

## THURSDAY 12<sup>th</sup> October 2017

08:00 - 08:45 Registration, Coffee & Tea

08:45 - 09:00 Opening Symposium: Paul Smits, Dean / vice-chairman Radboud University Medical Center

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### *Session 1: MICROBIOME & GENETICS*

**Chair: Joost Hoenderop**

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09:00 - 09:25 Mike Jetten (NL)

**Metagenomics to unravel the blue print of “impossible” anaerobic micro-organisms involved in sustainable nitrogen and methane removal from waste waters.**

09:25 - 09:50 Cisca Wijmenga (NL)

**Population-based approach to human metagenomics**

09:50 - 10:15 Jeroen Raes (BE)

**Towards population-level microbiome monitoring: the Flemish Gut Flora Project**

**Coffee / Tea Break**

### *Session 2: MICROBIOME & CANCER*

**Chair: Annemaire Boleij**

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10:45 - 11:10 Julian R. Marchesi (UK)

**The oncomicrobiome: managing the hype to realise the potential**

11:10 - 11:35 Cynthia L. Sears (USA)

**Colon cancer: contributions of bacterial species and communities**

11:35 - 12:00 Christian Jobin (USA)

**Mining the microbiota for therapeutic targets applicable to cancer**

## Lunch & poster session

### *Session 3: MICROBIOME & INFECTION*

**Chair: Mihai Netea**

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13:30 - 13:55 Lars Engstrand (SWE)  
**Future approaches to shape the gut microbiome in clinical practice**

13:55 - 14:20 Willem de Vos (NL)  
**The human intestinal microbiome: from structure to solutions**

14:20 - 14:45 David Underhill (USA)  
**Commensal fungi in health and disease**

## Coffee / Tea Break

**Chair: René Bindels**

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15:15 - 15:45 Yasmine Belkaid (USA)  
**Perinatal microbiome: programming for future health**

15:45 - 16:10 Mihai Netea (NL)  
**Microbiome impact on innate immunity'**

### *Hans Bloemendal Medal*

16:10 - 16:25 Hans Bloemendal Medal for Outstanding Scientific Achievement for Richard Flavell

16:25 - 17:25 Richard Flavell (USA)  
**Intersection of microbes and the innate immune system at mucosal surfaces**

17:25 Coaches depart for Landmark Wijnfort, Lent

18:00 - 23:00 Dinner at Landmark Wijnfort

23:00 Coaches depart back to Nijmegen center

**FRIDAY 13<sup>th</sup> October 2017**

08:00 - 09:00 Registration, Coffee & Tea

## ***Session 4: MICROBIOME & INFLAMMATION***

**Chair: Peter van der Kraan**

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09:00 - 09:25 Gregory A. Buck (USA)  
**The role of the microbiome of the female reproductive tract on health and pregnancy**

09:25 - 09:50 Kjersti Aagaard (USA)  
**Perinatal microbiome: programming for future health**

09:50 - 10:15 Melanie Schirmer (USA)  
**The human microbiome in IBD**

**Coffee / Tea Break**

10:45 - 11:10 Nanna Fyhrquist (SWE)  
**Microbe-host interactions in allergic disease**

11:10 - 11:35 Elizabeth A. Grice (USA)  
**Consequences of perturbing the skin microbiome**

## ***Session 5: MICROBIOME & NEURODEVELOPMENT***

**Chair: Judith Homberg**

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11:35 - 12:00 Rochellys Diaz Heijtz (SWE)  
**Bacterial peptidoglycans as novel signaling molecules from microbiota to brain**

**Lunch & poster session**

13:30 - 13:55 Christopher A. Lowry (USA)  
**An immunization strategy for prevention of stress-related psychiatric disorders**

13:55 - 14:20 Ted Dinan (IER)  
**What the gut tells the brain: the brain-gut-microbiome axis**

## *Session 6: MICROBIOME & THERAPY*

**Chair: Joost Schalkwijk**

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14:20 - 14:45 David Relman (USA)  
**The human microbiome and the future practice of medicine**

**Coffee / Tea Break**

15:15 - 15:40 Dominic Raj (USA)  
**Gut microbiome and targeted Interventions**

15:40 - 16:05 Ellen Blaak (NL)  
**Gut microbiota and metabolic health: hype or hope?**

## *Poster awards & closure*

**Chair: René Bindels**

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16:05 - 16:25 Poster awards

16:25 - 16:30 Closing words