



UNIVERSITÉ
LAVAL

Consiglio Nazionale
delle Ricerche



INSTITUT UNIVERSITAIRE
DE CARDIOLOGIE
ET DE PNEUMOLOGIE
DE QUÉBEC



INTERNATIONAL CONFERENCE



JOINT INTERNATIONAL CONFERENCE
OF THE JIRU MICROMENU &

BÉNÉFIQ 2021

October
6-8, 2021

Hôtel Château Laurier, QC, Canada AND ONLINE

4th Annual Conference of the Joint International
Research Unit on Chemical and Biomolecular
Studies on the Microbiome and its Impact on
Metabolic Health and Nutrition (JIRU-MicroMeNu)

"Healthy Microbiomes for Human Health"

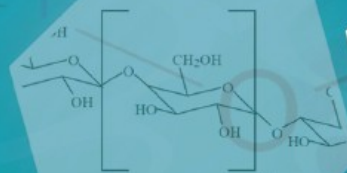
and BÉNÉFIQ conference on
"Diet and Immunity"

Sponsored by:

Sentinelles
Nord



Bio-K⁺ PLUS



- 10:30-11:00 Welcome from the local authorities** (Vincenzo Di Marzo, Director of the JIRU; Michel J. Tremblay, Vice-President to Research, U Laval; Janice Bailey, director FRQ-NT; Emanuele Fiore, Delegate for the JIRU of the CNR President, Maria Chiara Carrozza)
- 11:00-12:00 Introductory lecture** (Chair: André Marette, Université Laval)
Ami Bhatt (Stanford University, USA) (in presence)
From precise microbiome genomes to precision medicine
- 12:00-13:00 Lunch**
- 13:00 -14:30 Session 1: The microbiome and the gut-brain axis** (Chair: Sebastiano Banni, University of Cagliari, Italy)
- 13:00-13:45 John Cryan (APC Microbiome Ireland & University College Cork, Ireland)** (online only)
Diet and the Microbiota-Gut-Brain Axis: Sowing the Seeds of Good Mental Health
- 13:45-14:30 Richard E Frye (Phoenix Childrens Hospital, Phoenix, AZ)** (in presence)
The influence of microbiome metabolites on mitochondrial function in children with autism spectrum disorder
- 14:30-15:00 Coffee break**
- 15:00-16:30 Session 2: The microbiome, endocannabinoids and plant cannabinoids** (Chair: Patrice Cani, Louvain University)
- 15:00-15:45 Vincenzo Di Marzo (Université Laval and Istituto di Chimica Biomolecolare, CNR)** (in presence)
Interactions between gut microbiota and endocannabinoid-like compounds in obesity and beyond
- 15:45-16:30 Diana Roopchand (Rutgers School, New Brunswick)** (online only)
Therapeutic potential of cannabinoids for attenuating chronic disease in post-menopause: potential role of the gut microbiome

- 09:00-09:15 Welcome from the Director of the Centre Nutriss-INAF, Benoît Lamarche** (Benoît Lamarche, Director Centre Nutriss-INAF; Carole Jabet, Director FRQS)
- 09:15-10:30 Round Table: Choosing Quebec and Quebec City to set up a research program on microbiome research and a place of business** (in presence) (Chair: Yves Desjardins, Université Laval)
Stéphane Gagné, Québec International
Éliane Picard-Deland, INAF
Ismail Fliss, Professor and Researcher, INAF
Charlène Rosine Roussel, post-doctoral student, NUTRISS-INAF
Mathieu Millette, Scientific Director, BioK+
Carole Jabet, Director FRQS
- 10:30-12:00 Session 3: Microbiome ecology** (Chair: Frédéric Raymond, Université Laval)
- 10:30-11:15 Christian Landry (Université Laval)** (in presence)
Fitness and mutational landscapes of antimicrobial resistance
- 11:15-12:00 Éric Déziel (INRS, Canada)** (in presence)
Microbial cooperation: surfactants as socially beneficial bacterial exoproducts
- 12:00-13:00 Lunch**

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Thursday, October 7, 2021

13:00 -14:30 Session 4: The gut microbiome as a health regulator (Chair: Cristoforo Silvestri, Université Laval)

13:00-13:45 Krista Power (University of Ottawa) (in presence)
Plant-based whole foods and intestinal and metabolic health

13:45-14:30 Patrice Cani (UCLouvain, Brussels, Belgium) (in presence)
Discovering next-generation beneficial microbes for human health

14:30-15:00 Coffee break

15:00-16:00 Closing lecture (Chair: Vincenzo Di Marzo, Université Laval)
Emma Allen Vercoe (University of Guelph) (in presence)
Gut microbial ecosystems: from bench to bedside, and beyond

16:00-16:15 Closing words and Arrivederci to Italy 2022 (Denis Richard, JIRU Steering Committee and Université Laval, and Vincenzo Di Marzo)

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Friday, October 8, 2021

One-day BENEFIQ 2021 Online Conference on "Diet and immunity"
Sponsored by Diana Food within the BENEFIQ 2021 Program,
Hôtel Château Laurier, Quebec City, Québec, Canada

09:00-09:15 Welcome presentation of the theme and participants
(Y. Desjardins (Université Laval/INAF) and D. Guyonnet (Diana Nova, France))

09:15-10:00 Guy Roeseler (Danone Research Unit, The Netherlands) (online only)
The role of the gut microbiome in early life immune development

10:00-10:45 John White (McGill University, Montreal) (online only)
Vitamin D signaling in intestinal innate immunity and homeostasis

10:45-11:00 Break

11:00-11:45 Irini Lazo Ahrén (Probi AB, Sweden) (online only)
Bioactive dietary components and enteric infections: lessons from animal models

12:00-13:00 Break

13:00-13:45 Margaret Alexander (University of California San Francisco) (online only)
Examining interactions between diet, microbiome, and immunity to gain mechanistic insight into health and disease

13:45-14:30 Bruce Vallance (University of British Columbia) (online only)
The Intestinal Epithelium: Central Coordinator of Mucosal Immunity

14:30-14:45 Break

14:45-15:30 Anne-Cecile Bayne (DSM Nutritional Products, USA) (online only)
Nutrition and optimal immunity

15:30-16:15 Chantal Matar (University of Ottawa) (online only)
The Immunomodulatory and Anti-Inflammatory Role of Polyphenols

16:15-16:30 Closing words
(Yves Desjardins, Université Laval; Renée Michaud, INAF)

dianafood
Part of Symrise Nutrition

Conference Scientific committee

Luigi Ambrosio

Institute of Polymers, Composites and Biomaterials, CNR, Napoli, Italy

Sebastiano Banni

Dipartimento di Scienze Biomediche, Università di Cagliari, Monserrato (CA), Italy

Patrice Cani

UCLouvain, Brussels, Belgium

Yves Desjardins

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CRIUCPQ and INAF, Université Laval, Quebec City, Canada; Istituto di Chimica Biomolecolare, CNR, Pozzuoli (NA), Italy

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