

**ANNEX II**

**MHeNs / EURON PhD EDUCATIONAL PROGRAM**

# COURSE PROGRAM MHeNs / EURON 2019

| Date               | Course/workshop/event  | Organizer(s)  | Description   | Faculty staff MHeNs/EURON and partners (actively) involved   | Number of participants | ECTS / duration     |
|--------------------|--|---|---|--|------------------------|---------------------|
| 14 January 2019    | MHeNs Lecture  | D. Linden, M. Moers   | Probing neural development and neurological diseases with pluripotent stem cells. Prof. M. Li, Cardiff University.  |  | 55                     |                     |
| 13 March 2019      | MHeNs Lecture  | D. Linden, M. Moers   | Responsibility Care and Neuroscience. Prof D. Healy, Wales United Kingdom.  |  | 84                     |                     |
| 1 - 4 April 2019   | Course "From Human Neuroanatomy and its clinical application"  | A. Jahanshahi, G. Kenis, B. Kramer, J. Mey, P. Bisschoff, N. Senden, D. Kentgens              | EURON/MHeNs annual PhD course. The course is intended for PhD students in the field of neurosciences, neuropathology, psychology and psychiatry. The course introduces the human neuroanatomy by lectures and hands on practical light microscopy and dissection of a human brain under supervision. Imaging techniques like MRI and PET will be introduced including site visits to the state of the art facilities. The application of these techniques to clinical diagnostics will be presented. The anatomical changes in selected diseases will be shown with hands on light microscopy under supervision. The correlation of human anatomy in health and disease to animal models will be discussed. In addition, the course includes an interactive seminar. The participants can choose a seminar according to their interests either on a disease, MRI techniques or model systems.   | MHeNs staff involved: L. Ackermans, W. Backes, M. Bauwens, G. Hoogland, A. Jahanshahi, G. Kenis, B. Kramer, J. Mey, R. van Oostenbrugge, N. Senden, J. Vermeulen, J. Prickaerts, N. Leibold / Other staff: A. Roebroek (FPN, UM), A. Herrler (Dept. Anatomy, UM); M. Tijssen (Radiology) B. Bröne (EURON, Hasselt University), A. Jankovski (EURON, UC Louvain), Invited key lecture: Dr. W. Van de Berg, Amsterdam UC | 16                     | 1,5 ECTS            |
| 8 April 2019       | Third Centre for Integrative Neuroscience (CIN) meeting  | B. Rutten, M. Moers   | Pharmacological models of memory impairment: Animal studies and Human studies. (J. Prickaerts and A. Blokland) Project presentation: Mapping cortico-hippocampal synchronization and cognition using ECoG in epilepsy patients (H. Bernhard).   | MHeNs: B. Rutten, J. Prickaerts, V. Kranen-van Mastenbroek en R. Rouhl<br>FPN: A. Sack, A. Blokland, M. Roberts, P. de Weerd   | 52                     |                     |
| 16 April 2019      | 13th MHeNS Topics in Translational Neuroscience Workshop: "Pain and Comorbidities"   | R. van Reij, B. Joosten, N. van den Hoogen, N. Senden   | Pain is a severe condition occurring in a wide variety of disorders, both physical and psychological. The neuropathology underlying these comorbidities have important biomarkers, neurotransmitters, brain regions, and genetic background in common. The connection between the different comorbidities of pain provides important insights for other research fields like anxiety, depression, stress and cognition. This workshop takes a closer look at pain and its comorbidities in three distinct settings: experimental research, clinical practice, and genetic aspects through lectures and case studies. The case studies will further integrate pain and comorbidities (e.g. How do we measure average pain last week in patients with Alzheimers disease).  | MHeNs: R. van Reij, B. Joosten, N. Van den Hoogen, N. Senden, C. Vossen, C. Leue, B. Rutten  | 33                     | 0,5 ECTS            |
| 15 April 2019      | Pizzameeting   | PhD Committee:<br>L. Bakker, S. Hendriks, M. Daemen, N. van de Burgt D. Paes, D. van Kruining | MHeNs PhD Student Meeting. Transferable Research Skills by D. Baltag (Political Science, Faculty of Arts and Social Sciences, International and European Law, Faculty of Law).  |  | 28                     |                     |
| 25 & 26 April 2019 | ESM Course - Experience Sampling Method in Psychopathology - <a href="https://mhens.mumc.maastrichtuniversity.nl/esm-course-1">https://mhens.mumc.maastrichtuniversity.nl/esm-course-1</a> | N. Volbragt, K. Borkelmans  | This 2day course aims to give you a full overview of all aspects related to the use of the Experience Sampling Method in psychopathology: background, techniques, questionnaires, statistics and implementation of your study. The study of persons in the context of normal daily life may provide a powerful and necessary addition to more conventional and cross-sectional research strategies in psychopathology. The Experience Sampling Method (ESM), also known as Ecological Momentary Assessments (EMA), is a mobile assessment approach designed to measure thoughts, mood, symptoms, and contextual information in the flow of daily life. ESM thus allows to capture the film rather than a snapshot of daily life reality of patients or research subjects. ESM has been proven to be feasible in patients with a wide range of psychopathology, including schizophrenia, major depression, bipolar disorder, eating disorder, and personality disorders. The availability of mobile technology as the PsyMate™ allows easy implementation of ESM in your practice. | MHeNs staff: Ph.Delespaul, N. Volbragt, K. Borkelmans, W. Viechtbauer, S. Verhagen. In addition: C. Simons (GGZE) and N. Jacobs (Open University)  | 11                     | 2 full days meeting |

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| 6 May 2019             | MHeNs Lecture  | D. Linden, M. Moers   | From finding genes to understanding biological mechanisms in neurodevelopmental psychiatric disorders. Prof. B. Franke, Radboud University Nijmegen.  |  | 45                     |   |
| 30 June - 5 July 2019  | Summer Course on Fear, Anxiety, Obsessions & Trauma  | Universities of Maastricht and Florence / K. Schruers, L. Goossens, C. Forzi  | This course is part of the International Master of Affective Neuroscience, a postgraduate programme by the universities of Maastricht and Florence, a combination of residential courses and distance teaching. The programme offers a scientific training in the subspecialty of affective disorders. Taught by leading scientists, the programme deals with the latest developments in the field. It is a complement for professional training in psychiatry, clinical psychology and neuroscience. The course can be taken as a single course in the Summer School on Affective Neuroscience, leading to a certificate, that includes this course and the Summer Course on Mood, Agression & Attraction. More information: <a href="http://affect-neuroscience.org">http://affect-neuroscience.org</a> .   | MHeNs staff: D. Linden, K. Schruers, L. Goossens. A. Roefs (FPN) Other partners, see <a href="https://www.affect-neuroscience.org/">https://www.affect-neuroscience.org/</a>   | 15                     | 4 ECTS (summer course only)   |
| 30 July 2019           | Pizzameeting   | PhD Committee   | MHeNs PhD student meeting. Topic: Networking (O. Reneerkens, Staff Career Center, UM).  |  | 24                     |   |
| 2 September 2019       | MHeNs Lecture  | D. Linden, M. Moers   | Migraine: from genes to models and mechanisms. Prof. Dr. A. M.J.M. van den Maagdenberg, Leids Universitair Medisch Centrum.   |  | 331                    |   |
| 23 & 24 September 2019 | 21th EURON PhD days: Joint PhD student meeting with the Life Science Days of University of Luxembourg and EURON  | University of Luxembourg/ Maastricht University / S. Haan, G. Kenis, P. Bisschoff, N. Senden, D. Kentgens           | The annual EURON PhD days is a network event of all EURON partners. The PhD students get the opportunity to present their research via oral and poster presentations and the EURON scientists will give short oral presentations. The themes of the sessions in 2019: 1) Approaches for (multi-omics) big data analysis; 2) How does my research leads to treatments in patients? Invited Key Note lecture "Deep Brain Stimulation in Movement Disorders" - Dr. Ali Jahanshahi, UM.   | MHeNs staff involved: G. Kenis, N. Senden, E. Pishva, A. Blokland, A. Jahanshahi, Other EURON partners: Université de Luxembourg: P. Heuschling.   | 100                    | 0,5 ECTS for attendance + 0.5 ECTS extra when having a poster or oral presentation        |
| 1 - 5 October 2019     | EURON Workshop EURON WORKSHOP Drugs and the Brain: from Laboratory to Clinic   | University of Crete, Heraklion / Maastricht University - A. Blokland, G. Kenis, J. Prickaerts, N. Senden, K. Themos | In this EURON workshop different topics in Psychopharmacology will be presented. The topics for this event are: Neurodegeneration, Neurodevelopment, Brain-Gut Axis, Illicit Drugs and Mood.<br>The aim of this workshop is to give an up-to-date overview of the latest developments in these different research fields. Students will get a better understanding how drugs work in the brain and how drugs can be developed for treatment in various brain diseases. The different thematic topics will be accompanied by interactive workshops. In these workshops small groups will discuss a specific topic that relates to the theme on a specific day. This will stimulate active participation in discussions, and is further encouraged by educationally well trained experts, coming from academia and industry. Participants also have the opportunity to present their own research in poster and elevator pitch sessions. One day will be organized in collaboration with the Hellenic Society for Neuroscience. | MHeNs: J. Prickaerts, N. Senden, G. Kenis FPN: A. Blokland, W. Riedel, K. Kuypers. Other staff: Prof. B. Leonard (Galway, Ireland), Prof. B. Hanseeuw (Brussels, Belgium), Dr. T. Vanmierlo (Hasselt, Belgium), Dr. J. Olivier (Groningen, The Netherlands), Dr. D. Erritzoe (London, United Kingdom), B. Biemans (Basel, Switzerland), J. Bothmer (Aachen, Germany), Prof. D. Fuchs (Innsbruck, Austria), M. Kas (Groningen, Netherlands), T. Palenicek (Prague, Czech Republic), K. Themos (Heraklion, Crete), Dr. G. Clarke (Cork, Ireland), Dr. N. Schneider (Lausanne, Switzerland) | 27                     | 2 ECTS  |
| 14 October 2019        | Pizzameeting   | PhD Committee   | MHeNs PhD Student Meeting. Mindfulness by Martin van Boxtel.  | MHeNs staff invited: M. van Boxtel   | 24                     |   |
| 23 - 25 October 2019   | Introduction to R Course - <a href="http://www.wvbauer.com/course_r">http://www.wvbauer.com/course_r</a> <a href="https://www.maastrichtuniversity.nl/education/introduction-r">https://www.maastrichtuniversity.nl/education/introduction-r</a> | W. Viechtbauer  | Graduate level course on the statistical programming language R. Topics covered include: History of R, basic data structures and functions for computations and data manipulation, importing/exporting data, inspecting data, obtaining summary statistics, graphing/plotting data, statistical methods for continuous, categorical, and time-to-event data, strategies for finding and working with add-on packages, programming structures, writing functions, writing documents using Rmarkdown.   | MHeNs: W. Viechtbauer.   | 25                     | 1 ECTS  |
| 30 October 2019        | MHeNs 12th Annual Research Day "New Technologies in Neuroscience and Mental Health"  | D. Linden, M. Moers, P.-J. Visser, C. Simons, N. Daniels, G. Hoogland, M. Damas, H. Park, A. Leentjens              | Annual meeting with keynote speakers from MHeNs; PhD student and post doc presentations in the form of elevator pitches and poster presentations, debates.  | MHeNs staff : D. Linden, T. van den Crommenacker, M. van Boxtel, R. Rouhl (PhD Student), M. Melendez (PhD Student), O. Schijns, J. Frimat, A. Wolters (PhD Student), J. Habets(PhD Student), P. Kubben, A. Leentjens.  | 210                    | Poster presentation: 0.5 ECTS plus additional 0.25 credit for elevator pitch presentation |

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| 4 November 2019     | MHeNs Lecture  | D. Linden, M. Moers                                       | Neuromodulation for tinnitus: from bench to bed. M. Janssen (MHeNs, Dept. Neurology, MUMC) .  |   | 42                     |                 |
| 4 - 6 November 2019 | ESM Data Analysis Course - <a href="http://www.wvbauer.com/course_esm">http://www.wvbauer.com/course_esm</a> | W. Viechtbauer  | Graduate level course on methods for analyzing intensive longitudinal data as collected in studies using experience sampling methodology. Topics covered include: A brief introduction to ESM and related methods, data checking/preparation/cleaning, mixed-effects models for analyzing multilevel data (random intercepts and slopes models), models allowing for remaining correlation in the residuals (serial/autocorrelation), models with more than two levels, checking model assumptions, model selection/comparison/testing, models for other types of outcomes (e.g., dichotomous, multinomial, ordinal), psychometrics (reliability, validity, factor analysis with multilevel data), power analysis, and various advanced topics. | MHeNs: W. Viechtbauer   | 30                     | 1 ECTS          |
| 25 November 2019    | Fourth Centre for Integrative Neuroscience (CIN) meeting   | In collaboration with SBE/ MHeNs/FPN. B. Rutten, M. Moers | Presentations: "Prediction models of treatment response" (F. Peeters) "Molecular, cellular and electrophysiological effects of TMS in living human neurons" (A. Thomson) "Hungry for reward: using evaluative conditioning to repair food and taste reward processing in the anorectic brain" (A. Jansen).  | MHeNs: J. Prickaerts, B. Rutten, G. Kenis, PhD student A. Thomson.<br>FPN: A. Blokland, A. Sambeth, A. Sack, T. de Graaf, A. Riedl. SBE: H. Jin and T. Meissner, S. Müller. | 47                     |                 |
| 2 December 2019     | MHeNs Lecture  | D. Linden, M. Moers                                       | Cortical Reorganization after Stroke: Novel Insights from Neuroimaging and Non-Invasive Brain Stimulation. Prof. Dr. C. Grefkes, Department Neuromodulation und Neurorehabilitation, Uniklinik Köln, Germany.   |   | 72                     |                 |
| 13 December 2019    | Mingle Days PhD students   | PhD Committee   | Research Impact - Topics: D. Linden (Introduction); M. Prevoo, Library UM (Research Impact) and Y. Dassen, (Valorization).  | MHeNs staff invited: D. Linden  | 32                     |                 |