THE 1ST INTERNATIONAL CONFERENCE ON MICROBIOTA-GUT-BRAIN AXIS

MIND, MOOD & MICROBES

1-2 DECEMBER 2016
AMSTERDAM
THE NETHERLANDS

WWW.MINDMOODMICROBES.ORG

CALL FOR POSTER ABSTRACTS
MIND, MOOD & MICROBES

The ability of the gut microbiota to communicate with the brain is emerging as an exciting concept in health and disease. Mounting evidence, mostly from rodent studies, suggests that gut microbes help shape normal neural development, brain biochemistry, and behaviour.

Bridging the gap between animal studies and application for treatment in humans will be the next big challenge. There are still many mysteries when it comes to understanding how the microbiome might affect the brain. If research is able to solve even a fraction of them, the microbiota-brain axis could be a powerful target for influencing mood and behaviour, for example in anxiety and depression, as well as preventing or treating brain-related diseases, including (potentially) Parkinson’s disease, Alzheimer’s disease, schizophrenia and autism.

MIND, MOOD & MICROBES – the 1st International Conference on Microbiota-Gut-Brain Axis – is focused on breakthroughs in fundamental research and dissemination of fundamental research towards clinical applications. The conference is designed for academia, health professionals and health-related industries.

ADVISORY COMMITTEE

Prof.dr. John F. Cryan  University College Cork, Ireland
Prof.dr. Jane Foster  McMaster University, Canada
Dr. Rochellys Diaz Heijtz  Karolinska Institutet, Sweden
Dr. Saskia van Hemert  Winclove, the Netherlands
Dr. Elaine Hsiao  University of California, Los Angeles, USA
Prof.dr. Marion Leboyer  University Paris Est Créteil, France
Prof.dr. Emeran Mayer  University of California, Los Angeles, USA
Prof.dr. Iris Sommer  University Medical Center Utrecht, the Netherlands
Dr. Laura Steenbergen  Leiden University, the Netherlands

INITIATING PARTNER

WINCLOVE PROBIOTICS

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## PROGRAMME AT A GLANCE

### THURSDAY 1 DECEMBER 2016

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| 09:35 – 10:45 | SESSION 1  
Basic and mechanistic research on the gut-brain axis                |
| 10:45 – 11:15 | Networking break & poster viewing                                        |
| 11:15 – 12:45 | SESSION 1 continued                                                      |
| 12:45 – 13:45 | Lunch break & poster viewing                                             |
| 13:45 – 15:30 | SESSION 2  
Applied research in the field of the gut-brain axis                  |
| 15:30 – 16:00 | Networking break & poster viewing                                        |
| 16:00 – 17:05 | SESSION 2 continued                                                      |
| 17:05 – 17:35 | SESSION 3  
Speed presentations by selected poster presenters                     |
| 17:35 – 21:30 | SOCIAL EVENT  
Visit to Micropia, followed by conference dinner                      |

### FRIDAY 2 DECEMBER 2016

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| 08:45 – 10:30 | SESSION 4  
The gut-brain axis: targeted interventions as novel therapeutic strategies |
| 10:30 – 11:00 | Networking break & poster viewing                                        |
| 11:00 – 11:50 | SESSION 4 continued                                                      |
| 11:50 – 13:30 | SESSION 5  
Looking for common ground between science and clinical practice  
Working Sessions                                               |
| 13:30 – 13:45 | CLOSING SESSION  
Conclusions and future implications                                    |
| 13:45       | Closing of MIND, MOOD & MICROBES                                        |
CONFERENCE PROGRAMME

THURSDAY 1 DECEMBER 2016

08:30  Opening of MIND, MOOD & MICROBES

KEYNOTE PRESENTATIONS

08:45  Shared mechanisms in brain disorders
       Prof.dr. Iris Sommer, Brain Center Rudolf Magnus, University Medical Center Utrecht, the Netherlands

09:10  A gut feeling about the brain: microbes as key regulators of neurodevelopment and behaviour across the lifespan
       Prof.dr. John F. Cryan, Department of Anatomy and Neuroscience, University College Cork, UK

SESSION 1: BASIC AND MECHANISTIC RESEARCH ON THE GUT-BRAIN AXIS

Chair:  Prof.dr. Jane Foster, Department of Psychiatry and Behavioural Neurosciences, McMaster University, Canada

09:35  Gut feelings; molecular clues to a gut-brain axis
       Prof.dr. Wouter de Jonge, Tytgat Institute for Liver and Intestinal Research and Department of Gastroenterology, Academic Medical Center, the Netherlands

09:55  Impact of gut microbiota on mouse behaviour and neurophysiology
       Dr. Gregoire Chevalier, Department of Immunology, Institut Pasteur, France

10:20  Modulation of adult neurogenesis by the microbiome; with a little help from the immune system
       Dr. Susanne Wolf, Department of Cellular Neuroscience, Max-Delbrueck Center for Molecular Medicine, Germany

10:45  Networking break & poster viewing

11:15  Neurodegenerative diseases & microbes: the gut immune brain axis in Parkinson’s disease
       Prof.dr. Aletta Kraneveld, Utrecht Institute for Pharmaceutical Sciences, Utrecht University, the Netherlands

11:35  Precision microbiome reconstitution reverses maternal diet-induced behavioural and synaptic deficits in offspring
       Dr. Mauro Costa-Mattioli, Departments of Neuroscience and Molecular & Cellular Biology, Baylor College of Medicine, USA

12:00  Food, mood, drugs, and their relation with the gut microbiome
       Dr. Alexandra Zhernakova, Department of Genetics, University Medical Center Groningen, the Netherlands

12:20  Potential new mechanisms by which microbiota affect CNS function
       Dr. Rochellys Diaz Heijtz, Department of Neuroscience, Karolinska Institutet, Sweden

12:45  Lunch break & poster viewing
THURSDAY 1 DECEMBER 2016

SESSION 2: APPLIED RESEARCH IN THE FIELD OF THE GUT-BRAIN AXIS

Chair: Prof. dr. John F. Cryan, Department of Anatomy and Neuroscience, University College Cork, UK

13:45 Gut microbiota in Parkinson’s disease
Dr. Filip Scheperjans, Department of Neurology, Helsinki University Hospital & Department of Clinical Neurosciences, University of Helsinki, Helsinki, Finland

14:10 The role of gastro-intestinal microbiota in Alzheimer’s disease
Dr. Tristan Bolmont, Institute of Microengineering, École Polytechnique Fédérale de Lausanne and Stemedica International, Switzerland

14:35 How connections between microbiota and brain circuitry influence anxiety and depression
Prof. dr. Jane Foster, Department of Psychiatry and Behavioural Neurosciences, McMaster University, Canada

15:00 Microbiota and immune system interactions in a gut–brain model of schizophrenia
Dr. Emily Graves Severance, Department of Pediatrics, Johns Hopkins University School of Medicine, USA

15:30 Networking break & poster viewing

16:00 Enteric short chain fatty acids: microbial messengers of metabolism, mitochondria and mind – implications in autism spectrum disorders
Dr. Derrick MacFabe, Departments of Psychology and Psychiatry, University of Western Ontario, Canada

16:25 Gut microbiome in ADHD and its relation to neural reward anticipation
Dr. Alejandro Arias Vásquez, Donders Institute for Brain, Cognition and Behaviour, Radboud University Medical Centre, the Netherlands

16:45 Role of gut microbiota, intestinal permeability and inflammation in alcohol dependence
Dr. Sophie Leclerq, Louvain Drug Research Institute, Université catholique de Louvain, Belgium

SESSION 3: SPEED PRESENTATIONS

Chair: Dr. Saskia van Hemert, Winclove, the Netherlands

17:05 Speed presentations by selected poster presenters

17:35 – 21:30 SOCIAL EVENT
Visit to Micropia, the only museum of its kind displaying the invisible world of microorganisms, followed by the conference dinner.
FRIDAY 2 DECEMBER 2016

SESSION 4: THE GUT-BRAIN AXIS: TARGETED INTERVENTIONS AS NOVEL THERAPEUTIC STRATEGIES

Chair: Prof. Dr. Marion Leboyer, Mondor Institute of Biomedical Research, University Paris Est Créteil, France

08:45 Regulation of CNS inflammation by environmental factors
Dr. Francisco Quintana, Ann Romney Center for Neurologic Diseases, Brigham and Women’s Hospital, Harvard Medical School, USA

09:10 The therapeutic potential of targeting diet and the gut microbiota in brain and behaviour
Sarah Dash, IMPACT Strategic Research Centre, Deakin University, Australia

09:35 Brain–gut–microbiota axis: a target for psychotropic intervention
Prof. Dr. Ted Dinan, APC Microbiome Institute, University College Cork, UK

10:00 Prebiotic modulation of emotional and cognitive function in rodents and humans
Dr. Phil Burnet, Department of Psychiatry, University of Oxford, UK

10:30 Networking break & poster viewing

11:00 Pioneering probiotic clinical application in gut-brain axis: a historical perspective
Dr. Stéphanie-Anne Girard, Lallemand, Canada

11:25 Probiotics to reduce depression vulnerability: multispecies probiotics reduces cognitive reactivity to sad mood
Dr. Laura Steenbergen, Institute of Psychology, Leiden University, the Netherlands
FRIDAY 2 DECEMBER 2016

SESSION 5: LOOKING FOR COMMON GROUND BETWEEN SCIENCE AND CLINICAL PRACTICE

11:50 – 13:00 WORKING SESSIONS

Research in the gut-brain field is increasing rapidly, however, clinical implementation is still in its infancy. We are an expert community united by the common interest for optimal (patient) care. Through a structured discussion intended to utilise the collective intelligence in each working session, we aim to evaluate the clinical and scientific insights within three fields (autism, depression, and Parkinson’s disease), exploring which concrete steps are needed to accelerate the translation of available (and upcoming) research into clinical application.

WORKING SESSION 1
Topic: AUTISM
Experts: Dr. Derrick MacFabe, Departments of Psychology and Psychiatry, University of Western Ontario, Canada
Dr. Mauro Costa-Mattioli, Departments of Neuroscience and Molecular & Cellular Biology, Baylor College of Medicine, USA

WORKING SESSION 2
Topic: DEPRESSION
Experts: Prof.dr. Jane Foster, Department of Psychiatry and Behavioural Neurosciences, McMaster University, Canada
Prof.dr. Ted Dinan, APC Microbiome Institute, University College Cork, UK

WORKING SESSION 3
Topic: PARKINSON’S DISEASE
Experts: Dr. Filip Scheperjans, Department of Neurology, Helsinki University Hospital & Department of Clinical Neurosciences, University of Helsinki, Helsinki, Finland
Prof.dr. Aletta Kraneveld, Utrecht Institute for Pharmaceutical Sciences, Utrecht University, the Netherlands

13:00 – 13:30 PLENARY WRAP-UP OF THE WORKING SESSIONS

CLOSING SESSION

13:30 Final conclusions of MIND, MOOD & MICROBES and future implications
Panel consisting of keynote speakers and session chairs

13:45 Closing of MIND, MOOD & MICROBES
GENERAL INFORMATION

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

Who should attend
The conference is designed for academia, health 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
The conference will be held in Artis Royal Zoo, located right in the centre of Amsterdam, the Netherlands. Artis Royal Zoo was the first zoo to be established in the Netherlands in 1838. It is a place where nature and cultural heritage come together with a wealth of well-preserved 19th century architecture. And beyond the zoo’s walls, the Plantage district is one of the greenest and prettiest neighbourhoods in all of Amsterdam.

Next door you will find Micropia, the only museum of its kind displaying the invisible world of microorganisms. Discover the invisible life.

Call for poster abstracts
Interested participants, particularly students, are encouraged to submit poster abstracts by no later than 1 October 2016. A number of posters will be selected for speed presentations. For more information, visit the conference website: www.MindMoodMicrobes.org

Business opportunities
MIND, MOOD & MICROBES offers various business opportunities, including company stands, company brochure inserts and an advertisement in the book of abstracts. For more information, visit the conference website: www.MindMoodMicrobes.org

Accreditation
MIND, MOOD & MICROBES has applied for accreditation for medical specialists.

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 or the identity of the speakers.

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