After the success of our first edition, we are pleased to announce MicrobiotaMi 2020: three days of scientific sessions and multidisciplinary networking at the brand new Humanitas Congress Center in Milan 5th-7th February 2020.

Researchers in the broad field of microbiota, from bench to bedside, and companies will meet in Milan to share their knowledge and to create new collaborations and technology transfer opportunities.

The program is divided into seven core sessions:

1. Microbiota and immune cells
2. Gut-liver-brain axis
3. Microbiota and Pathogens
4. Gut-bone marrow axis
5. Mucosal surface microbiota
6. Microbiota and immune system: from allergies to cancer
7. Global microbiota signatures and pathologies

In each of these sessions, presentations will be made by leading immunologists and clinicians who will give keynote lectures on state of the art advancements in differing areas of the same microbiome field. A final round table for each session will discuss future development in that area, encouraging contributions from the audience.

MicrobiotaMi is characterized by a multidisciplinary approach, an outstanding scientific level, and a large active participation of young, early stage researchers. We anticipate the attendance of researchers from academia, clinical departments as well as biotech and pharma industries who are interested in the molecular, immunological and translational aspects of microbiota.

We look forward to seeing you at this exciting meeting in a stimulating interdisciplinary environment favored by the intercultural, young, creative, and fascinating city of Milan.

Chairs
Nicasio Mancini
San Raffaele University, Milan
Francesco Peri
University of Milano Bicocca, Milan
Maria Rescigno
Humanitas University, Rozzano, Milan
**Wednesday February 5th**

**From 10:30**  Registration

13:00 – 13:20  Welcome address and introduction to MicrobiotaMI 2020  
Nicasio Mancini (Milan), Francesco Peri (Milan), Maria Rescigno (Milan)

**PLENARY SESSION 1 “Microbiota and immune cells”**  
Chairman: Ivan Zanoni (Milan)

13.20 – 13.40  ILC in mucosal immunity  
Marco Colonna (St. Louis)

13.40 – 13.55  OC1 - Analysis of the Therapeutic Effect of Blidobacterium Administration on Experimental Autoimmune Myasthenia Gravis in Lewis Rats  
Alessandra Consonni (Fondazione IRCCS Istituto Neurologico Carlo Besta, Milan, Italy)

13.55 – 14.10  OC2 - Dissecting the role of the gut microbiota in immune modulation of Multiple Sclerosis  
Jessica Perego (Ospedale San Raffaele, Milan, Italy)

14.10 – 14.25  OC3 - Microbiota-mediated shaping of gut secretory IgA in systemic metabolism  
Lisa Perruzza (Università della Svizzera italiana, Bellinzona, Switzerland)

15:05 – 15:30  Poster Session

15:30 – 16:00  Poster Session and Coffee break

**PLENARY SESSION 2 “Gut-liver-brain axis”**  
Chairman: Simona Lodato (Milan), Pasquale Striano (Genoa)

16:00 – 17:00  Gut microbes and host metabolism: focus on recent translational approaches  
Patrice D. Cani (Brussels)

17:00 – 17:45  Pharmacology of Intestinal Microbiota Transplantation: C. difficile and beyond  
Alexander Khoruts (Minneapolis)

17.45 – 18:00  OC4 - Identification of a Choroid Plexus Vascular Barrier whose Closure upon Intestinal Inflammation Leads to Behavioral Impairments  
Sara Cartoni (Humanitas University, Milan, Italy)

18.00 – 18.15  OC5 - Bristol Stool Test support to explore potential dysbiosis in children with epilepsy  
Antonella Riva (University of Genoa, “G. Gaslini” Institute, Genoa, Italy)

18.15 – 18.30  OC6 - Superabsorbent hydrogel supplementation prevents hepatic steatosis and insulin resistance in high fat diet-induced NAFLD pre-clinical model  
Alessandra Silvestri (Humanitas Clinical and Research Center IRCCS, Milan, Italy)

18:30 – 19:15  Poster Session

**Thursday February 6th**

**PLENARY SESSION 3 “Microbiota and Pathogens”**  
Chairman: Maria Rescigno (Milan)

09:00 – 10:00  Microbial competition for metal ions in the inflamed gut  
Manuela Raffatellu (La Jolla)

10.00 – 10.15  OC7 - How mutualism evolves: Dissecting the role of the host in microbiota evolution  
Marialaura Gallo (University of Padua, Italy)

10.15 – 10.30  OC8 - Enteric microbiome markers as early predictors of clinical outcomes in liver transplant: results of an ongoing prospective study  
Melania Maccaro (Vita-Salute San Raffaele University, Milan, Italy)

10.30 – 10.45  OC9 - Parasites and gut microbiota: is there a link?  
Antonio Mazzarelli (National Institute for Infectious Diseases, INMI “Lazzaro Spallanzani” IRCCS, Rome, Italy)

10.45 – 11.30  Poster Session and Coffee break

**PLENARY SESSION 4 “Gut-bone marrow axis”**  
Chairman: Nicasio Mancini (Milan)

11:30 – 12:30  Gut microbiota and host defense against infectious diseases  
Eric Pamer (Chicago)

12:30 – 13:15  Microbiota modulate outcome of allogeneic stem cell transplantation  
Ernst Holler (Regensburg)

13.15 – 13.30  OC10 - The commensal Prevotella heparinolytica skews dendritic cells towards a pro-Th17 phenotype and accelerates multiple myeloma progression  
Arianna Brevi (Vita-Salute San Raffaele University, Milan, Italy)

13.30 – 14.30  Snack lunch

13:45 – 14:30  OC11 - Antibiotic-induced gut microbiome and metabolome alterations affects therapeutic FMT efficacy  
Francesco Strati (European Institute of Oncology - IEO, Milan, Italy)
PLENARY SESSION 5 “Mucosal surface microbiota”
Chairman: Enrico Papaleo (Milan)

14.30 – 15.30  Friend or Foe? The genitourinary microbiota in Health and disease
Karen Sfanos (Baltimore)

15.30 – 16.15  Gut mycobiota in Immunity and Inflammation
Iliyan Iliev (New York)

16.15 – 16.30  OC12 - Differential composition of vaginal microbiome is associated with successful intrauterine insemination (IUI) in couples with idiopathic infertility: a prospective observational study
Virginia Amato (Vita-Salute” San Raffaele University, Milan, Italy)

16.30 – 16:45  OC13 - Sex specific alterations in the urinary and intratissutal microbiome in therapy naïve urothelial bladder cancer patients
Filippo Pederzoli (Vita-Salute” San Raffaele University, Milan, Italy)

16.45 – 17.00  OC14 - Cutaneous barrier leakage and gut inflammation drive skin disease in Omenn Syndrome
Barbara Cassani (Humanitas Clinical and Research Center IRCCS, Milan, Italy)

Friday February 7th

PLENARY SESSION 6 “Microbiota and immune system: from allergies to cancer”
Chairmen: Iliyan Iliev (New York), Alessandro Repici (Milan)

09.00 – 10.00  Microbiota control of tissue immunity and repair
Yasmine Belkaid (Bethesda)

10.00 – 10.45  Role of the gut microbiota in causation, detection and treatment of cancer
Paul O'Toole (Cork)

10.45 – 11.00  OC15 - Identification of a new vascular marker correlating with colorectal cancer metastatization to distant organ
Alice Bertocchi (Humanitas Research, Milan, Italy)

11.00 – 11.25  OC16 - Intestinal tumor development in Lynch Syndrome: a role for the microbiota?
Wietse Pieters (The Netherlands Cancer Institute, Amsterdam, The Netherlands)

11:15 – 11:30  Coffee break

PLENARY SESSION 7 “Global microbiota signatures and pathologies”
Chairman: Francesco Peri (Milan)

11.30 – 12.30  The hidden human microbiome diversity and personalized host-microbiome interaction
Nicola Segala (Trento)

12.30 – 12.45  OC17 - The impact of sexual behaviour and cardiovascular risk factors on gut microbial dysbiosis HIV related
Giuseppe Ancona (San Paolo Hospital, University of Milan, Italy)

12.45 – 13.00  OC18 - Assessment of single cell RNA-seq statistical methods on microbiome data
Matteo Calgaro (University of Verona, Italy)

13.00 – 13.15  OC19 – Fecal microbiota, serum biomarkers, diet and lifestyle: colorectal cancer risk and prognosis
Federica Corso (European Institute of Oncology - IEO, Milan, Italy)

13:15 – 13.45  Poster Prizes and Closing remarks
Nicasio Mancini (Milan), Francesco Peri (Milan), Maria Rescigno (Milan)
P01 The impact of Akkermansia muciniphila on bone health. 
Sarah Abdollahiyan Microbiology Research Center, Pasteur Institute of Iran, Tehran, Iran

P02 The Relative Abundance of Important Gut Microbiota Members in Iranian CVD Patients. 
Sarah Ahmadi Badi Microbiology Research Center, Pasteur Institute of Iran, Tehran, Iran

P03 Akkermansia muciniphila-derived extracellular vesicles ameliorate obesity by impact on tight junction protein, inflammation and energy homeostasis. 
Fatemeh Ashrafian Department of Mycobacteriology and Pulmonary Research, Pasteur Institute of Iran, Tehran, Iran & Microbiology Research Center (MRC), Pasteur Institute of Iran, Tehran, Iran

P04 Probiotic modulation of dendritic cell function in Crohn’s disease patients. 
Shaghayegh Baradaran Ghavami Gastroenterology and Liver Diseases Research Center, Research Institute for Gastroenterology and Liver Diseases, Shahid Beheshti University of Medical Sciences, Tehran, Iran

P05 Gut microbiota, subclinical carotid atherosclerosis and major cardiovascular risk factors in general population: which association? 
Andrei Baragetti Department of Pharmacological and Biomolecular Sciences, University of Milan, Milan, Italy & IRCCS Neumored, Pozzilli, IS, Italy

P06 Microbiota-driven gut vascular barrier disruption is a prerequisite for NASH development. 
Sara Brescia Humanitas Clinical and Research Center – IRCCS, Rozzano, MI, Italy

P07 Gut microbiota alterations affect glioma growth and innate immune cells involved in tumor immunosurveillance. 
Hanieh-Sadat Ejtahed Endocrinology and Metabolism Research Center, Endocrinology and Metabolism Clinical Sciences, Institute, Tehran University of Medical Sciences, Tehran, Iran

P08 Study of changes in the intestinal microbiota of rats caused by implantation of a biopolymer construct based on poly-3-hydroxybutyrate and alginate. 
Roberto Ferrarese Laboratory of Microbiology and Virology, Ospedale San Raffaele, Milan, Italy

P09 Alteration of gut microbiota composition in obese adults; a possible link between obesity and fatty liver disease. 
Hanieh-Sadat Ejtahed Endocrinology and Metabolism Research Center, Endocrinology and Metabolism Clinical Sciences, Institute, Tehran University of Medical Sciences, Tehran, Iran

P10 Characterization of the urinary microbiota in bladder cancer patients. 
Antonino Lo Cascio Humanitas Clinical and Research Center – IRCCS, Rozzano, MI, Italy

P11 One month of Ketogenic Diet alters short chain fatty acids production in drug-resistant epileptic patients. 
Cinzia Ferrari Department of Neurology, University of Pavia, Pavia, Italy

P12 Toll-like receptor 4-mediated inflammation triggered by extracellular LPS is enhanced by lipopolysaccharide binding. 
Andrea Iannucci CAAD - Center for Translational Research on Autoimmune and Allergic Disease, University of Milan, Milan, Italy

P13 Gut microbiota composition in osteopenia and osteoporosis patients. 
Shahriarzade Keshavarz Azizi Raffi Microbiology Research Center, Pasteur Institute of Iran, Tehran, Iran

P14 Unraveling the Pathways Involved in Gut Vascular Barrier Impairment in Metastatic Colorectal Cancer. 
Antonino Lo Cascio Humanitas Clinical and Research Center – IRCCS, Rozzano, MI, Italy

P15 An anti-inflammatory diet enriched in omega3 and inulin prevents Type 1 Diabetes by inducing intestinal Treg cell differentiation and restoring gut barrier integrity in NOD mice. 
Marta La Conte Experimental Diabetes Unit – DRI, San Raffaele Scientific Institute, Milan, Italy

P16 Beneficial properties of a symbiotic innovative supplement (probiotic; MGP gold and kluyveromyces marxianus b0399) on antibiotic drugs-induced gastrointestinal side effects. 
Mauro Mantovani ARTIB (Associazione Ricerca Terapie Innovative Biointegrate), Italy

P17 Microbiota Composition in HIV-positive and HIV-Exposed Uninfected Pediatric Subjects. 
Esther Merlino Clinic of Infectious Diseases, Dept Health Sciences, University of Milan, Italy

P18 The Airway Microbiota pattern in Cystic Fibrosis. 
Maryam Mescini Department of Mycobacteriology and Pulmonary Research, Pasteur Institute of Iran, Tehran, Iran & Microbiology Research Center (MRC), Pasteur Institute of Iran, Tehran, Iran

P19 Microbiota-mediated PROTEIN X expression affects Immune Breast Cancer Microenvironment and Overall Survival. 
Alessandro Mauro Mozzarelli Humanitas University, Department of Biomedical Sciences, Milan, Italy

P20 Phenotyping and genotyping of non-Escherichia coli Enterobacteriaceae isolated from the gut microbiota of healthy subjects. 
Maddalena Rossi Department of Life Sciences, University of Modena and Reggio Emilia, Modena, Italy

P21 16S profiling and isolation of mucin degraders from human gut microbiota. 
Maddalena Rossi Department of Life Sciences, University of Modena and Reggio Emilia, Modena, Italy

P22 The Lung and Gut Microbiota in Pulmonary Tuberculosis: A Systematic Review. 
Mohammad Makhlouf Tuberculosis Research Center, Tehran University of Medical Sciences, Tehran, Iran

P23 Improvement of 16S rRNA gene sequencing in fresh frozen and formalin fixed paraffin embedded colorectal cancer samples. 
Garazi Serna Molecular Oncology Group, Vall d’Hebron Institute of Oncology, Barcelona, Spain

P24 Microbiota composition in Type 2 Diabetic Patients. 
Seyed Davar Siadat Microbiology Research Center, Pasteur Institute of Iran, Tehran, Iran

P25 Biofilm and soluble virulence factors produced by Staphylococcus spp. strains isolated from skin microbiota in people with acne. 
Gheorghe Silvana-Adelina Carol Davila University of Medicine and Pharmacy, Bucharest, Romania & Cantacuzino National Medico-Military Institute for Research and Development, Bucharest, Romania

P26 Microbial communities in agricultural soil fertilized with animal manure in Northern Italy. 
Roberta Tolosi Department of Comparative Biomedicine and Food Science, University of Padua, Legnaro (PD), Italy

Saeid Davar Siadat Microbiology Research Center, Pasteur Institute of Iran, Tehran, Iran

P28 Biofilm and soluble virulence factors produced by Staphylococcus spp. strains isolated from skin microbiota in people with acne. 
Gheorghe Silvana-Adelina Carol Davila University of Medicine and Pharmacy, Bucharest, Romania & Cantacuzino National Medico-Military Institute for Research and Development, Bucharest, Romania

P29 Soy intake and breast cancer. 
Edy Virgili Outpatient Nutritionist, Porto Sant’Elpidio (FM), Italy

P30 Può la modulazione del microbiota migliorare la risposta alla terapia con checkpoint inhibitor? Case-report 
Filippo Zuccaro Department of Infectious Diseases, Fondazione IRCCS “Policlinico San Matteo,” Pavia, Italy

P31 Gut microbiota and B cell receptor (BCR) inhibitors for the treatment of lymphoid malignancies: retrospective recognition of different enterotypes correlated to clinical response or IRAEs occurrence. 
Valentina Zuccaro Department of Infectious Diseases, Fondazione IRCCS “Policlinico San Matteo,” Pavia, Italy
Humanitas University is an International Medical School based in Milan, built alongside the renowned Humanitas Research and Teaching Hospital. Three buildings immersed in a green area, 25,000 square metres to accommodate 1,200 students from 31 countries around the world. A Simulation Lab of 2,000 square metres, one of the most technological and large in Europe, high-tech classrooms, digital library and residences. A few steps away from the research laboratories directed by Prof. Mantovani and the hospital, an integral part of the campus as a teaching place for future doctors, nurses and physiotherapists.

How to reach the Congress Venue
The Humanitas University is very well connected to the airports, railway stations, city centre via ground transportation:

**From Malpensa Airport**
Take SS336dir to Vizzola Ticino from Strada Statale 336 - 3 min (2.4 km)
Follow SS336dir, A4 / E64 and A60 / E15 in the direction of Via Cassine Scanasio / Strada Provinciale 35 dei Giovi in Rozzano.
Take exit 7-Pavia-Milan-Ticinese from A50 / E35 - 36 min (55.4 km)
Take Viale Monte Amiata, Viale Isonzo, Via Gianni Mazzocchi, Via A. Grandi and Via Alessandro Manzoni to your destination in Cascina Perseghetto.

**From Linate Airport**
Take A50 to Milan from Viale Enrico Forlanini - 5 min (3.5 km)
Continue on A1 and A50/E35 in the direction of Via Eugenio Curiel in Rozzano. Take exit 7bis from A50/E35 - 12 min (17.0 km)
Continue on Via Eugenio Curiel to your destination at Cascina Perseghetto.

**From Central Station**
Take Via Vittor Pisani, Piazza della Repubblica, Bastioni di Porta Venezia, Viale Luigi Majno ... and Viale Beatrice d’Este in the direction of Via Ferdinando Bocconi - 18 min (5.3 km)
Continue on Via Ferdinando Bocconi towards Via Carlo Bazzi - 3 min (1.0 km)
Continue on Via Carlo Bazzi. Guide from Via Medeghino, Via dei Missaglia, Via Eugenio Curiel and Via Alessandro Manzoni at Cascina Perseghetto - 19 min (8.8 km). Turn right. Your destination is on the right.

MicrobiotaMI 2020 wish to thank the following Companies for the support given to the Congress: