



5th – 7th November 2018  
Milan, Italy

University of Milano-Bicocca  
Aula L. Sironi, Building U4  
Piazza della Scienza, 4  
20126 Milan



## Program

Monday 5<sup>th</sup> November 2018, 13.30–18.30  
Afternoon Session

10.00 – 13.00 Registration

13.00 – 13.20 **Francesco Peri**, Opening and welcome address, introduction to MicrobiotaMi 2018

### Plenary Session 1

**"Microbiota/host interaction (innate sensing, gut-brain axis, inflammaging)"**

**Chairman:** Roman Jerala

13.20 – 14.20 **Judith Campisi** (Buck Institute, CA USA)  
*"Senescent cells as drivers of inflammaging"*

14.20 / OC1 – **Esposti Federico** (University Vita-Salute San Raffaele, Milan, Italy)  
*"How the brain responds to bacterial molecules in the gut"*

14.35 / OC2 – **Rossini Valerio** (APC Microbiome Ireland, University College Cork, Ireland)

*"Systemic Dissemination of Commensal Bacteria is CX3CR1-dependent and is Mediated by CD11c+ CD103+ Dendritic Cells"*

14.50 / OC3 – **Gorlé Nina** (VIB Center for Inflammation Research, Ghent, Belgium)

*"The choroid plexus epithelium as a novel player in the gut-brain axis"*

15.05 / **Posters Flash** Presentations: **Merlini E.; Consonni A.; Hafner-Bratkovič I.; Hsu E.; Petra S.; Boscaini S.; Riva A.**

15.30 – 16.00 **Coffee break & Poster Session**

**Chairman:** Antonio Molinaro

16.00 – 17.00 **Duccio Cavalieri** (Department of Biology, University of Firenze, Italy)  
*"Evolutionary Metagenomics: How Globalization and climate change affect microbiomes"*

17.00 / OC4 – **Hickey Ana** (APC Microbiome Ireland, University College Cork, Ireland)  
*"The Role of Exopolysaccharide in Modulating Host Immune Responses towards Bifidobacterium breve"*

17.15 / OC5 – **Perruzza Lisa** (Institute for Research in Biomedicine, USI, Bellinzona, Switzerland)

*"ATP released by intestinal bacteria limits the generation of protective IgA against enteropathogens"*

17.30 / OC6 – **Bosman Else** (University of British Columbia)

*"UVB light promotes intestinal homeostasis through Ahr activation"*

17.45 / **Posters Flash** Presentations: **Zeaiter Z.; Manček-Keber M.; Rossi M.; Soccio P.; Masetti G.; Farini A.; Zafeiropoulou K.; Pellicciota M.; Pinto D.; Paziienza V.**

18.30 Welcome cocktail

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This international event is organized as the final event within the European MSCA-ETN project TOLLerant ([www.tollerant.eu](http://www.tollerant.eu)) and it will focus on molecular aspects of microbiota-host interaction in health and disease.



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**Tuesday 6<sup>th</sup> November 2018, 9.00 – 13.00**  
**Morning Session**

**Plenary Session 2**

**"Microbiota and diseases: inflammation, neurodegeneration, autoimmunity"**

**Chairman:** Ivan Zanoni

09.00 – 10.00 **Scott Snapper** (Harvard, USA)

*"Immunological and Microbial Mechanisms of Immune Tolerance in the Human Intestine: Insights from Rare Diseases."*

10.00 – 10.30 **Nissan Yissachar** (Bar-Ilan University Ramat-Gan, Israel)

*"Thinking outside the mouse: ex-vivo dissections of enteric neuro-immune-microbiome cross talks."*

10.30 / OC07 – **Carlo Selmi** (University of Milano and Humanitas Research Hospital)

*"The role of gender in the connection between the microbiome and autoimmunity."*

10.45 / **Posters Flash** Presentations: **Agostinetto G.; Taverniti V.; Zerkani H.; Pallach M.; Di Lorenzo F.**

11.00 – 11:30 **Coffee break & Poster Session**

**Chairman:** Ivan Monteleone

11.30 – 12.30 **Gabriel Nunez** (Department of Pathology Michigan Medicine University of Michigan)

*"Role of the Microbiota in Health and Inflammatory Disease".*

12.30 / OC8 – **Dumas Alexia** (IPBS, CNRS)

*"The host microbiota contributes to early protection against lung colonization by Mycobacterium tuberculosis"*

12.45 / OC9 – **Strati Francesco** (Institute for Research in Biomedicine, Faculty of Biomedical Sciences, USI, Bellinzona, Switzerland)

*"Defective purinergic control of T follicular helper cells alters the IgA-targeted gut microbiota and host metabolism"*

13.00 – 14.00 Lunch

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Tuesday 6<sup>th</sup> November 2018, 14.00 – 18.15

Afternoon Session

### Plenary Session 2

**"Microbiota and diseases: inflammation, neurodegeneration, autoimmunity"**

**Chairman:** Koichi Fukase

14.00 – 15.00 **Hiroshi Kiyono** (University of Tokyo, Japan)

*"Mucosal Multi-Ecological Loop of Intra- and Extra-Tissue Commensal Microbiota, Epithelial Cells and Immune Cells for Gut Homeostasis and Inflammation"*

15.00 / OC10 – **Carmen Giordano** (Politecnico di Milano, Italy)

*"MINERVA ERC project: a bioengineered platform for frontier research on microbiota-gut-brain axis"*

15.15 / OC11 – **Pasquale Striano** (Gaslini Institute and University of Genova, Italy)

*"The bidirectional link between CNS and gut microbiota in epilepsy and other neuropsychiatric disease"*

15.30 / OC12 – **Holgado Aurora** (Inflammation Research Center (IRC)-VIB, Gent, Belgium)

*"Effect of IL-33 targeting in fungal microbiota-induced asthma"*

15.45 / **Posters Flash** Presentations: **Celine Toe L;** **Campisciano G;** **Airoldi C;** **Pirianov G.**

16.00 – 16.30 **Coffee break & Poster Session**

**Chairman:** Koichi Fukase

16.30 – 17.30 **Jin-ichi Inokuchi** (Tohoku Medical and Pharmaceutical University, Japan)

*"New Paradigm for Chronic Inflammation Mediated by Glycosphingolipids"*

17.30 / OC13 – **Annamaria Bevivino** (ENEA, Roma)

*"The airway microbiome in cystic fibrosis: where are we now?"*

17.45 / OC14 – **Shimoyama Atsushy** (Osaka University)

*"Synthesis and functions of symbiotic bacterial lipopolysaccharide partial structures"*

18.00 / OC15 – **Bernard-Raihcon Lucie** (IPBS-CNRS, Toulouse, France) *"Identification and characterization of commensal bacteria that grant protection against immunopathology in tuberculosis"*

**Social event:** guided tour to the **Museo della Scienza e della Tecnica**

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Wednesday 7<sup>th</sup> November 2018, 09.00 – 13.00  
Morning Session

**Plenary Session 3**  
**"Microbiota in nutrition and health"**

**Chairman:** Rudi Beyaert

9.00 – 10.00 **Maria Rescigno** (Humanitas University, Milano, Italy)  
*"Host-microbe interactions in the gut-liver axis"*

10.00 / OC16 – **Hellas Cena** (University of Pavia)  
*"Personalized nutrition and human microbiome for NCD prevention and treatment"*

10.15 / OC17 – **Federica Laudisi** (Department of System Medicine, University of Rome Tor Vergata, Rome, Italy)  
*"The food additive maltodextrin promotes endoplasmic reticulum stress-driven mucus depletion and exacerbates intestinal inflammation"*

10.30 / OC18 – **Burrello Claudia** (Department of Oncology and Hemato-oncology, Università degli Studi di Milano, Milan, Italy)  
*"Antibiotic treatment induces recruitment and inflammatory activation of colonic iNKT cells"*

10.45 / OC19 **Annalisa Chiocchetti** (Department of Health Science and IRCAD and CAAD, University of Piemonte Orientale (UPO), Novara)  
*"Development and characterization of a new probiotic formulation, EndolaCoa®, in allergic patients"*

11.00 – 11.30 **Coffee break**

11.30 – 12.30 **Jerry M. Wells** (Department of Animal Sciences, Wageningen University, The Netherlands)  
*"What matters most the microbes or their metabolites?"*

12.30 / OC20 **Giorgia Mori** (IEO Milano and University of Pavia)  
*"Puzzling out gut microbiota composition in sporadic and hereditary colorectal cancer"*

12.45 – **Closing Remarks**

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