



# Frontiers in Biological Psychiatry

## Course

Academic year 2016-2017



# Frontiers in Biological Psychiatry

## Course

July 3<sup>rd</sup> – July 7<sup>th</sup>, 2017

### *Course organizers*

**Patricia GASPAR**  
Institut du Fer à Moulin  
Paris, France

**Stéphane JAMAIN**  
Groupe hospitalier Chenevier Mondor  
Créteil, France

**Marika NOSTEN-BERTRAND**  
Institut du Fer à Moulin  
Paris, France

### *Course coordinator*

Uwe **MASKOS**  
Institut Pasteur  
Paris, France

### *Laboratoire d'Excellence de Biologie pour la Psychiatrie (Labex Bio-Psy)*

**Jean-Antoine GIRAULT**  
Bio-Psy Director

**Brigitte BOUCHARD**  
Bio-Psy Executive Director

### LOCATION OF THE COURSE

Institut Pasteur  
25/28 rue du Dr Roux  
75724 Paris Cedex 15, France

and

Centre de recherche Neurospin  
Centre d'Etudes de Saclay  
91191 Gif-sur-Yvette, France

This course is a joint effort between the Pasteur Institute Teaching department and the Bio-Psy Laboratory of Excellence (Labex) and its partners to promote cutting-edge scientific training in Biological Psychiatry.

Exciting advances in Neurosciences and Genomics are transforming research in Psychiatry into a highly dynamic and fast-moving field. The next 10-year period is likely to be *“the decade of psychiatric disorders as research on mental illness is reaching an inflection point where insights from neuroscience and genetics will transform our understanding of psychiatric disorders”* (Peter Campbell, Nature Editor). These developments should allow better understanding of the origins and biological mechanisms of complex diseases such as depression, schizophrenia, addiction, and other disorders. Ongoing progress is also leading to the redefinition of the borders between disorders and is opening novel prospects for treatment and prevention. The aim of the *Frontiers in Biological Psychiatry (FBP)* Course is to give the participants an opportunity to get acquainted with and hopefully participate in the exciting development of the field.

The FBP Course gathers a team of international experts in both clinical psychiatry and basic research in neuroscience, genetics, and development. During this intense week, a combination of lectures and tutorial sessions will guide the participants through the most up-to-date openings in psychiatry, through the methodological approaches that have made them possible. Beyond the training sessions, on-site visits and discussions with experts will be organized to foster exchanges and convey curiosity for research among clinicians as well as understanding of the challenges facing clinicians among scientists.

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## Frontiers in Biological Psychiatry course

### Monday July 3rd

- 9:30 – 10:00 **Welcome and introduction to the course** Registrar's office  
(Institut Pasteur)  
Patricia GASPAR, Marika NOSTEN-BERTRAND and Stéphane JAMAIN  
(Course organizers)
- 10:00 – 10h45 Students personal presentations Part I (2 min each)
- 11:00 – 12:30 **Introduction** Paul HARRISON  
(MRC, UK)
- 12:30 – 13:30 Lunch**
- 13:30 – 14:00 Students personal presentations Part I (2 min each)
- 14:00 – 15:30 **Epigenetics** Jean-Antoine GIRAULT  
(Institut du fer à Moulin, Paris)
- 15:30 – 17:30 **Tutorial 1**  
Epigenetic modifications Stéphane JAMAIN/Lucille MARION-POLL
- 19h00 Diner with the organizers

### Tuesday July 4th

- 9:00 -10:30 **Environment and psychiatric disorders: a focus on childhood trauma** Bruno ETAIN  
(Lariboisière Hospital, Paris)
- 11:00 – 12:30 **Genetics of addictive disorders** Philip GORWOOD  
(Centre de Psychiatrie et de Neurosciences, Paris)
- 12:30 – 13:00 Lunch**
- Transfer to Robert Debré (by bus)***
- 14:00 - 17:00 **Tutorial 2 and Site visit (groups of 3-4 students)**  
Diagnosis and patients evaluation  
- *How to identify phenotypes common to different disorders?*  
- *Use of neuropsychology tests and behavioral scales* Richard DELORME  
(Robert Debré Hospital; Children Psychiatry Service)

## Wednesday July 5th

- 9:30 – 11:00 **Biomarkers** Marion Leboyer  
(Albert Chenevier Hospital)
- 11:00 – 12:30 **Treatable autoantibodies-mediated psychiatric disorders** Jérôme HONNORAT  
(CHU Lyon)
- 12:30 – 13h30 Lunch**
- 13:30 – 15:00 **Pharmacogenetics in psychiatry: where do we stand in 2016?** Chin EAP  
(University of Lausanne)  
(Hôpital Neurologique, CHU Lyon)
- 15:30 – 18:00 **On site *Tutorials 3 and 4 (at IBPS and ICM, respectively)***  
*Virtual Ball or “Mice and Men”*
- Thomas WATSON*  
(Institut Biologie Paris-Seine, CNRS)
- Mouse vs human behaviors*
- Eric BURGUIERE*  
(Institut du Cerveau et de la Moelle)

## Thursday July 6th

The morning will take place at Neurospin (CEA Saclay, 91191 Gif-sur-Yvette)

- 9:30 – 11h00 **Tutorial 5 and site visit**  
*Regions and networks in psychiatric disorders*
- Josselin HOUENOU  
Samuel SARRAZIN  
(CEA and Inserm IRBM, Créteil)
- 11h15 - 12h15 **Tutorial 5 and site visit (cont'ed)**  
*Small animals imaging*
- Josselin HOUENOU  
Samuel SARRAZIN
- Transfer to Pasteur Institute (by bus)***
- 13:00 - 14:00 Lunch**
- 14:30 – 16:00 **Tutorial 5**  
Connectomics and neuronal networks
- Patricia GASPAR and Anne TEISSIER  
(Institut du Fer à Moulin)

## Friday July 7th

- 10:00 - 11:00 **Lecture: Functional imaging**
- Andreas MEYER-LINDENBERG  
(Central Institute of Mental Health, Mannheim)
- 11h00 - 12h00 **Discussion**
- with Andreas MEYER-LINDENBERG
- 12:00 - 13:00 Lunch**
- 14:00 – 15:30 **Future developments: the contributions of iPS cells**
- Guo-LI MING  
(Johns Hopkins University, Baltimore, USA)
- 15:30 – 16:00 **iPS Cells : applications and limits**
- Stéphane NEDELEC  
(Institut du Fer à Moulin)

## Frontiers in Biological Psychiatry course

### ADDRESS DETAILS

#### *Course organizers*

**Ms Patricia GASPAR**

Institut du Fer à Moulin  
UMRS839  
17, rue du Fer à Moulin  
75005 Paris  
France



*email*

+33 - (0)1 45 87 61 28  
patricia.gaspar@inserm.fr

**Mr Stéphane JAMAIN**

IMRB - INSERM U955  
Groupe Hospitalier Chenevier Mondor  
40, rue de Mesly  
94000 Créteil  
France



*email*

+33 - (0)1 49 81 37 75  
stephane.jamain@inserm.fr

**Ms Marika NOSTEN-BERTRAND**

Institut du Fer à Moulin  
UMRS839  
17, rue du Fer à Moulin  
75005 Paris  
France



*email*

+33 - (0)1 45 87 61 46  
marika.nosten-bertrand@inserm.fr

#### *Course coordinator*

**Mr Uwe MASKOS**

Unité Neurobiologie Intégrative des Systèmes  
Cholinergiques  
Institut Pasteur  
25/28, rue du Dr Roux  
75724 Paris Cedex 15  
France



*email*

+33 - (0)1 45 68 88 06  
uwe.maskos@pasteur.fr

#### *Labex Bio-Psy*

**Jean-Antoine GIRAULT**

Bio-Psy Director  
Institut du Fer à Moulin  
17, rue du Fer à Moulin  
75005 Paris, France  
*email* jean-antoine.girault@inserm.fr

**Brigitte BOUCHARD**

Bio-Psy Executive Director  
Institut du Fer à Moulin  
17, rue du Fer à Moulin  
75005 Paris, France  
*email* brigitte.bouchard@inserm.fr

## Speakers

### Mr Eric BURGUIERE

Team BEBG  
ICM Brain Institute  
Pitié Salpêtrière Hospital  
47 boulevard de l'Hôpital  
75013 Paris



email

+33 - (0)1 57 27 44 25  
eric.burguire@gmail.com

### Mr Richard DELORME

Child and Adolescent Psychiatry Department  
Hôpital Robert Debré  
48, boulevard Serurier  
75019 Paris



email

+33 - (0)1 40 03 41 30  
richard.delorme@rdb.aphp.fr

### Mr Chin EAP

Centre des neurosciences psychiatriques  
Département de Psychiatrie du Centre hospitalier universitaire vaudois  
Site de Cery  
CH-1008 Prilly  
Ecole de pharmacie Genève - Lausanne  
Suisse



email

+ 41 021 643 64 38  
Chin.Eap@chuv.ch

### Mr Bruno ETAIN

Centre Expert Troubles Bipolaires  
Hôpital Lariboisière  
2 rue Ambroise Paré  
75010 Paris



email

+33 - (0)1 49 81 32 90  
bruno.etaïn@inserm.fr

### Mr Philip GORWOOD

CMME  
Hôpital Sainte-Anne (Paris Descartes Université)  
100, rue de la santé  
75674 PARIS Cedex 14



email

+33 - (0)1 45 65 86 39  
p.gorwood@ch-sainte-anne.fr

### Mr Jérôme HONNORAT

Service de Neuro-Oncologie  
Hôpital Neurologique  
59, boulevard Pinel  
69677 Lyon Cedex  
France



email

+33 - (0)4 72 35 78 08  
jerome.honnorat@chu-lyon.fr

### Mr Josselin HOUENOU

UNIACT  
Centre Neurospin  
Centre d'Etudes de Saclay  
91191 Gif-sur-Yvette  
France



email

+33 - (0)1.69.08.30.00  
josselin.houenou@inserm.fr

### Ms Guo LI MING +

Department of neuroscience email  
Johns Hopkins University  
733 N. Broadway  
Broadway Research Building,  
Baltimore, MD 2120  
USA



email

+ 011 443-287-7498  
gming1@jhmi.edu

**Ms Marion LEBOYER**

Pôle de psychiatrie  
Hôpital Albert Chenevier  
40 rue de Mesly  
94000 Créteil  
FRANCE



+33 - (0)1 49 81 30 51

*email*

*marion.leboyer@inserm.fr*

**Ms Lucile MARION-POLL**

Institut Curie  
Rue d'Ulm  
75005 Paris



+33 - (0)1 56 24 69 42

*email*

*lucile.marion-poll@curie.fr*

**Mr Andreas Meyer-LINDENBERG**

Central Institute of Mental Health,  
Mannheim  
Germany



+49 - (0)621 1703-2001 -2301

*email*

*a.meyer-lindenberg@zi-mannheim.de*

**Mme Anne TEISSIER**

Institut du Fer à Moulin  
UMRS839  
17, rue du Fer à Moulin  
75005 Paris



+33 - (0)1 45 87 61 29

*email*

*anne.teissier@inserm.fr*

**Mr Thomas WATSON**

Cerebellum Navigation and Memory (CeZaMe)  
Neuroscience Paris Seine,  
Institut de Biologie Paris Seine (IBPS)  
75005, Paris,



+33 - (0)1 44 27 20 44

*email*

*thomas.watson@upmc.fr*