

## EURON WORKSHOP

# Drugs and the brain: an update in Psychopharmacology from experimental to clinic

APRIL  
15-20th 2012  
UNIVERSITY  
OF MINHO  
\* PORTUGAL \*

### Organization

European Graduate School  
of Neuroscience (Euron)

Maastricht University,  
Maastricht, The Netherlands

- \* Brian Leonard
- \* Harry Steinbusch
- \* Nicole Senden

University of Minho,  
Braga, Portugal

- \* Joana Palha
- \* Nuno Sousa

University of Minho  
School of Health Sciences



Maastricht University

## PRELIMINARY PROGRAM

SUNDAY APRIL 15<sup>TH</sup> // ARRIVAL AND REGISTRATION – BUFFET

20.00 Marina Bentivoglio  
*Key Lecture History of Neuroscience*

MONDAY APRIL 16<sup>TH</sup> // BASIC MECHANISMS OF ACTION OF  
PSYCHOTROPIC DRUGS: AN OVERVIEW

Chairman: Brian Leonard

9.00-9.45 Brian Leonard / Joana Palha  
*General Introduction*

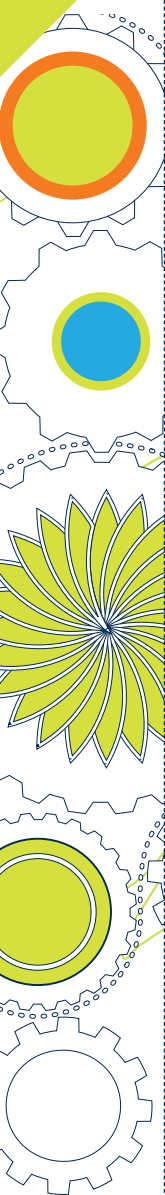
9.45-10.30 Charles Marsden  
*The neurotransmitter and receptor basis of drug  
discovery: new approaches and developments*

10.30-11.30 Coffee break and poster session 1  
(research projects PhD students)

11.30-12.15 Liesbeth Reneman (ECNP lecture)  
*Behavioural toxicity of psychotropic drugs and how they are  
investigated*

12.15-13.00 Jos Prickaerts  
*Problems and pitfalls in modelling psychiatric and  
neurological disorders*

13.00-14.00 Lunch



14.00-16.15 Interactive sessions (students will choose one of the workshops)

**Workshop 1:** "The psychotropic drugs of the future: based on old concepts or fully new?"

Moderators: Charles Marsden/Brian Leonard

**Workshop 2:** "Industry versus academia : drug versus disorder"

Moderators: Thomas Steckler/Jos Prickaerts

16.15-17.00 Presentation of the workshops

17.00-17.45 Thomas Steckler

*How are psychotropic drugs discovered and developed?  
The role of the pharmaceutical industry*

20.00 Dinner

## TUESDAY APRIL 17<sup>TH</sup> // CLINICAL PSYCHOPHARMACOLOGY: APPLICATION OF PSYCHOTROPIC DRUGS TO PSYCHIATRIC AND NEUROLOGICAL DISORDERS

Chairman: Charles Marsden

8.30-9.15 Gavin Reynolds  
*Psychotic disorders: psychopathology and drug treatment*

9.15-10.00 Brian Leonard  
*Affective disorders: psychopathology and drug treatment*

10.00-11.00 **Coffee Break and poster session 2**  
(research projects PhD students)

11.00-11.45 David Baldwin  
*Anxiety disorders: psychopathology and drug treatment*



11.45– 12.30 Brian Leonard  
*Introduction: preparation scientific debate/scientific proposal*

12.30-13.30 Lunch

13.30– 14.15 Nicol Ferrier  
*Bipolar disorders: psychopathology and drug treatment*

14.15– 16.30 Interactive sessions (students will choose one of the workshops)

**Workshop 1:** "How do mechanisms of antipsychotic activity relate to our understanding of the pathophysiology of schizophrenia?  
Moderators: Gavin Reynolds/Nicol Ferrier

**Workshop 2:** "Mood disorders-the end of the monoamine theory or can it be rejuvenated"  
Moderators: David Baldwin/Bill Deakin

16.30-17.30 Presentation of the workshops and closure of the day

20.00 Dinner

## WEDNESDAY APRIL 18<sup>TH</sup> // BASIC ASPECTS RELATED TO CLINICAL PSYCHOPHARMACOLOGY

Chairman: Nuno Sousa

9.00-9.45 Anne Lingford-Hughes  
*Neurobiology of addiction: focus on alcohol dependence*

9.45–10.30 Alexandra Sulcova  
*Cannabinoids*

10.30-11.00 Coffee Break



11.00-11.45 Joana Palha  
*Inflammation: how the periphery triggers the central nervous system*

11.45-13.00 Lunch

13.00-16.00 Interactive sessions

Group divides in two and switch during the afternoon to the laboratory program and the other half preparation for scientific proposal

Laboratory class: Introduction to behaviour rodent models of psychiatric disorders

17.30 Social event and dinner

## THURSDAY APRIL 19<sup>TH</sup> // SPECIAL TOPICS THAT LINK BASIC AND CLINICAL NEUROSCIENCE

Chairman: Harry Steinbusch

8.30-9.15 Paul Lucassen  
*Dementia and depression: mechanisms, psycho-pathology and drug treatment*

9.15-10.00 Carmen Sandi  
*Neural mechanisms translating stress effects on brain and behavior*

10.00-10.30 Coffee break

10.30-11.15 Onno Meijer  
*The HPA axis and psychiatric disease: drug targets old & new*

11.15-12.00 Ana João Rodrigues  
*Programming effects of prenatal exposure to glucocorticoids in adult seeking behaviour*

12.00-13.00 Lunch

13.00-14.15 Interactive sessions (students will choose one of the workshops)

**Workshop 1:** "Ethics in animal research"

Moderators: Margarida Correia-Neves/Joana Palha

**Workshop 2:** "Skills to write a good paper and a grant application"

Moderator: Brian Leonard/Harry Steinbusch

14.15-15.30 Interactive sessions (students will choose one of the workshops)

**Workshop 1:** "Ethics in animal research"

Moderators: Margarida Correia-Neves/Joana Palha

**Workshop 2:** "Skills to write a good paper and a grant application"

Moderator: Brian Leonard/Harry Steinbusch

15.30-18.30 Preparations for scientific debate

18.30-20.00 Scientific Debate (with drinks)

21.00 Dinner with music

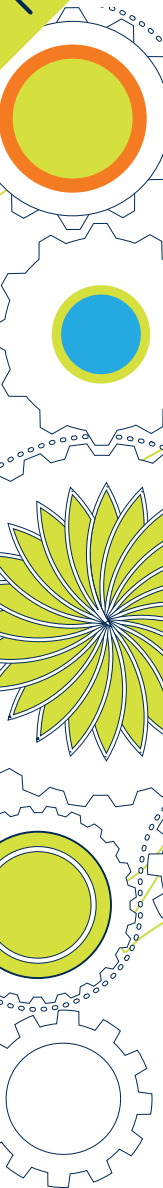


FRIDAY APRIL 20<sup>TH</sup> // INFLAMMATION, NEURODEGENERATION  
AND MENTAL HEALTH

Chairman: Joana Palha

- 8.30-10.30 Carmen Cavada  
*The present european legal frame of the use of animal models  
in research*
- 10.30-10.45 Coffee break
- 10.45-11.30 Bill Deakin  
*Translational to and fro in the pathogenesis of depression*
- 11.30-12.15 Nuno Sousa  
*Depression and neurogenesis*
- 12.15-13.00 Lunch
- 13.00-13.45 Harry Steinbusch  
*Morphological basis for inflammatory induced  
neurodegeneration in psychiatric diseases*
- 13.45-14.00 Brian Leonard  
*Concluding remarks*





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