



# Frontiers in Biological Psychiatry

## Course

Academic year 2016-2017



# Frontiers in Biological Psychiatry

## Course

June 27<sup>th</sup> – July 1st, 2016

### *Course organizers*

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

**Stéphane JAMAIN**  
Groupe hospitalier Chenevier Mondor  
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**Marika NOSTEN-BERTRAND**  
Institut du Fer à Moulin  
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### *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 June 27th

- 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 - 11:30 **How biology can question psychiatric nosology** Marion LEBOYER  
(Hôpital Albert Chenevier, Fondamental Foundation)
- 11:30 – 12:30 Lunch**
- 12:30 – 13:00 Students personal presentations Part I (3 min each x 10)
- 14:00 - 17:00 **Tutorial 1 and Site visit** (2 groups)  
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)

### Tuesday June 28th

- 9:30 – 10:00 Students personal presentations, Part II (3 min each x 10)
- 10:00 – 11:30 **Primal threats: the neural circuitry of social and predator fear** Cornelius GROSS  
(EMBL, Monterotondo)
- 11:30 - 13:00 **How can animal models help to develop new treatments for psychiatric diseases?** Pier-Vincenzo PIAZZA  
(Neurocentre Magendie)
- 13:00 - 14:00 Lunch**
- 14:00 – 15:30 **The impact of trauma across generations: Epigenetic inheritance and potential mechanisms** Isabelle MANSUY  
(Brain Research Institute, Zurich)
- 15:30 – 17:00 **Tutorial 2**  
*Epigenetic modifications* Stéphane JAMAIN  
(Groupe Hospitalier Chenevier Mondor)  
and Lucile MARION-POLL (Institut Curie)
- 17:30 - 18:30 Welcome reception**

## Frontiers in Biological Psychiatry course

### Wednesday June 29th

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

9:30 – 11h30 **Tutorial 3 and site visit**

*Regions and networks in psychiatric disorders*

Josselin HOUENOU  
Samuel SARRAZIN  
(CEA and Inserm IRBM, Créteil)

11:30 - 12:30 **Lecture: Functional imaging**

Andreas MEYER-LINDENBERG  
(Central Institute of Mental Health, Mannheim)

**12:30 - 13:30 Lunch**

13h30 - 14h30 **Discussion**

with Andreas MEYER-LINDENBERG

14h30 - 16h30 **Tutorial 3 and site visit (cont'ed)**

*Small animals imaging*

Josselin HOUENOU  
Samuel SARRAZIN

### Thursday June 30th

9:00 - 10:30 **Treatable autoantibodies-mediated psychiatric disorders**

Jérôme HONNORAT  
(Hôpital Neurologique, CHU Lyon)

10:30 – 12:00 **Future developments: the contributions of iPS cells**

Guo-LI MING  
(Johns Hopkins University, Baltimore, USA)

**12:00 - 13:00 Lunch**

13:00 – 15:00 **Pharmacogenetics in psychiatry: where do we stand in 2016?**

Chin EAP  
(University of Lausanne)

15:00 – 17:00 **Tutorial 4**  
*Virtual Ball*

Laure RONDIREIG  
(Institut Biologie Paris-Seine, CNRS)

*Scoring animal behavior*

Philippe FAURE  
(Institut Biologie Paris-Seine, CNRS)

### Friday July 1st

9:00 -10:30 **Environment and psychiatric disorders:  
a focus on childhood trauma**

Bruno ETAIN  
(Hôpital Chenevier Mondor)

10h30- 12h00 **Students groups projects discussion and presentations**

**12:00 - 13:00 Lunch**

13:00 – 15:00 **Tutorial 5**

*- Connectomics and neuronal networks*

Patricia GASPAR  
(Institut du Fer à Moulin)  
and Mariano SOIZA-REILLY  
(Institut du Fer à Moulin)

## Frontiers in Biological Psychiatry course

### ADDRESS DETAILS

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#### Speakers

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