The 2nd International Conference on Microbiota Gut Brain Axis

Mind Mood Microbes

17-18 January 2019
Amsterdam
The Netherlands

Call for poster abstracts

www.mindmoodmicrobes.org
Increasing evidence from mostly preclinical studies indicates that the gut microbiome modulates brain development and function across the lifespan. This pinpoints the microbiota-gut-brain axis as a potential target for influencing mood and behaviour, such as anxiety and depression, as well as preventing or treating brain-related diseases, including Parkinson’s disease, Alzheimer’s disease, bipolar disorders and autism.

Currently, one of the biggest challenges is the translation of these insights into the clinical context. The first edition of MIND, MOOD & MICROBES in 2016 highlighted some challenges, such as limited suitable and clinically-relevant biomarkers, heterogeneous patient populations, and methodological discrepancies. A further complicating factor is that the fields of expertise involved are not closely related; microbial, neurological and psychiatric experts use different types of jargon, definitions and methodologies. To avoid overpromising of potential deliverables of this fascinating research field, it is essential that an interdisciplinary approach is stimulated.

MIND, MOOD & MICROBES, the 2nd International Conference on Microbiota-Gut-Brain Axis, will bring together academics, healthcare professionals, and industry partners from diverse and complimentary fields of expertise to accelerate the translation of research breakthroughs into professional and clinical practice.

**SCIENTIFIC ADVISORY COMMITTEE**

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  Baylor College of Medicine, USA
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  University Paris Est Créteil, France
- Dr Filip Scheperjans  
  University of Helsinki, Finland
- Prof. Iris Sommer  
  University Medical Center Groningen, the Netherlands

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  University of Pennsylvania, USA
- Drs Elsbeth Pekelharing  
  Winclove Probiotics, the Netherlands
- Dr Laura Steenbergen  
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**INITIATING PARTNER**

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## PROGRAMME AT A GLANCE

### Thursday 17 January 2019

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<th>Time</th>
<th>Event</th>
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<tr>
<td>10:00 – 10:10</td>
<td>Opening of MIND, MOOD &amp; MICROBES</td>
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<tr>
<td>10:10 – 11:00</td>
<td>Keynote presentations</td>
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| 11:00 – 12:30 | **SESSION 1**  
The Microbiota-Gut-Brain Axis and Neurodevelopment                |
| 12:30 – 13:30 | Lunch break & poster viewing                                          |
| 13:30 – 15:20 | **SESSION 2**  
The Microbiota-Gut-Brain Axis: a metabolic dialogue              |
| 15:20 – 15:45 | Networking break & poster viewing                                     |
| 15:45 – 16:15 | **SESSION 3**  
Speed presentations (posters)                                        |
| 16:15 – 17:30 | **SESSION 4**  
Interdisciplinary Innovation Jam                                      |
| 17:30 – 22:00 | Canal tour and conference dinner                                      |

### Friday 18 January 2019

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| 08:45 – 10:30 | **SESSION 5**  
The Microbiota-Gut-Brain Axis in neurological and neuropsychiatric disorders |
| 10:30 – 11:00 | Networking break & poster viewing                                     |
| 11:00 – 12:30 | **SESSION 5**  
Continue                                                            |
| 12:30 – 13:30 | Lunch break & poster viewing                                          |
| 13:30 – 15:00 | **SESSION 6**  
Neurodegenerative diseases – Parkinson and Alzheimer                  |
| 15:00 – 15:30 | Networking break & poster viewing                                     |
| 15:30 – 16:15 | **WRAP-UP SESSION**  
Top five lessons learned                                               |
| 16:15       | Closing of MIND, MOOD & MICROBES                                      |

## ACCREDITATION

The European Accreditation Committee in CNS (EACIC) has granted 15 CME credits to this Forum. To obtain your CME credits, complete the evaluation form at www.eacic.eu. The deadline to complete the evaluation form is **18 March 2019**.
CONFERENCE PROGRAMME

10:00 Opening of MIND, MOOD & MICROBES
Prof. John F. Cryan, Department of Anatomy and Neuroscience, University College Cork, Ireland

KEYNOTE PRESENTATIONS

10:10 Microbes and Mood – emerging roles for the microbiome in mental health
Prof. Jane Foster, Department of Psychiatry and Behavioural Neurosciences, McMaster University, Canada

10:35 A neurologist’s perspective on the microbiome and gut–brain axis
Dr Filip Scheperjans, Department of Neurology, Helsinki University Hospital, Finland

SESSION 1
THE MICROBIOTA-GUT-BRAIN AXIS AND NEURODEVELOPMENT

CHAIR: Dr Mauro Costa-Mattioli, Baylor College of Medicine, USA

11:00 Chair’s introduction

11:05 Stress, bacteria, and early development
Prof. Carolina de Weerth, Behavioural Science Institute, Radboud University, The Netherlands

11:25 Transmission of stress signals: neurodevelopmental programming through the maternal microbiome
Dr Eldin Jasarevic, Department of Biomedical Sciences, University of Pennsylvania, USA

11:45 Bacterial peptidoglycans during pregnancy and risk for neurodevelopmental disorders
Dr Rochellys Diaz Heijtz, Department of Neuroscience, Karolinska Institutet, Sweden

12:05 Microbiota and microglia: an inequality of the sexes
Dr Sonia Garel, Brain Development and Plasticity, IBENS, France

12:25 Chair’s summary

12:30 Lunch break and poster viewing
SESSION 2
THE MICROBIOTA-GUT-BRAIN AXIS: A METABOLIC DIALOGUE

CHAIR: Prof. Michiel Kleerebezem, Wageningen University & Research, the Netherlands

13:30 Chair’s introduction

Dr Sahar El Aidy, Biomolecular Sciences and Biotechnology Institute, University of Groningen, the Netherlands

13:55 The gut–brain axis: a metabolite super highway
Dr Jonathan Swann, Division of Integrative Systems Medicine and Digestive Diseases, Imperial College London, UK

14:15 Children with autism and their typically-developing siblings differ in exact sequence variants and predicted functions of stool-associated microbes
Dr Maude David, Department of Microbiology & Pharmaceutical Sciences, Oregon State University, USA

14:35 Targeting the gut microbiome as a translational research strategy to reduce pathological opiate use disorder
Dr Drew Kiraly, Icahn School of Medicine at Mount Sinai, USA

14:55 Food for better gut and mental health – lower your stress by better gut feeling?
Prof. Robert-Jan Brummer, School of Medical Sciences, Örebro University, Sweden

15:15 Chair’s summary

15:20 Networking break and poster viewing

SESSION 3
SPEED PRESENTATIONS

15:45 – 16:15 A number of posters will be selected for short presentations.

SESSION 4
INTERDISCIPLINARY INNOVATION JAM

16:15 – 17:30 Research in the gut-brain field is increasing rapidly, however, clinical implementation is still in its infancy. MIND, MOOD & MICROBES brings together a diverse expert community united by the common interest for optimal (patient) care. This part of the programme enables you to meet new people within this community in small groups and share ideas. The use of new media enables us to utilise the collective intelligence and define next steps in accelerating the translation of available (and upcoming) research into improving mental health for those seeking solutions.

17:30 – 22:00 SOCIAL PROGRAMME
Canal tour (Amsterdam Light Festival) and conference dinner
SESSION 5
THE MICROBIOTA-GUT-BRAIN AXIS IN NEUROLOGICAL AND NEUROPSYCHIATRIC DISORDERS

CHAIR: Prof. Marion Leboyer, University Paris Est Créteil, France
Prof. Iris Sommer, University Medical Center Groningen, the Netherlands

08:45 Chair’s introduction

08:50 How the gut feeds the brain immune system
Prof. Marco Prinz, Institute of Neuropathology, University Medical Centre Freiburg, Germany

09:10 Social Microbes – microbiome as a regulator of the social brain & behaviour
Dr Eoin Sherwin, APC Microbiome Institute, University College Cork, Ireland

09:30 Gut microbes and vulnerability to stress-related disorders
Dr Marie-Claude Audet, School of Nutrition Sciences, University of Ottawa, Canada

09:50 Understanding gut feelings: an integrated perspective on the effects of probiotics on cognitive and affective processes and mental health
Dr Laura Steenbergen, Cognitive Psychology Unit & Leiden Institute for Brain and Cognition, Leiden University, the Netherlands

10:10 Stress, the gut-brain axis and the role of pro- and antibiotics
Prof. Paul Enck, Department of Psychosomatic Medicine and Psychotherapy, University Hospital Tübingen, Germany

10:30 Networking break and poster viewing

11:00 Bipolar disorder and the microbiota-gut-brain axis
Dr Robert H. Yolken, Stanley Neurovirology Laboratory, Johns Hopkins School of Medicine, USA

11:20 Effect of probiotics and prebiotics on psychological outcomes in patients with major depressive disorder: a randomized clinical trial
Dr Kourosh Djafarian, School of Nutritional Sciences and Dietetic, Tehran University of Medical Sciences, Iran

11:40 Microbial modulation of seizure susceptibility in refractory epilepsy
Dr Elaine Hsiao, Department of Integrative Biology & Physiology, University of California, Los Angeles (UCLA), USA

12:00 The bi-directional communication between gut and brain after stroke
Dr Corinne Benakis, Institute for Stroke and Dementia Research, Ludwig-Maximilians-Universität München, Germany

12:20 Chair’s summary

12:30 Lunch break and poster viewing
### SESSION 6

**THE MICROBIOTA-GUT-BRAIN AXIS AND NEURODEGENERATIVE DISEASES – FOCUS ON PARKINSON’S DISEASE AND ALZHEIMER’S DISEASE**

**CHAIR:** Dr Filip Scheperjans, Department of Neurology, Helsinki University Hospital, Finland

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<tbody>
<tr>
<td>13:30</td>
<td>Chair’s introduction</td>
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<tr>
<td>13:35</td>
<td><strong>No guts no glory: novel treatments strategies in neurodegenerative diseases</strong></td>
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<td>Prof. Aletta Kraneveld, <em>Institute for Pharmaceutical Sciences, Utrecht University, the Netherlands</em></td>
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<td>13:55</td>
<td><strong>Exploring functional consequences of host–microbiome interactions in Parkinson's disease</strong></td>
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<td>Dr Timothy R. Sampson, <em>Division of Biology, California Institute of Technology, USA</em></td>
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<td>14:15</td>
<td><strong>Can lingonberries make us smarter? A targeted gut microbiota modulation for prevention of neuroinflammation and Alzheimer’s disease</strong></td>
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<td>Dr Frida Hållenius, <em>Department of Food Technology, Engineering and Nutrition, Lund University, Sweden</em></td>
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<td>14:35</td>
<td><strong>The role of the microbiota in neurodegeneration and the prospects for gene therapy</strong></td>
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<td>Prof. Robert P. Friedland, <em>Department of Neurology, University of Louisville, USA</em></td>
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<tr>
<td>14:55</td>
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| 15:30 - 18:15 | **WRAP-UP**  
**TOP FIVE ANSWERS LEARNED – WHERE ARE WE GOING?**                                      |
| 18:15    | Closing of MIND, MOOD & MICROBES                                                           |

### THE SCIENCE OF GUT FEELINGS: MIND, MOOD & MICROBES

**PUBLIC EVENT**

*MIND, MOOD & MICROBES* will host a public event to raise awareness around the microbiota-gut-brain axis in mental health. This event is aimed to give the general public an opportunity to take a peek into today’s science around this topic. The programme will include talks of experts and a panel discussion.

**WEDNESDAY 16 JANUARY 19:30 - 21:00**

The public event will be held in Artis Royal Zoo, Amsterdam, the Netherlands. Registration for this event is separated from the scientific conference.
**WEBSITE**

The latest details of **MIND, MOOD & MICROBES** can be found at the conference website: www.MindMoodMicrobes.org

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**WHO SHOULD ATTEND**

The conference is designed for academics, healthcare professionals and health-related industries.

**HOW TO REGISTER AND BOOK A HOTEL ROOM**

For all relevant information on registration fees, online registration and hotel accommodation, please go to the conference website: www.MindMoodMicrobes.org

**VENUE**

**MIND, MOOD & MICROBES** will be held at the KIT Royal Tropical Institute in Amsterdam, the Netherlands. The KIT Royal Tropical Institute building, which dates from 1926, has been one of Amsterdam's architectural landmarks. The building stands out with its elaborate neo-Renaissance style and numerous embellishments that are reminiscent of different cultures around the world. The KIT Royal Tropical Institute is an independent knowledge centre specialising in health, sustainable economics & social development, culture and education & information. During **MIND, MOOD & MICROBES**, the imposing octagonal Marble Hall will be used for coffee breaks, lunches, drinks and poster presentations.

**CALL FOR POSTER ABSTRACTS**

Interested participants, particularly students, are strongly encouraged to submit poster abstracts by no later than 15 November 2018. A number of posters will be selected for short presentations (‘speed presentations’). For more information, visit the conference website: www.MindMoodMicrobes.org

**BUSINESS OPPORTUNITIES**

**MIND, MOOD & MICROBES** offers various business opportunities, including company stand, company brochure inserted in the conference bags, and advertisement in the book of abstracts. For all information, visit the conference website: www.MindMoodMicrobes.org

**LANGUAGE**

English will be the official language at **MIND, MOOD & MICROBES**.

*It may be necessary for reasons beyond the control of the organisers to alter the content and timing of the programme.*

**SECRETARIAT**

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