

ENP ACTIVITY REPORT 2013 - 2016

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Index

ENP Presentation	1
ENP Programs	3
Graduate Program	5
Starting Grant	8
Interns	9
Invited Scientists	9
Post Docs	11
Scientific Events	12
New ENP teams year by year	16
Teams by Centers	18

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: François Ailleret. 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.

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

63 **Graduate students**, now 29 Alumni.

19 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 2015, **63 students** have been recruited to the ENP Graduate Program.

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	63
Gender	67% Female / 33% Male

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



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

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

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

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

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

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

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

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



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, 29 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:

13 Alumni stayed in Europe :

10 Post docs, 1 Principal Scientist and 2 in the Private sector

- Aarhus University, Denmark
- BioBank, France
- Collège de France, France
- Ecole Normale Supérieure, France
- Fédération de Recherche en Neurosciences – Saints Pères, France
- Institut Jacques Monod, France
- Institut Necker Enfants Malades, France
- Mauna Kea Technologies, France
- Netherlands Institute for Neuroscience, Netherlands
- Trio Medicines, United Kingdom
- University of Geneva, Switzerland
- University of Cambridge, United Kingdom
- University of Sussex, United Kingdom

12 Alumni are in the Americas:

10 Postdocs, 1 Research Scientist and 1 in the private sector

- Caltech, Pasadena, California, USA
- Cold Spring Harbour Laboratory, New York, USA
- Columbia University, New York City, USA
- Douglas Corporation, Minnesota, USA
- Douglas Institute McGill, Montreal, Canada
- Harvard Medical School, Boston, USA
- New England Complex Systems Institute, Massachusetts, USA
- Northeastern University, Boston, USA
- Salk Institute for Biological Studies in La Jolla, California, USA
- University of California, San Francisco, USA (2)
- University of Minnesota, Minneapolis, USA

1 Alumnus is doing a Postdoc in Asia

- Institute of Neuroscience of the Chinese Academy of Sciences

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.

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 – 28th 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 – 17th 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 – 17th 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 – 13th 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 26th 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 29th to 31st 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 13th to 18th 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 19th au 20th 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 11th to 13th 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 – 16th 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 – 19th 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

"13th Cognitive Science Forum", March 22nd, 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 13-14th, 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 13-15th,

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 4-5th, 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 4th, 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 – 22nd 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 1st-3^d. 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 17th- 21th, 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 11th-12th, Campus des Cordeliers. Organizers : Maria Cecilia Angulo, Etienne Audinat, Serge Charpak. 130 attendees

"Optical Imaging and electrophysiological methods in Neuroscience", June 9th-19th 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 7th-10th, Centre universitaire des Saints-Pères. Organizers: Sid Kouider, Elisabeth Pacherie, Catherine Tallon-Baudry. 500 attendees

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

"IBPS Inaugural Symposium", October 14th-16th, 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 25th -27th 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 14th -20th 2016. Organizers : European Dana Alliance for the Brain, FRC, Société des Neurosciences. ENP event, March 17th, 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 28th-29th, Imagif.
Organizer: Brice Bathellier. 199 attendees.

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

"Forum des Sciences Cognitives", April 9th, Réfectoire des Cordeliers.
Organizer: Student association Cognivence. 3000 visitors.

"6th International Symposium on the Biology of Decision Making (SBDM)", May 30th-June 1st, Institut du Cerveau et de la Moëlle épinière.
Organizers: Mathias Pessiglione, Mehdi Khamassi, Etienne Koechlin.

International ENP Spring School: "ENP -Optical Imaging and Electrophysiological methods in Neuroscience", May 9th-16th, 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^d-25th, Institut du Cerveau et de la Moëlle épinière.
Organizers: Alexis Brice, Alexandra Durr, Giovanni Stevanin.

"GABA signaling in the Brain", October 14th, Université Pierre et Marie Curie.
Organizers: Jean-Christophe Poncer, Sabine Lévi, Christine Métin.

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

13 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
ZYTNIKI 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
BATHELLIER 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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