

# ENP ACTIVITY REPORT 2013 - 2018

[www.paris-neuroscience.fr](http://www.paris-neuroscience.fr)

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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.

## Founders

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

## The Network

**In 2018, the ENP gathers a network of 110 teams located in 21 research centers of the Paris region.**

## 6 multidisciplinary main research themes

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

## Strategy

- Developing ENP international training and guest professors, by way of new national and international partnerships.
- 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.

<http://www.paris-neuroscience.fr/en/board-trustees>

Chair: Alain Bravo. Honorary Presidents: Bernard Esambert, François Ailleret.

20 members representing founders and partners: CNRS, CEA, Inserm, Sorbonne University (SU ex-UPMC), Paris-Sud University and Paris Descartes University, 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.

<http://www.paris-neuroscience.fr/en/steering-committee>

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, Institut de la Vision – Inserm/Sorbonne University

**Alain Chedotal** – Role of axon guidance molecule, Institut de la Vision – Inserm/ Sorbonne University

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

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

**Philippe Faure** - Neurophysiology and Behavior, Neuroscience Paris Seine, IBPS/ Sorbonne University

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

**Thierry Galli** - Membrane Traffic In Healthy & Diseased Brain, Centre Psychiatrie et Neurosciences – Inserm

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

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

**Philippe Vernier** - Neurobiology & development, NeuroPSI Paris Saclay - CNRS

**Bernard Zalc** - Neurodegenerative diseases, ICM – Inserm/ Sorbonne University

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

<http://www.paris-neuroscience.fr/en/scientific-advisory-board>

**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: Yvette Hénin and 2 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:**

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

161 **Scientific events** and **6 scientific events consumer** supported and/or organized by ENP.

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

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

74 **Graduate students**, now 43 Alumni.

24 International **Interns**

Since 2013, ENP members published approximately 550 papers/year in international peer-reviewed journals, 24% of which in journals with impact factor >8.

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.

Since 2007, **74 students** have been recruited to the ENP Graduate Program.

## 2017 Students

Fanny EGGELER, Ruprecht-Karls-University Heidelberg, Germany.  
Akindé LAWRENCE, University of Amsterdam, Netherlands.  
Shayan MOGHIMYFIROOZABAD, Baha'i Institute for Higher Education, Iran.  
Alejandro URIBE, University of Antioquia, Colombia.  
Cansu YILDIRIM, Ecole Polytechnique Fédérale de Lausanne, Switzerland.

## 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<sup>1</sup>

## 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

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<sup>1</sup> Left the program in Year 1 before the Y2-4 Evaluation

## 2013 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

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

## Statistics

**Total of students**      **74**  
Gender                      64% Female / 36% Male

## Since 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/ (R. Brette) Institut de la Vision.



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



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

Jimmy OLUSAKIN, "Developmental mechanisms of brain disorders" (P. Gaspar and Ch. Métin), Institut du Fer à Moulin.



## 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, 44 ENP students started to graduate in Neuroscience from our partner universities.

## Overview of the professional profiles of Alumni:

### 26 Alumni stayed in Europe:

#### 13 Post docs, 10 tenured positions

- Assistance Publique – Hôpitaux de Paris, France
- University Paris Descartes
- School of Economics, Toulouse
- BioBank, Presles-en-Brie, France
- Campus Biotech, Geneva, Switzerland
- Centre de Psychiatrie et Neurosciences Centre Hospitalier Sainte Anne, Paris, France
- Collège de France, Paris, France
- Cyanapse, Brighton, United Kingdom
- Ecole Normale Supérieure, Paris, France
- GlaxoSmithKlein, Wavre, Belgium
- Institut Curie, Paris, France (2)
- Institut de Biologie Paris Seine, Paris, France
- Institut du Cerveau et de la Moelle, Paris, France (2)
- Institut Necker Enfants Malades, Paris, France
- Netherlands Institute for Neuroscience, Amsterdam, Netherlands
- Unité de Neurosciences, Information et Complexité, Gif-sur-Yvette, France
- Universitat Autònoma de Barcelona, Spain
- University College, London, United Kingdom
- University of Cambridge, United Kingdom
- University of Dundee, United Kingdom
- University of Geneva, Switzerland

#### 1 freelance worker in R&D, France

1 Reoriented (medicine school), France and 1 looking for a private job, France

### 14 Alumni are in the Americas:

#### 11 Postdocs, 2 tenured positions

- Cold Spring Harbour Laboratory, New York, USA
- Columbia University, New York City, USA
- Harvard Medical School, Boston, Massachusetts, USA
- Harvard University, Boston, Massachusetts, USA (2)
- Massachusetts Institute of Technology, Boston, USA
- Neurotech Company
- 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
- Robarts Research Institute, London, Canada

#### 1 Reoriented (Economist at GM Financial, TX, USA)

### 2 Alumni are in Asia:

#### 1 Postdoc, 1 tenured position

- Zhejiang University School of Medicine – Institute of Neuroscience and Technology, China.
- Capital Medical University - Department of Neurobiology, China

### 1 alumnus is at the Dept of neusosciences in Doha (Qatar)

1 alumnus's destiny is unknown

# Interns

## International Collaboration with Chile

The aim of this collaboration is to offer Chilean students the opportunity to discover the neuroscience research throughout internships in teams affiliated to the ENP network, the ENP Graduate Program and doctoral schools of the Paris' region.

### 2016-17

- **Natalia BEIZA** (Biological Sciences, University of Chile) hosted by Filippo Del Bene, team: "Neuronal circuit Development Group".
- **Maria GAETE** (Biochemistry, University of Chile) hosted by Serge Laroche, team: "Cellular and Molecular Mechanisms of Plasticity and Memory".
- **Marcela OVANDO** (Neuroscience, Catholic University of Valparaiso) hosted by Richard Lévy, team: "FRONTlab: the frontal systems, functions and dysfunctions".
- **Vicente TIZNADO** (Biochemistry, Pontifical Catholic University of Chile) hosted by Angelo Arleo, team: "Aging in vision and action".
- **Josefa VIAL** (Biology, Pontifical Catholic University of Chile) hosted by Jean Livet, team: "Development of neuronal circuits".

### 2015-16

- **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", Fédération 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.

### 2014-15

- **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 Prémat, team: "Genes and dynamics of memory systems", ESPCI Paris Tech.

Among the 15 trainees, **5 were recruited in France by ENP teams.**

- Natalia BEIZA has been recruited in **Volker Bormuth's** team (Laboratoire Jean Perrin) as **research engineer**.
- Diego CANDIA has been recruited in **Catherine Tallon Baudry's** team (Ecole Normale Supérieure) as **research engineer**.
- Marcela OVANDO has been recruited in **Richard Lévy's** team (ICM) as a **PhD student**.
- Estefani SAINT-JOUR has been recruited in **Jocelyne Caboche's** team (Institut de Biologie Paris Seine) as a **PhD student**.
- Bryon SILVA has been recruited through the **ENP Graduate Program** in **Thomas Prémat's** team (ESPCI Paris Tech).

## Invited Scientists

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

### 2018

**Manolis Fanto** (Department of Basic and Clinical Neuroscience, Institute of Psychiatry, Psychology and Neuroscience King's College London), 4 mois (Alexis Brice) – ICM Hôpital Pitié Salpêtrière, Paris.

**Nicholas Priebe** (Department of Neuroscience, University of Texas at Austin USA), 5 mois, (Cendra Aghulon) université Paris Descartes, Paris.

**William H. Seiple** (New York University, School of Medicine, USA), 5 mois, (Angelo Arléo) Institut de la Vision, Paris.

**Christopher Lapish** (Indiana University, Purdue University, Indianapolis, USA), 3 mois – (Boris Gutkin), Laboratoire de Neurosciences Cognitives, ENS, Paris

### 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

### 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

### 2014

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

**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

### 2013

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

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

## 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.

### 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

### 2014

**Michael Graupner** (PhD, New York University) for 6 months in Alain Marty's team: "Gabaergic synapses in the cerebellum", Laboratoire de Physiologie Cérébrale – Centre universitaire des Saints Pères Paris Descartes

### 2013

**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

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

# 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.

## 2018

### Organized by ENP

**ENP DAYS 2018**, September 19th-21st, Centre de Congrès de l'Aube, Troyes.

9 plenary lectures by international speakers; Jeremy Niven, Christian Lüscher, Hiroshi Kuba, Dwight Bergles, Anne-Dominique Lodeho-Devauchelle, Songhai Shi, Fiona Doetsch, Andrea Volterra, Michael Halassa) & 2 oral presentations by ENP team leaders Bassem Hassan, Daniel Pressnitzer.

### Supported by ENP

**"Optical Imaging and Electrophysiological Recording in Neuroscience"**, May 14<sup>th</sup>-25<sup>th</sup> 2018, Paris  
ENP - Q-Life - U. Paris Descartes - ICM - ENS

Organizers: David Ogden, Federico Trigo, Boris Barbour, Jonathan Bradley, Brandon Stell, Adrien Schramm, Stéphane Dieudonné.

18 Students - 33 Lectures (6 by ENP team leaders)

## 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. 130 attendees.

**Semaine du cerveau**, March 13th-19th. 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. 220 attendees.

### Supported by ENP

**"16<sup>th</sup> Forum des Sciences Cognitives. Expliquer le cerveau comprendre la société"**, 28<sup>th</sup>-29<sup>th</sup> April, Réfectoire des Cordeliers.

Organizer: Student association Cognivence.

**"Glial cells at the crossroads of innate immunity and brain functions"**, 12<sup>th</sup>-16<sup>th</sup> June, Roscoff (Britanny).

Organizer: Etienne Audinat.

**International ENP Spring School: "ENP-Université Paris Descartes-ENS spring course on Optical Imaging and Electrophysiological Recording in Neuroscience"**, 12th-24th 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.

**"Immune cells and the central nervous system"**, 17th-19th August, Château de Cély.  
Organizers : Violetta Zujovic, Séverine Boilée.

**"Myelin Biology: unraveling functions, mechanisms and therapies"**, 26<sup>th</sup> – 29<sup>th</sup> August, Iles des Embiez.  
Organizer: Anne Baron.

**"IBPS Summer School on Optical Biosensors"**, August 27th to September 2d, Institut de Biologie Paris Seine, Université Pierre et Marie Curie.  
Organizer: Pierre Vincent.  
12 expected students.

**"8th IFM colloquium - (Re)Constructing the nervous system : Stem cells and beyond"**, 6th October, Institut du Fer à Moulin.  
Organizer : Matthias Groszer.

## 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 Dezechache, 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.



## 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." Cognisciences" 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.

## 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.

**"4<sup>th</sup> 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.

## **2013**

### **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. Prétat.  
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:  
"Miami 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. Mohebani, 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.

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

# 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 November 2018, the ENP is composed by a total of 110 teams from 21 research centers.**

### 2016-2017

7 teams applied to the 2016 call. 3 new teams were selected, and 4 teams from year 2011 were renewed.

#### Principal Investigators of 2016 teams

##### New Teams

DENEVE Sophie  
HASSAN Bassem  
PRESSNITZER Daniel

##### Renewals

BACCI Alberto  
FLEISCHMANN Alexander  
PIERANI Alessandra  
SHULZ Daniel

### 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, 50 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

## 110 research teams / 21 research centers

### Teams by Centers

#### Centre de Psychiatrie et Neurosciences - Centre Hospitalier Sainte Anne U814

- ANGULO Maria-Cecilia, Interactions between neurons and oligodendroglia in myelination and myelin repair
- CHEVALEYRE Vivien / PIKOROWSKI Rebecca, Synaptic plasticity and neuronal circuits
- DARMON Michelle, Cellular biology and molecular pharmacology of central receptors
- GALLI Thierry, Membrane traffic in healthy and diseased brain
- KREBS Marie-Odile / JAY Thérèse, Pathophysiology of Psychiatric disorders
- PIERANI Alessandra, Genetics and Development of the Cerebral Cortex (IMAGINE /Necker)

#### Collège de France

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

- FLEISCHMANN Alexander, Neural Circuits and Behavior
- 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
- KOEHLIN 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
- PRESSNITZER Daniel, Audition Team

#### 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 Zsolt, 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**

- MARTY Alain, Gabaergic synapses in the cerebellum

### **Neurophotonics Laboratory UMR 8250**

- GASNIER Bruno, Membrane Transport

### **UFR Biomédicale FR 3636**

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

## **Institut du Cerveau et de la Moelle épinière (ICM)**

### **CHU Pitié Salpêtrière UMRS 1127–UMR 7225**

- BACCI Alberto, Cellular Physiology of Cortical Microcircuits
- BOILLEE 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
- HASSAN Bassem, Brain Development Team
- 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 L. / BARTOLOMEO P., Picnic lab: physiological investigations of clinically normal and 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, Probing dynamic sensory-motor integration in spinal circuits

### **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**

### **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
- ROND 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
- CHARPAK Serge, Neuroscience of Neuron/ Glia/ Vessels Interactions
- CHEDOTAL Alain, Role of axon guidance molecules
- DEL BENE Filippo, Development and Function of the vertebrate visual system
- EMILIANI Valentina, Wavefront-Engineering Microscopy
- 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 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
- MAROTEAUX Luc, Serotonin signaling in plasticity and disease
- PONCER Jean / LÉVI Sabine, Plasticity in Cortical Networks and Epilepsy

## **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**

- BALLY CUIF Laure, Zebrafish Neurogenetics (ZEN)
- 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

## **Neurospin U562**

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



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

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

- PERRON Muriel, SCaNR Stem cells & Neurogenesis in the Retina
- RETAUX Sylvie, Development and evolution of the forebrain (DECA)
- VERNIER Philippe, Development and evolution of neurotransmission

### **Departement Molecules & Circuits**

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

### **Departement 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
- BATHELLIER Brice, Cortical Dynamics and Multisensory Processing
- DESTEXHE Alain, Computational Neuroscience
- 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)



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