP

**"The Brain, beyond neurons"**, May 11<sup>th</sup>-12<sup>th</sup>, Campus des Cordeliers. Organizers : Maria Cecilia Angulo, Etienne Audinat, Serge Charpak. 130 attendees

**"Optical Imaging and electrophysiological methods in Neuroscience"**, June 9<sup>th</sup>-19<sup>th</sup> 2015, Paris Descartes University. Organizers: ENP members David Ogden, Boris Barbour and Brandon Stell.  
18 selected students

**"Association for the scientific study of Consciousness"**, July 7<sup>th</sup>-10<sup>th</sup>, Centre universitaire des Saints-Pères. Organizers: Sid Kouider, Elisabeth Pacherie, Catherine Tallon-Baudry. 500 attendees

**"Basal ganglia in Health and Disease"**, October 2<sup>nd</sup>, Réfectoire des Cordeliers, Université Pierre et Marie Curie. Organizers : Frank J Meye, Assunta Pelosi and Salvatore Lecca. 164 attendees.

**"IBPS Inaugural Symposium"**, October 14<sup>th</sup>-16<sup>th</sup>, Université Pierre et Marie Curie.  
Organizers: Hervé Chneiweiss, Michel Labouesse, Bertrand Friguet, Dominique Higuët, Sylvie Schneider-Maunoury, Alessandra Carbone. 250 attendees.

## 2016

### Organized by ENP

**ENP DAYS 2016**, January 25<sup>th</sup> -27<sup>th</sup> 2016, Hôtel Château Saint Just, Belle-Eglise.  
Lectures : " Protein aggregates in neurodegenerative diseases: do they really matter? " by MG Spillantini, "All-optical interrogation of neural circuits" by M. Hausser. New ENP teams conferences. Speakers: F. Bellivier, P. Billuart, Z. Lenkei, R. Brette, and M. Zugaro.  
Poster session presented by Graduate Program students and guests. 110 attendees.

**Semaine du cerveau**, March 14<sup>th</sup> -20<sup>th</sup> 2016. Organizers : European Dana Alliance for the Brain, FRC, Société des Neurosciences. ENP event, March 17<sup>th</sup>, amphithéâtre R. Garcin de l'Hôpital Sainte Anne: "Le voyage spatial perturbe-t-il notre horloge interne ? Comprendre notre sommeil pour mieux dormir" presented by François Rouyer (NeuroPSI) and Armelle Rancillac (Collège de France). 118 attendees.

### Supported by ENP

**"NeWS 2016: conference New concepts in neuronal pattern encoding"**, January 28<sup>th</sup>-29<sup>th</sup>, Imagif.  
Organizer: Brice Bathellier. 199 attendees.

**"Collective and Emotion"**, April 14<sup>th</sup>-15<sup>th</sup>, Institute for Advanced Studies, Hotel de Lauzun.  
Organizers: Julie Grèzes, Guillaume Dezeache, Elisabeth Pacherie, Gretty Mirdal. 56 attendees.

**"Forum des Sciences Cognitives"**, April 9<sup>th</sup>, Réfectoire des Cordeliers.  
Organizer: Student association Cognivence. 3000 visitors.

**"6th International Symposium on the Biology of Decision Making (SBDM)"**, May 30<sup>th</sup>-June 1<sup>st</sup>, Institut du Cerveau et de la Moëlle épinière.  
Organizers: Mathias Pessiglione, Mehdi Khamassi, Etienne Koechlin. 70 attendees from 17 countries.

**International ENP Spring School: "ENP -Optical Imaging and Electrophysiological methods in Neuroscience"**, May 9<sup>th</sup>-16<sup>th</sup>, Université Paris Descartes.  
Organizers: Boris Barbour, Brandon Stell, Federico Trigo, Stéphane Dieudonné.  
Approx. 18 selected students and 40 speakers.

**"Colloque international sur les Parapésies et les Ataxies"**, June 23<sup>d</sup>-25<sup>th</sup>, Institut du Cerveau et de la Moëlle épinière.  
Organizers: Alexis Brice, Alexandra Durr, Giovanni Stevanin. 230 attendees.

**"GABA signaling in the Brain"**, October 14<sup>th</sup>, Université Pierre et Marie Curie.  
Organizers: Jean-Christophe Poncer, Sabine Lévi, Christine Métin. 221 attendees.

**2017**

### **Organized by ENP**

**ENP DAYS 2017**, March 22<sup>nd</sup>-24<sup>th</sup>, Collège des Bernardins, Paris.

Lectures by . Dr Jean-Antoine Girault, Prof. Michela Matteoli, Prof. Pierre Magistretti, Prof. Zoltán Molnár, Prof. Giovanna Mallucci, Prof. Thomas Mrsic-Flogel, and Prof. Suzanna Herculano-Houzel. New ENP teams conferences. Speakers: G. Debrégeas, V. van Wassenhove, A. Christophe, S. Luquet. Poster session presented by Graduate Program students, ENP teams and guests. 210 expected attendees.

**Semaine du cerveau**, March 13<sup>th</sup>-19<sup>th</sup>. Organizers : European Dana Alliance for the Brain, FRC, Société des Neurosciences. ENP event, March 16<sup>th</sup>, salle Jean Jaurès, ENS: " La Neurobiologie des relations : Comment les influences sociales et biologiques contribuent-elles à construire le cerveau ?" presented by ENP GP students Hannah Metzler, Sarah Goethals, Margot Roell and Prof. Hugo Cousillas from the Université de Rennes. 180 expected attendees.

### **Supported by ENP**

**ENP-Université Paris Descartes-ENS spring course on Optical Imaging and Electrophysiological Recording in Neuroscience**, May /June, Université Paris Descartes.

Organizers: Boris Barbour, Brandon Stell, Federico Trigo, Stéphane Dieudonné.

Members of the following ENP teams also contribute to the course: Bourdieu, Chevaleyre, Piskorowski, Supplisson, Emiliani, Livet, Marty, Poncer, Lévi, Sumbre, Zytnicki.

Approx. 18 selected students and 40 speakers.

**IBPS Summer School on Optical Biosensors**, August 27<sup>th</sup> to September 2<sup>d</sup>, Institut de Biologie Paris Seine, Université Pierre et Marie Curie.

Organizer: Pierre Vincent.

12 expected students.

# New ENP Teams

## Year by year

Each year, a call is issued to invite Neuroscience teams from all fields to apply and join in for a 4 years period.

**In February 2016 the ENP is composed by a total of 115 teams from 23 research centers.**

### 2015

18 teams applied to the 2015 call. 10 new teams were selected, and 5 teams from year 2010 were renewed. In 2016 the ENP is composed by a total of 114 teams from 23 research centers.

#### Principal Investigators of 2015 teams

##### New Teams

BIRMAN Serge  
BOILLEE Séverine  
BORMUTH Volker  
CHRISTOPHE Anne  
DEBREGEAS Georges  
DHENAIN Marc  
LEVY Richard  
LUQUET Serge  
NICOL Xavier  
VAN WASSENHOVE Virginie

##### Renewals

DEHAENE Stanislas  
GROSZER Matthias  
KREBS Marie Odile  
PERRON Muriel  
PROCHIANTZ Alain

### 2014

24 teams applied to the 2014 call. 9 new teams were selected, and 8 teams from year 2009 were renewed. In 2015 the ENP is composed by a total of 109 teams from 21 research centers.

#### Principal Investigators of 2014 teams

##### New Teams

ARLEO Angelo  
BELLIVIER Frank  
BILLUART Pierre  
BRETTE Romain  
DECLEVES Xavier  
JANKE Carsten  
LENKEI Zsolt  
RETAUX Sylvie  
ZUGARO Michaël

##### Renewals

AUDINAT Etienne  
BACHOUD-LEVI Anne-Catherine  
BALLY-CUIF Laure  
HANSEL David  
MALLET Luc  
MAMASSIAN Pascal  
SHERRARD Rachel  
ZYTNIICKI Daniel

## 2013

80 teams applied to the 2013 call. 18 new teams were selected, 49 teams from years 2007 and 2008 were renewed. In 2014 the ENP is composed by a total of 111 teams from 23 research centers.

### Principal Investigators of 2013 teams

#### New Teams

ANGULO Maria Cecilia  
BAL Thierry  
BATHÉLLIER Brice  
BENCHENANE Karim  
DARMON Michèle  
DUPOUX Emmanuel  
GASNIER Bruno  
GEORGE Nathalie / FOSSATI Philippe  
GREZES Julie  
HOUDÉ Olivier  
JARRAYA Béchir  
KOUIDER Sid  
LANFUMEY Laurence  
LEGENDRE Pascal / MANGIN Jean-Marie  
NACCACHE Lionel / BARTOLOMEO Paolo  
SUMBRE German  
TALLON BAUDRY Catherine  
TRONCHE François

#### Renewals

BONVENTO Gilles  
BRICE Alexis  
CABOCHE Jocelyne / VANHOUTTE Peter  
CARTIER Nathalie / AUBOURG Patrick  
CHARPAK Serge  
CHEDOTAL Alain  
CHNEIWEISS Hervé / JUNIER Marie-Pierre  
DESTEXHE Alain  
DI GREGORIO David  
EI MESTIKAWY Salah  
EMILIANI Valentina  
FAURE Philippe  
FONTAINE Bertrand / NICOLE Sophie  
FORTIN Gilles  
FRANCIS Fiona / GOUTEBROZE Laurence  
FREGNAC Yves  
GALLI Thierry  
GASPAR Patricia / METIN Christine  
GIAUME Christian  
GIRAULT Jean-Antoine/ DENIS Hervé  
GIROS Bruno  
GUTKIN Boris / OSTOJIC Srdjan  
HAIK Stéphane/ POTIER Marie-Claude  
HIRSCH Etienne / HUNOT Stéphane  
KOECHLIN Etienne  
LAMBOLEZ Bertrand / CAULI Bruno  
LAROCHE Serge  
LEBOYER Marion / JAMAIN Stéphane  
LEGUERN Eric / BAULAC Stéphanie  
LEHÉRICY Stéphane  
LÉVEILLARD Thierry  
LIVET Jean  
LLEDO Pierre-Marie  
MARTINOT Jean – Luc  
MARTY Alain  
MASKOS Uwe  
NAIT OUMESMAR Brahim / BARON VAN  
EVERCOOREN Anne  
PESSIGLIONE Mathias / DAUNIZEAU Jean /  
PETIT Christine  
PICAUD Serge  
PONCER Jean Christophe / LEVI Sabine  
RAMUS Franck  
RONDI - REIG Laure  
ROUYER François  
SELIMI Fekrije  
THOMAS Jean-Léon / ZALC Bernard  
VENANCE Laurent  
VERNIER Philippe  
VIDAILHET Marie / LEHÉRICY Stéphane  
VINCENT Pierre

# The ENP Network

114 research teams / 23 research centers

## Teams by Centers

### Centre de Psychiatrie et Neurosciences - Centre Hospitalier Sainte Anne UMRS 894

KREBS Marie-Odile / JAY Thérèse, Pathophysiology of Psychiatric disorders

LANFUMEY – MONGREDIEN Laurence, Pathophysiology of mood disorders and addiction

SIMONNEAU Michel, Vulnerability of Psychiatric and Addictive Disorders

### Collège de France

#### Center for Interdisciplinary Research in Biology UMR 7241–U 1050

FLEISCHMANN Alexander, Neural Circuits and Behavior

GIAUME Christian, Junctional communication and neuro-glio-vascular interactions

PROCHIANTZ Alain, Development & Neuropharmacology

ROUACH Nathalie, Neuroglial Interactions in Cerebral Physiopathology

SELIMI Fekrije, Mice, Molecules and Synapse formation

VENANCE Laurent, Dynamic and Pathophysiology of Neuronal Networks

ZUGARO Michael, Spatial memory and navigation

### École Normale Supérieure

#### Institut de Biologie de l'École Normale Supérieure UMR 8197–U 1024

BARBOUR Boris, Cerebellum group

BOURDIEU Laurent, Cortical dynamics and coding mechanisms

DIEUDONNE Stéphane / SUPPLISSON Stéphane, Inhibitory Transmission

GAREL Sonia, Brain development and Plasticity

SUMBRE German, Zebrafish Neuroethology

#### Laboratoire de Physique Statistique UMR 8550

NADAL Jean-Pierre / HAKIM Vincent, Complex networks and cognitive systems

#### Laboratoire de Neurosciences Cognitives U 960

GREZES Julie, Social Cognition Group

GUTKIN Boris / OSTOJIC Srdjan, Dynamical Neural Theory Group

KOECHLIN Etienne, Frontal lobe functions group

TALLON-BAUDRY Catherine, Visual Cognition Group

## **Laboratoire de Sciences Cognitives et Psycholinguistique UMR 8554**

CHRISTOPHE Anne, Language and its acquisition

DUPOUX Emmanuel, Computational Mechanisms of Cognitive Development

KOUIDER Sid, Brain and Consciousness

RAMUS Franck, Cognitive development and pathology

## **Laboratoire des Systèmes Perceptifs UMR 8248**

MAMASSIAN Pascal/LORENCEAU Jean, Vision Group

## **ESPCI Paris Tech**

### **Laboratoire de Plasticité du Cerveau UMR 8249**

BENCHENANE Karim, Memory Oscillations and Brain States (MOBS)

BIRMAN Serge, Genes Circuits Rhythms and Neuropathology

LENKEI Zolt, Neuronal Structure and Dynamics

PREAT Thomas, Genes and Dynamics of Memory Systems

## **Faculté de Pharmacie de Paris UMRS 1144**

BELLIVIER Frank, Biomarkers of relapse and therapeutic response in addiction and mood disorders

DECLEVES Xavier, Pathophysiology and therapeutic targets of the blood-brain barrier

## **Fédération de recherche en neurosciences**

### **Centre de Neurophysique, Physiologie et Pathologie UMR 8119**

HANSEL David/ LEVENES Carole, Cerebral Dynamics, Plasticity, Learning

ZYTNIKI Daniel, Spinal physiology and pathophysiology

### **Laboratory of Brain Physiology UMR 8118**

CHEVALEYRE Vivien / PISKOROWSKI Rebecca, Synaptic plasticity and neuronal circuits

MARTY Alain, Gabaergic synapses in the cerebellum

### **Neurophotonic Laboratory UMR 8250**

EMILIANI Valentina, Wavefront-Engineering Microscopy

GASNIER Bruno, Membrane Transport

### **Neurophysiology and New Microscopies Laboratory U 1128**

ANGULO Maria Cecilia, Physiology of NG2 Cells

AUDINAT Etienne, Neuron-Glia Interactions

CHARPAK Serge, From sensory processing to functional hyperaemia

### **UFR Biomédicale FR 3636**

AGULHON Cendra, Glia-Glia and Glia-neuron interactions group

## **Institut du Cerveau et de la Moelle épinière CHU Pitié Salpêtrière UMRS 1127-UMR 7225**

BACCI Alberto, Cellular Physiology of Cortical Microcircuits  
BOILLÉE Séverine, ALS causes and mechanisms of motor neuron degeneration  
BRICE Alexis, Molecular basis, physiopathology and treatment of neurodegenerative diseases  
FONTAINE Bertrand / NICOLE Sophie, Neurogenetics and Physiology  
GEORGE Nathalie / FOSSATI Philippe, Social and affective neuroscience Team (SAN)  
HAIK Stéphane / POTIER Marie Claude, Alzheimer's and Prion diseases  
HIRSCH Etienne / HUNOT Stéphane, Experimental therapeutics of Parkinson Disease  
LE GUERN Eric / BAULAC Stéphanie, Genetics and physiopathology of epilepsies  
LEVY Richard, FRONTlab: the frontal systems, functions and dysfunctions  
MALLET Luc, Behavior, Emotion and Basal Ganglia  
NACCACHE Lionel / COHEN Laurent / BARTOLOMEO Paolo, PICNIC lab Physiological Investigations of Clinically Normal & Impaired Cognition  
NAIT OUMESMAR Brahim / BARON VAN EVERCOOREN Anne, Molecular and cellular approaches of myelin repair  
PESSIGLIONE Mathias / DAUNIZEAU Jean / BOURET Sébastien, Motivation, Brain and Behavior  
THOMAS Jean-Léon / ZALC Bernard, Development of oligodendrocytes and neurovascular interactions  
VIDAILHET Marie / LEHERICY Stéphane, Normal and abnormal motor control  
WYART Claire, Lights-on Locomotion: optogenetic dissection of spinal circuits underlying locomotion in Vertebrates

### **Centre de Neuro-Imagerie de Recherche UMRS 1127-UMR 7225**

LEHÉRICY Stéphane, Centre for NeuroImaging Research IRM

## **Imagen Service Hospitalier Frédéric Joliot U 1000**

MARTINOT Jean-Luc, Imaging and Psychiatry

## **Institut Curie – Centre de recherche**

### **Genetics and developmental biology U 934-UMR 3215**

DEL BENE Filippo, Neuronal circuit Development Group

### **Genotoxic stress and cancer UMR 3348**

CARSTEN Janke, Regulation of microtubule dynamics and function

## **Institut de Biologie Paris Seine FR 3631**

### **Neuroscience Paris Seine UMR 8246 U 1130/UPMC UMCR 18**

CABOCHE Jocelyne / VANHOUTTE Peter, Neuronal Signaling and Gene Regulation

CHNEIWEISS Hervé / JUNIER Marie-Pierre, Glial Plasticity

EL MESTIKAWY Salah, Normal and pathological Glutamatergic system

FAURE Philippe, Neurophysiology and Behavior

LEGENDRE Pascal / MANGIN Jean – Marie, Development of the Spinal Cord Organization  
DSCO



RONDI REIG Laure, Cerebellum, Navigation and Memory  
SCHNEIDER-MAUNOURY Sylvie, Morphogenesis of the vertebrate brain  
TRONCHE François, Gene Regulation and Adaptive Behaviors

### **Biological Adaptation and Ageing UMR 8256**

SHERRARD Rachel / MARIANI Jean, Brain development, repair and ageing  
VINCENT Pierre, Cellular integration of neuromodulatory processes

## **Institut de la Vision - Fondation Voir et Entendre U 968 UNMR 7210 UMRS 968**

ARLEO Angelo, Aging in vision and action  
BRETTE Romain, Computational neuroscience of sensory systems  
CHEDOTAL Alain, Role of axon guidance molecules  
LÉVEILLARD Thierry, Rod-derived cone viability signaling for the treatment of inherited retinal degenerations  
LIVET Jean, Development of neuronal circuits  
NICOL Xavier, Codes de signaux intracellulaires pour le guidage axonal  
PICAUD Serge, Retinal information processing: pharmacology and pathologies

## **Institut de Psychologie Université Paris Descartes U 3521**

HOUDÉ Oliver, Laboratory for the Psychology of Child Development and Education

## **Institut de recherche biomédicale Cochin U 1016-UMR 8104**

BILLUART Pierre/ BIENVENU Thierry, Genetics and pathophysiology of mental spectrum disorders

## **Institut du Fer à Moulin UMRS 839**

FRANCIS Fiona / GOUTEBROZE Laurence, Cortical development and pathology  
GASPAR Patricia / METIN Christine, Developmental mechanisms of brain disorders  
GIRAULT Jean-Antoine / HERVE Denis, Neurotransmission and signaling  
GROSZER Matthias, Neurodevelopmental disorders  
MAMELI Manuel, Synapses in the pathophysiology of reward  
MAROTEAUX Luc, Serotonin signaling in plasticity and disease  
PONCER Jean / LÉVI Sabine, Plasticity in Cortical Networks and Epilepsy

## **Institut Jacques Monod UMR 7592**

GALLI Thierry, Membrane traffic in health and pathology **U 950**  
PIERANI Alessandra, Genetics and Development of the Cerebral Cortex

## **Institut Mondor de Recherche Biomédicale U 955**

BACHOUD-LEVI Anne Catherine, Interventional neuropsychology  
LEBOYER Marion / JAMAIN Stéphane, Psychiatry genetic

## **Institut Pasteur**

### **Département de Neurosciences UMR 3571**

DI GREGORIO David, Dynamic Neuronal Imaging  
LLEDO Pierre-Marie, Perception and Memory  
MASKOS Uwe, Integrative Neurobiology of Cholinergic Systems  
PETIT Christine, Genetics and Physiology of Hearing, **UMRS 1120**

## **Laboratoire Jean Perrin UMR 8237**

BORMUTH Volker, Multisensory signal processing: From whole-brain activity to behavior  
DEBREGEAS Georges, Neuroimaging and behavior of the zebrafish

## **Molecular Imaging Research Center (MIRCent)**

### **Laboratoire des Maladies Neurodégénératives UMR 9199**

BONVENTO Gilles, Cell-cell interactions in neurodegenerative diseases  
DHENAIN Marc, Alzheimer's Disease and brain aging: Multimodal imaging and therapy

## **Paris-Saclay Institute of Neuroscience NeuroPSI UMR 9197**

### **Département Development and Evolution of the Brain**

BALLY CUIF Laure, Zebrafish Neurogenetics (ZEN)  
PERRON Muriel, SCA NR Stem cells & Neurogenesis in the Retina  
RETAUX Sylvie, Development and evolution of the forebrain (DECA)  
VERNIER Philippe, Development and evolution of neurotransmission

### **Département Molecules & Circuits**

FORTIN Gilles, Hindbrain Integrative Neurobiology  
ROUYER François, Molecular genetics of circadian rhythms

### **Département Cognition & Behavior**

LAROCHE Serge, Cellular and Molecular Mechanisms of Plasticity and Memory

## **Unit of Neuroscience Information and Complexity UNIC (FRE 3693)**

BAL Thierry, Neurocybernetics of Thalamic and Cortical Networks  
BATHÉLLIER Brice, Cortical Dynamics and Multisensory Processing  
DESTEXHE Alain, Computational Neuroscience  
FREGNAC Yves, Cogniscent: Synaptic integration and functional plasticity in primary visual cortex  
SHULZ Daniel, Neural Processing, Neuromodulation and sensory plasticity

## **Unité de Biologie Fonctionnelle et Adaptative BFA UMR 8251**

LUQUET Serge, Central Control of Feeding behaviour and Energy Expenditure (C2OFFEE)

## **Neurospin U562**

DEHAENE Stanislas, Cognitive Neuroimaging Unit  
VAN WASSENHOVE Virginie, Brain Dynamics



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