THE 6TH BENEFICIAL MICROBES CONFERENCE

PRE- and PROBIOTICS for LIFELONG Human and Animal Health

9-11 October 2017
AMSTERDAM
THE NETHERLANDS

www.BeneficialMicrobes2017.org
WELCOME

It’s with great pleasure that we announce the upcoming 6th Beneficial Microbes Conference, to be held in Amsterdam, the Netherlands, on 9-11 October 2017.

The impact of pre- and probiotics seems too diverse to be beneficial to the average man/woman as different life stages have different needs: pregnancy period; infancy and childhood; adulthood; and older adults. This applies to animals, such as pigs, poultry, cattle, horses, dogs and cats, as well. The 6th Beneficial Microbes Conference aims to define the gaps, needs, and opportunities for pre- and probiotics applications over the lifespan. Topics include but are not limited to pre- and probiotics and the gut microbiome, the gut-brain axis, the microbiome beyond the gut (reproductive organs, oral cavity, nose, lung, skin, eye), and more.

The members of the Advisory Committee are looking forward to meeting you in Amsterdam! We aim at a networking meeting to create new initiatives for the customised application of pre- and probiotics in food, feed and healthcare.

On behalf of the Advisory Committee,

Prof.dr. Koen Venema
Conference chair

The Advisory Committee of the 6th Beneficial Microbes Conference issues a call for poster abstracts. Particularly students are encouraged to submit abstracts.

Submission deadline
15 August 2017

Notification of acceptance
Not later than 30 August 2017

Speed presentations
A number of abstracts will be selected for 6-minute talks (‘speed presentations’) on Monday 9 October and Tuesday 10 October 2017.

Topics
Conference topics include, but are not limited to pre- and probiotics and:
• lifelong human and animal health
• pregnancy and early life
• adolescents, adults and seniors
• pets and farm animals
• gut microbiome
• gut-brain axis
• reproductive organs, oral cavity, nose, lung, skin, eye

Rules for submission
• Abstracts must be sent by email to: BMC@bastiaanse-communication.com
• Abstracts must be submitted in English and shall not exceed 400 words.
• Abstracts will be accepted in Microsoft Word only.
• The Advisory Committee will determine whether the abstract will be accepted.
• Submission of an abstract acknowledges the author’s acceptance for the abstract to be published in the book of abstracts.
• Presenting authors of abstracts must be registered and paid participants.

Poster size
Poster size: A0 portrait (841 mm x 1189 mm). Appropriate means of affixing the poster to the poster board will be supplied on site.

Poster presentation
Posters will be displayed throughout the conference.
Monday 9 October 2017

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<td>13:15 – 14:15</td>
<td><strong>PLENARY MEETING</strong> Pre-/probiotics – keynote topics</td>
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<td>14:15 – 17:45</td>
<td><strong>PLENARY MEETING</strong> Pre-/probiotics and the gut</td>
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<td>08:30 – 12:30</td>
<td><strong>PARALLEL SESSION 1</strong> Pre-/probiotics and the gut-brain axis</td>
<td><strong>PARALLEL SESSION 2</strong> Pre-/probiotics in productive animals</td>
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<td>14:00 – 17:10</td>
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Wednesday 11 October 2017

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<td>08:30 – 10:45</td>
<td><strong>PLENARY MEETING</strong> Pre-/probiotics – health, disease and longevity</td>
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<td>11:15 – 13:00</td>
<td><strong>FINAL PLENARY MEETING</strong> Facing the future – challenges ahead</td>
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<td>Conference closing</td>
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* Short presentations by selected poster presenters to provide an overview of their research and inspire the audience to visit their posters.
CONFERENCE PROGRAMME

13:00 Opening of the 6th Beneficial Microbes Conference
Prof. dr. Koen Venema – conference chair
Beneficial Microbes Consultancy and Maastricht University, the Netherlands

PLENARY MEETING
Pre-/probiotics – keynote topics

Chair: Prof. dr. Koen Venema

13:15 Microbes matter more than ever – innovating in probiotics
Dr. Johan van Hylckama Vlieg, Chr. Hansen, Denmark

13:45 Prebiotics in metabolic disorders associated with cancer and obesity
Dr. Laure Bindels, Louvain Drug Research Institute, UCL, Belgium
PLENARY MEETING

Pre-/probiotics and the gut

Chair: Dr. Annick Mercenier, Nestlé, Switzerland

14:15 Chair’s introduction

14:20 Influence of pre- and probiotics on early life dynamics of infants’ large intestinal microbiota composition and activity
Prof.dr. Hauke Smidt, Agrotechnology and Food Sciences, Wageningen University & Research, the Netherlands

14:45 Human milk oligosaccharide consumption patterns in baby’s large intestine
Prof.dr. Henk Schols, Agrotechnology and Food Sciences, Wageningen University & Research, the Netherlands

15:10 Early benefits of a starter formula enriched in pre- and/or probiotics on the gut microbiota of healthy infants born to HIV+ mothers
Dr. Philippe Steenhout, Département femme-mère-enfant, Centre hospitalier universitaire vaudois, Switzerland

15:35 Networking break & poster viewing

16:00 Gut microbiota, probiotics, and vaccine responses in children
Dr. Katri Korpela, Department of Bacteriology and Immunology, University of Helsinki, Finland

16:25 Ecology of gut microbiota in Japanese children: possible link with pre- and probiotics research
Dr. Jiro Nakayama, Faculty of Agriculture, Kyushu University, Japan

16:50 Looking for alleviation of IBS symptoms: what about beneficial yeast?
Dr. Bertrand Rodriguez, Lesaffre Human Care, France

17:15 The human gut mycobiome: pitfalls and potentials
Dr. José Manuel Fernández Real, CIBERobn Obesity, Biomedical Research Institute of Girona, Spain

17:40 Chair’s summary

PLENARY MEETING

Speed presentations

Chair: Dr. Marjorie Koenen, consultant, the Netherlands

17:45 – 18:15 Short presentations by selected poster presenters to provide an overview of their research and to inspire the audience to visit their posters.

18:15 – 19:30 Poster viewing & drinks
PARALLEL SESSION 1
Pre-/probiotics and the gut–brain axis

Chair: Dr. Emily B. Hollister, Baylor College of Medicine, USA

08:30 Chair’s introduction

08:35 Gut–brain axis in early life: a prime time for probiotics?
Dr. Marko Kalliomäki, Department of Paediatrics, University of Turku, Finland

09:00 Long-term effect of early life antibiotic and probiotic exposure on brain and behaviour
Dr. Sophie Leclercq, Institute of Neuroscience and Louvain Drug Research Institute, UCL, Belgium

09:25 Examining the role of the microbiota–gut–brain axis in the development of hypertension
Dr. Dave J. Durgan, Department of Anesthesiology, Baylor College of Medicine, USA

09:50 Dietary prebiotic supplements prevent stress-evoked sleep disruptions, anxiety and gut microbial dysbiosis
Dr. Monika Fleshner, Department of Integrative Physiology, University of Colorado Boulder, USA

10:15 Networking break & poster viewing

10:45 Speaker to be confirmed

11:10 Probiotics – a novel antidepressant? Lessons from preclinical studies
Dr. Anders Abildgaard, Aarhus University, Denmark

11:35 Lactobacillus plantarum PS128 rescues motor deficits in MPTP mouse models of Parkinson’s disease
Prof.dr. Ying-Chieh Tsai, Institute of Biochemistry and Molecular Biology, National Yang-Ming University, Taiwan

12:00 Knowledge and holes in the gut–brain axis
Prof.dr. Robert Jan Brummer, School of Medical Sciences, Örebro University, Sweden

12:25 Chair’s summary

12:30 Lunch break & poster viewing
PARALLEL SESSION 2
Pre-/probiotics in productive animals

Chair: Prof.dr. Richard Ducatelle, Ghent University, Belgium

08:30 Chair’s introduction

08:35 Potential of using pre- and probiotics in early life of ruminants to program the rumen microbial ecosystem
Dr. David R. Yáñez-Ruiz, Estación Experimental del Zaidín. CSIC, Spain

09:00 Fibrolytic potential of rumen microbiota in young lambs and impact of probiotics
Dr. Frédérique Chaucheyras-Durand, Lallemand Animal Nutrition, France

09:25 CALIMERO, an in vitro dynamic, computer-controlled Chicken ALIMEntary tRact mOdel
Prof.dr. Koen Venema, Beneficial Microbes Consultancy and Maastricht University. the Netherlands

09:50 Antimicrobial activity of Bacillus - from genomic potential to effective probiotic activity in the gastrointestinal tract of broilers
Dr. Marion Bernardeau, Danisco Animal Nutrition, DuPont Industrial Biosciences. France

10:15 Networking break & poster viewing

10:45 Bayer’s gut health solution for poultry through a novel, patented strain of Bacillus subtilis
Dr. V.K. Shankar, Bayer Animal Health GmbH. Germany

11:10 Lactobacillus reuteri suppresses enterohaemorrhagic Escherichia coli O157:H7 in bovine ruminal fluid
Dr. Lysiane Dunière, UMR MEDIS 454 INRA-UCA and Lallemand Animal Nutrition. France

11:35 Prevention of metritis in dairy cows by lactic acid bacteria
Dr. Anna Aris, Department of Ruminant Production. IRTA, Spain

12:00 Effects of the probiotic Saccharomyces cerevisiae var. boulardii on behaviour, metabolism and faecal microbiota of finishing pigs submitted to heat stress
Dr. Caroline Achard, Lallemand Animal Nutrition. France

12:25 The usefulness of the ‘omics’ tools to deeply characterise the effect of probiotic administration on the pig
Dr. Paolo Trevisi, Department of Agricultural and Food Sciences, University of Bologna. Italy

12:50 Lunch break & poster viewing
PARALLEL SESSION 3
Pre-/probiotics beyond the gut

Chair: Dr. Thomas D. Leser, Chr. Hansen, Denmark

14:00 Chair’s introduction

14:05 The use of probiotics to modify the gut-skin axis in health and disease
Dr. Catherine O’Neill, Centre for Dermatology Research, The University of Manchester, UK

14:30 Staphylococcus aureus and the ecology of the nasal microbiota
Dr. Paal Skytt Andersen, Department of Veterinary and Animal Sciences, University of Copenhagen, Denmark

14:55 How do probiotics benefit athletes?
Dr. Danica Michaličková, Department of Pharmacology, Charles University, Czech Republic

15:20 Effects of probiotics on sperm quality
Dr. Vanesa Robles, Plantas de El Bocal, IEO, Spain

15:45 Networking break & poster viewing

16:15 Vaginal probiotics to prevent recurrence of bacterial vaginosis
Prof.dr. Janneke van de Wijgert, Institute of Infection and Global Health, University of Liverpool, UK

16:40 New generation of vaginal probiotics
Dr. Magdalena Strus, Department of Microbiology, Jagiellonian University Medical College, Poland

17:05 Chair’s summary

PLENARY MEETING
Speed presentations

Chair: Dr. Marjorie Koenen, consultant, the Netherlands

17:10 – 17:45
Short presentations by selected poster presenters to provide an overview of their research and to inspire the audience to visit their posters.

17:45 – 19:00
Poster viewing & drinks
PARALLEL SESSION 4
Pre-/probiotics in animals

Chair: Dr. Frédérique Chaucheyras-Durand, Lallemand, France

14:00 Chair’s introduction

14:05 Faecal microbiota transplant in veterinary medicine: the egg of Columbus for autologous probiotics alimentary integration
Prof.dr. Giacomo Rossi, Department of Veterinary Science, University of Camerino, Italy

14:30 Applications for pre- and probiotics to modify the canine intestinal microbiota – what is the evidence?
Dr. Silke Salavati, The Royal (Dick) School of Veterinary Studies, University of Edinburgh, UK

14:55 Relationships between gut microbiota and glucose homeostasis in obese dogs fed with scFOS or oligofructose-enriched diets
Dr. Emmanuelle Apper, Tereos, France

15:20 The use of prebiotics in a strict carnivore, the cat
Prof.dr. Myriam Hesta, Department of Nutrition, Genetics and Ethology, Ghent University, Belgium

15:45 Networking break & poster viewing

16:15 Modulation of the equine hindgut microbiota using pre/probiotics: current knowledge, applications and perspectives
Dr. Pauline Grimm, Lab To Field, France

16:40 Probiotics in turtles – their effects on growth performance, shell mineralization and microbiota
Mateusz Rawski, M.Sc., Department of Animal Nutrition and Feed Management. Poznan University of Life Sciences, Poland

17:05 Chair’s summary

PLENARY MEETING
Speed presentations

Chair: Dr. Marjorie Koenen, consultant, the Netherlands

17:10 – 17:45 Short presentations by selected poster presenters to provide an overview of their research and to inspire the audience to visit their posters.

17:45 – 19:00 Poster viewing & drinks
PLENARY MEETING
Pre-/probiotics – health, disease and longevity

Chair: Dr. Jiro Nakayama, Kyushu University, Japan

08:30 Chair’s introduction

08:35 Where probiotic therapy saves lives
Dr. Johanna Maukonen, DuPont, Finland

09:00 Translating microbiota knowledge to improved outcomes in the intensive care unit: where do we stand?
Dr. Joost Wiersinga, Center for Experimental and Molecular Medicine, Amsterdam Medical Center, the Netherlands

09:25 Probiotic Saccharomyces cerevisiae and enterohemorrhagic Escherichia coli: an effective strategy against a deadly enemy?
Dr. Stéphanie Blanquet-Diot, UMR 454 Microbiote Environnement Digestif et Santé, Université Clermont Auvergne, France

09:50 Dietary fibre, the gut microbiota and the colonic mucus barrier: implications for health and disease
Dr. Mahesh S. Desai, Department of Infection and Immunity, Luxembourg Institute of Health, Luxembourg

10:15 Dietary fibres as oral adjuvant
Dr. Jurriaan Mes, Food & Biobased Research, Wageningen University & Research, the Netherlands

10:40 Chair’s summary

10:45 Networking break & poster viewing
FINAL PLENARY MEETING

Facing the future – challenges ahead

Chair: Prof.dr. Koen Venema, Beneficial Microbes Consultancy and Maastricht University, the Netherlands

11:15 Chair’s introduction

11:20 Lactic acid bacteria convert human fibroblasts into multipotent cells
Dr. Kunimasa Ohta, Department of Developmental Neurobiology, Kumamoto University, Japan

11:45 Host-niche specialisation in the gut – clues from bacterial genomes and transcriptomes
Dr. Lisa Crossman, University of East Anglia and SequenceAnalysis.co.uk, UK

12:10 Harnessing magneto-aerotactic bacteria to deliver therapeutics in regions of active cancer cells
Prof.dr. Sylvain Martel, Department of Computer Engineering, Polytechnique Montréal, Canada

12:35 Top five lessons learned at the 6th Beneficial Microbes Conference
Prof.dr. Koen Venema, Beneficial Microbes Consultancy and Maastricht University, the Netherlands

13:00 Closing of the 6th Beneficial Microbes Conference
Website
The latest details of the 6th Beneficial Microbes Conference can be found at the conference website: www.BeneficialMicrobes2017.org

Who should attend?
The conference topics are intended to meet the needs of researchers, food, feed and healthcare professionals who want to be updated on the advances in pre- and probiotics research. Interested attendees include basic and translational research scientists, nutritionists, dietitians, physicians, students, policy makers, and key opinion leaders with an interest in pre- and probiotics.

How to register and book a hotel room?
For all relevant information on registration fees, on-line registration and hotel accommodation, please go to the conference website: www.BeneficialMicrobes2017.org

Venue
The conference will be held in Hotel Casa Amsterdam, the Netherlands. Thanks to the hotel’s unique location near the Amstel Station, the whole city is at your feet.

About Amsterdam
Amsterdam provides all you need for an unforgettable getaway. The 17th century historical atmosphere combined with the mentality of a modern metropolis creates a friendly and relaxed environment. The city has the highest museum density in the world and is home to cultural highlights, such as the Van Gogh Museum, Anne Frank House, Hermitage Amsterdam and the Rijksmuseum with Rembrandt’s world-famous Nightwatch. Other well-known places of interest in Amsterdam are the Palace on the Dam, the Artis Zoo, Jewish Historical Museum and the Rembrandt House.

Language
English will be the official conference language. 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.

Business Opportunities
The 6th Beneficial Microbes Conference offers various business opportunities, including:
• Sponsoring of the conference
• Benefit from excellent name recognition by sponsoring the conference. Sponsoring opportunities covering lunch, evening functions and conference programme material also exist.
• Exhibiting at the conference
• Gain valuable direct exposure! Parallel to the conference a commercial exhibition presenting products and services related to pre- and probiotics will be organised.

More information on the business opportunities can be found at the conference website: www.BeneficialMicrobes2017.org

Conference Secretariat
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