

The human microbiome: impact of the diet and dietary components, new investigational approaches and role in the control of metabolic and mental health

Grand Hotel Riviera, Sorrento, Italy

Final program

Monday, October 28

- 15.00-15.30 Welcome address** - Vincenzo Di Marzo, Director of MicroMeNu; Emanuele Fiore, Delegate of the CNR President, Massimo Inguscio; Barbara Nicolaus, Director of ICB-CNR; Michel Tremblay, Associate Vice-President Research and Innovation Université Laval
- 15.30-16.00 Coffee break**
- 16.00-18.15 Session 1. Food4BrainHealth-1. "Food, mouth, brain, microbes" (Chairman: Denis Richard, Université Laval)**
- 16.00-16.45** Frédéric Calon, Université Laval, Canada "Metabolic and nutritional approaches in neurodegenerative diseases: insights from preclinical studies"
- 16.45-17.30** Xavier Fioramonti, INRA Bordeaux, France "Brain sugar sensing"
- 17.30-18.15** Lionel Breillon, INRA Dijon, France "Flavor perception: mental representation, link with food intake control and putative role of oral microbiota"

Tuesday, October 29

- 09.00-10.30 Session 2. "Metabolic control by the gut microbiome" (Chairman: André Marette, Université Laval)**
- 09.00-09.45** Patrice Cani, Université Catholique de Louvain, Belgium "Specific modulation of the gut microbiota to modulate host metabolism: from the bench to the bedside"
- 09.45-10.30** Ellen Blaak, Maastricht University, The Netherlands "Short chain fatty acids, gut microbiota and metabolic health"
- 10.30-11.00 Coffee break and poster session**
- 11.00-12.30 Session 3. "New approaches and challenges in microbiome studies" (Chairman: Yves Desjardins, Université Laval)**
- 11.00-11.45** Didier Raoult, IHU Méditerranée Infection, Aix Marseille University, France "Culturomics and microcomics approach to microbiota"
- 11.45-12.30** Tom van de Wiele, Ghent University, Belgium "Chasing microbiome determinants of personalised health effects from novel food ingredients"
- 12.30-13.30 Lunch**
- 13.30-15.00 Session 4. "Physiological and nutritional factors affecting human microbiota and health" (Chairman: Gianluigi Russo, CNR)**
- 13.30-14.15** Catherine Stanton, Teagasc/APC Microbiome, Ireland "Early life microbiota development and host health"
- 14.15-15.00** Daniele Del Rio, University of Parma, Italy "Dietary polyphenols, gut microbes, and health: a complex interaction"
- 15.00-15.30 Coffee break and poster session**
- 15.30-17.45 Session 5. "The gut microbiome-endocannabinoidome connection" (Chairman: Patrice Cani, Université Catholique de Louvain)**
- 15.30-16.00** Nicolas Flamand, Université Laval, Canada "Endocannabinoids and the immune system: novel biosynthetic and metabolic pathways expanding the endocannabinoidome"
- 16.00-16.30** Frédéric Raymond, Université Laval, Canada "Gut microbiota and metabolite production from the diet"
- 16.30-17.00** Cristoforo Silvestri, Université Laval, Canada "Bidirectional interaction between the gut microbiome and the endocannabinoidome"
- 17.00-17.30** Alain Veilleux, Université Laval, Canada "Rapid and concomitant gut microbiota and endocannabinoidome response to the diet"
- 17.30-17.45 Discussion**

Wednesday, October 30

- 09.00-12.30 Session 6. Food4BrainHealth-2. "Focus on PUFAs and the gut-brain axis" (Chairman: Sebastiano Banni, University of Cagliari)**
- 09.00-09.45** Richard Bazinet, University of Toronto, Canada "How docosahexaenoic acid enters the brain"
- 09.45-10.30** Sophie Layé, INRA Bordeaux, France "Dietary polyunsaturated fatty acids and brain functions: role in mood and cognitive disorders"
- 10.30-11.00 Coffee break and poster session**
- 11.00-11.45** Mélanie Plourde, Université de Sherbrooke, Canada "Fatty acid profile of jejunum and duodenum in APOE4 carriers and non-carriers fed a docosahexaenoic acid diet"
- 11.45-12.30** Andréanne Michaud, Université Laval, Canada "Neurobehavioral and neuroanatomical changes after weight loss surgery"
- 12.30-13.00 Round table and final remarks (All members of the scientific committees)**
- 13.00-14.00 Lunch**