

PREFACE

This 14th graduate Neuropsychopharmacology course, designed for PhD students and postdocs in the field of neurosciences, is organized by the Graduate School Neurosciences Amsterdam Rotterdam. The course addresses our current understanding of the pharmacology of CNS active drugs, the discovery of CNS drug targets as well as the development of innovative medicines and therapies, allowing students to become familiar with the fascinating field of neuropsychopharmacology. During the course, the major classes of pharmacotherapeutics for the clinical management of various neurological and psychiatric diseases and the pathological mechanisms of these brain disorders will be discussed.

Attendance of all lectures is mandatory and will be honoured with a certificate. Accreditation covers 40 hours in the graduate teaching programs on neuroscience. If you are not able to attend a specific activity, please notify the course coordinator dr. Micha Wilhelmus (m.wilhelmus@amsterdamumc.nl).

We hope that you will appreciate this course,

The organizing committee,

Dr. Micha M.M. Wilhelmus

Dr. Benjamin Drukarch

Prof.dr. Taco de Vries

Dr. Merel Rijnsburger

PROGRAM

Course on Neuropsychopharmacology September 11-15, 2023

Topics and places

- September 11 Basics of (neuropsychopharmacology)
Location: O2 building, Auditorium, De Boelelaan 1108,
Amsterdam
- September 12 Impulsivity, compulsivity & addiction
Location: O2 building, Auditorium, De Boelelaan 1108,
Amsterdam
- September 13 CNS drug development and clinical neuropsychopharmacology.
Location: O2 building, Auditorium, De Boelelaan 1108,
Amsterdam
- September 14 Basics of psychopharmacology and clinical
neuropsychopharmacology. Location: O2 building, Auditorium,
De Boelelaan 1108, Amsterdam
- September 15 Neuroinflammatory and neurodegenerative disorders.
Location: O2 building, Auditorium, De Boelelaan 1108,
Amsterdam

Basics of (neuropsychopharmacology)

Coordinator: Dr. Micha M.M. Wilhelmus

Monday September 11, VU Amsterdam.

Location: auditorium O2 building

9.00 – 10.00h	Opening and introduction. Dr. Micha Wilhelmus, AUMC, Amsterdam
10.00 – 10.30h	Coffee/tea break
10.30 – 12.00h	Pharmacodynamics: a recap. Dr. Benjamin Drukarch, AUMC, Amsterdam
12.00 – 13.00h	Lunch break
13.00 – 14.30h	Pharmacokinetics: a recap. Dr. Benjamin Drukarch, AUMC, Amsterdam
14.30 – 15.00h	Coffee/tea break
15.00 – 16.00h	Therapeutic proteins: the way to go for CNS therapeutics? Dr. Benjamin Drukarch, AUMC, Amsterdam

Impulsivity, compulsivity & addiction

Coordinator: Prof.dr. T.J. de Vries

Tuesday September 12, VU Amsterdam

Location: auditorium O2 building

10.00 – 10.15	Coffee/Tea and Welcome Taco de Vries, Amsterdam UMC, location VUmc
10.15 – 11.00	Compulsivity Ingo Willuhn, UvA/AMC, Amsterdam
11.00 – 11.45	Addiction: a treatable brain disease. Anneke Goudriaan, Amsterdam UMC, location AMC
11.45 – 12.30	Psychopharmacology of neurodevelopmental disorders. Lisa Geertjens, Amsterdam UMC, location AMC
12.30 – 13.15	Lunch break
13.15 – 14.00	Psychopharmacology of ADHD. Tommy Pattij, Amsterdam UMC, location VUmc
14.00 – 14.45	Use of DREADDS to identify and manipulate addiction circuitry. Nathan Marchant, Amsterdam UMC, location VUmc

CNS drug development and clinical neuropsychopharmacology

Coordinator: Dr. Micha M.M. Wilhelmus

Wednesday September 13

Location: auditorium O2 building

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| 9.30 – 10.45 h | The basis of ethical evaluation of clinical drug trials. Dr. Benjamin Drukarch, AUMC, Amsterdam |
| 10.45 – 11.00 h | Coffee/tea break |
| 11:00 – 12:00 h | Pharmacogenetics in psychiatry. Dr. Pierre Bet, Dept of Clinical Pharmacology & Pharmacy, AUMC, Amsterdam |
| 12.00 – 13.30h | Lunch break |
| 13.30 – 14.30 h | Antidepressants: friend or foe? Dr. Christiaan Vinkers, AUMC, Amsterdam. |
| 14.30 – 15.15 h | How drug enter the brain. Dr. Micha Wilhelmus, AUMC, Amsterdam |
| 15.15 – 15.30 h | Coffee/tea break |
| 15.30 – 16.30 h | Translating preclinical data to human drug trial. Dr. Micha Wilhelmus, AUMC, Amsterdam |

Psychopharmacology

Coordinator: Dr. Micha M.M. Wilhelmus

Thursday September 14, VU Amsterdam

Location: auditorium O2 building

10.00 – 10.45h	Neuropsychopharmacology. An overview part I. Dr. Micha Wilhelmus, AUMC, Amsterdam
10.45 – 11.00h	Coffee/tea break
11.00 – 12.00h	Neuropsychopharmacology. An overview part II. Dr. Micha Wilhelmus, AUMC, Amsterdam
12.00 – 13.30h	Lunch break
13.30 – 15.30h	Clinical Neuropsychopharmacology at CHDR. Dr. Jeroen v. Smeden
15.30 – 15.45h	Coffee/tea break
15.45 – 16.30h	Clinical Neuropsychopharmacology at CHDR. Dr. M. Wilhelmus

Neuroinflammatory and neurodegenerative disorders

Coordinators: Dr. M. Rijnsburger | Drs. C. Rodriguez-Modega

Friday September 15, VU Amsterdam

Location: auditorium O2 building

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| 10.30 – 11.30h | Multiple sclerosis pathology
Dr. Geert Schenk, AUMC, Amsterdam |
| 11.30 – 12.30h | Cholesterol-targeting drugs for the treatment of Alzheimer's
Disease Dr. Femke Feringa, AUMC, Amsterdam |
| 12.30 – 13.00h | Lunch break |
| 13.00 – 14.00h | PET imaging
Dr. Wissam Beiano, AUMC, Amsterdam |
| 14.00 – 14.45h | MS pathology and microglia heterogeneity
Drs. Carla Rodriguez-Mogeda, AUMC, Amsterdam |
| 14.45 – 15.00h | Coffee/Tea break |
| 15.00 – 16.00h | Keynote: New chemical biology tools to study GPCRs
Prof. dr. Rob Leurs, VU, Amsterdam |