Third World Congress on
Targeting Microbiota

Workshop on Exploration & Sequencing of Human Microbiota: The Perfect Signature

October 21-22-23, 2015
Institut Pasteur
Paris, France

Microbiota 2015 - 3 days Program
Dear Colleagues,

It is a pleasure to welcome you for the 3rd World Congress on Targeting Microbiota which will be held at Institut Pasteur, Paris, France on October 21-23, 2015.

During Pasteur Congress, many hot topics will be discussed:

- The Role of Microbiota in Health and Diseases: The Mechanistic Aspects
- Recent Advances on Microbiota Clinical Researches & Innovations in 2015
- Microbiota & Biomarkers: From Predictive to Personalized Medicine
- New Challenges to Prevent and Treat Metabolic Diseases, Cancer, Liver, Kidney, Lung and Inflammation-Related Diseases
- Impact of Environment, Food Conservators & Antibiotics on the quality and biodiversity of microbiota
- Can we modulate the diversity and quality of microbiota?
- Skin Microbiota: Recent advances on its characterization and manipulation in diseased conditions
- Fecal Microbiota Transplantation: Practical Issues & Regulation

**Workshop: Exploration & Sequencing of Human Microbiota: The perfect signature**

All you need to know about the recent methods, devices and platforms will be presented during this workshop, organized on October 21.

To conclude this congress, a general discussion will be held between speakers, scientists and industry sector about Microbiota and medicine of tomorrow. Among questions which will be discussed:

- Can one strain fit with all populations?
- To date, the most relevant challenge: can we modulate and manipulate the human gut microbiota?
- How diet, food, antibiotics, hormones, prebiotics and faecal microbiota can affect resident microbiota?
- How to avoid speculations and marketing on microbiota not supported by actual data?

We look forward welcoming you during Targeting Microbiota congress.

Dr Yuri Ikeda – Dr Marvin Edeas
Chairmen of the International Society of Microbiota
The scientific committee of the International Society of Microbiota (ISM) dedicates a workshop on *Exploration & Sequencing of Human Microbiota: The Perfect Signature*. All you need to know about microbiome and microbiota, studies, analysis, devices, recent methods and platforms will be presented during the workshop organized on October 21, at Institut Pasteur. One of the critical questions which will be discussed is how to interpret these analyses?

The scientific committee of ISM invites the academics and the industrials to present their innovations. Without the innovations coming from the industrial side, we cannot translate the fundamental researches undertaken by clinicians and academics.

During Pasteur workshop, a special timing will be allocated to industrials to present the methods and devices to analyze and sequence the microbiota. Among the industrials who will participate to this session: Libragen, Genoscreen, Lifesequencing, DNAVision, Vaiomer...

Among the strategic questions which will be discussed:

- All steps you need to know to study microbiota: from faecal extraction to bioinformatics
- What are the recent and recent methods to sequence and analyze human microbiota?
- How to interpret the analyses? The strategic role of bioinformatics
- How to standardize protocols for exploring human microbiota? Focus on gut & skin microbiota
- Can we identify a specific signature of each person: towards a new era in personalized medicine?
- Can we talk about a revolution in medicine?

At the end of the workshop, the scientific committee will discuss the following questions:

- Can we manipulate microbiota?
- Can we talk about diversity and quality of microbiota?
- Microbiota or Metabolites: the subtle balance
Day 1: October 21, 2015

Workshop on Exploration & Sequencing of Human Microbiota: The Perfect Signature

Chairs: Hervé Blottière, Grégory Dubourg, Knut Rudi

7h30 Opening of Pasteur Institute – Your ID/Passport is request to access to congress

7h45 Registration & Welcoming for Workshop

8h55 Introduction Remarks by Chairpersons of International Society of Microbiota
Marvin Edeas, Yuri Ikeda, Miria Ricchetti

Microbiota/Microbiome: Steps & Methods

9h00 Introduction of ISM Workshop: Screening method to study host microbiota interactions in human intestine
Hervé Blottière, MetaGenoPolis, France

10h00 Culturomics and pyrosequencing: two complementary techniques to study the gut microbiome
Grégory Dubourg, Université de Marseille, France

10h45 Coffee Break & Network Session

11h15 Rectal Swabs for Analysis of the Intestinal Microbiota
Anat Eck, VU Medical Center, The Netherlands

What we can learn from microbiota analysis and how to apply this to animal health?

11h45 Dynamic interactions of the equine hindgut microbiota in health and disease
Knut Rudi, Norwegian University of Life Sciences, Norway

12h15 Discussion: The Academic Point of View

12h45 Lunch Break & Network Session

Clinical & Industrial Innovations

14h00 Why should we care about primers and platform in microbiota analysis?
Francisco Codoñer, Lifesequencing, Spain

14h30 Evolution and challenges of NGS technologies for microbiota analysis and their validation for diagnostic
Sébastien Massart, DNA Vision, Belgium

15h00 16S sequencing analysis: comparison between RSII PacBio versus Illumina MiSeq
David Vilanova, Bioinformatics & Bioanalysis Director, Libragen, France

15h20 Coffee Break & Network Session

15h50 Important Considerations for Robust and Unbiased DNA and RNA Sample Prep for Microbiome Studies
Sandrine Miller, MO BIO Laboratories, USA

16h10 Practical aspects of microbiota and kidney diseases: how to evaluate the impact of microbiota variations on
hemodialysis patients?
Mokthar Chawki, Clinique du Parisis, France

16h20 Presentation of ISM Open Access Journal & ISM Platform
Yann Saint-Georges Chaument, International Society of Microbiota, France

16h30 Discussion: The academic versus the industrial point of view

17h00 Concluding remarks

17h15 End of the first day

14h30 – 17h30 Registration for days 2 & 3 – Posters Installation
Day 2: October 22, 2015

7h45  Registration – Posters Installation

Session 1: Recent Advances on Microbiota Researches & Innovations in 2015

Chairs: Marvin Edeas, Yuri Ikeda, Liping Zhao

8h55  Welcome Remarks by Marvin Edeas, Serguei Fetissov, Yuri Ikeda, Miria Ricchetti

9h00  Microbiota 2015: Towards a revolution?
Marvin Edeas, Chairman of the Scientific Committee, France

9h25  The gut microbiota & obesity: from correlation to causality
Liping Zhao, Shanghai Jiao Tong University, China

9h50  Role of gut bacteria in host control of appetite
Serguei Fetissov, Rouen University, France

10h15  Modulation of host microbiota by Listeria monocytogenes
Javier Pizzaro-Cerda, Institut Pasteur, France

10h40  Coffee Break, Posters & Exhibition Session

Chairs: Lorenzo Drago, Serguei Fetissov

11h10  Role of gut microbiota in Parkinson’s disease
Filip Scheperjans, Helsinki University Central Hospital, Finland

11h35  Short Oral Presentations (5 + 2 minutes)

Prenatal stress and gut microbiota diversity in middle-pregnancy – future tool for screening prenatal stress exposure?
Henna-Maria Uusitupa, University of Turku, Finland

Bifidobacterium animalis subsp lactis CNCM-I2494 restores gut barrier permeability in chronically low-grade inflamed mice
Rebeca Martin, Probihot, Micalis Institute, France

Rational selection of lactobacillus strains based on bile salt hydrolase activity
Sarah Long, University College Cork, Ireland

Maternatl gestational stress-induced changes in gut microbiota correlate with alterations in the physiology of the adult offspring
Anna Golubeva, University College Cork, Ireland

Diet, gut inflammation and the microbiota: preventing autoimmune diabetes in the intestinal mucosa
Marika Falcone, San Raffaele Scientific Institute, Italy

Colonization of mice with Lactobacillus positive or negative human infant microbiota influences immune maturation in offspring
Dagbjort Helga Petursdottir, Stockholm University, Sweden

Minigut – a small volume colon model with increased throughput
Maria Wiese, University of Copenhagen, Denmark

12h35  Lunch Break, Posters & Exhibition Session

Session 2: Microbiota Signature & Predictive Medicine

Chairs: Ernst Holler, Javier Pizzaro-Cerda, Jacques Ravel

14h00  Cancer & microbiota: potential of fecal microbiota for early-stage detection of colorectal cancer
Iradj Sobhani, Hôpital Universitaire Henri Mondor, France
**14h25**  Taxonomic and functional metagenomic analysis of the airway samples from cystic fibrosis patients with lower and higher pulmonary function decline  
**Annamaria Bevivino**, ENEA Casaccia Research Centre, Italy

**14h50**  Metagenomic analysis of the microbiota in patients receiving allogeneic SCT: Role of harmful versus protective microbiota and the impact of antibiotic prophylaxis and treatment  
**Ernst Holler**, University Medical Center, Germany

**Targeting Skin Microbiota**

**15h15**  Lactobacillus salivarius LS01 and Bifidobacterium breve BR03 combination in atopic dermatitis: which evidences?  
**Lorenzo Drago**, University of Milano, Italy

**15h40**  Extended Break for Posters & Exhibition Session

**Targeting Vaginal Microbiota**

**16h40**  The interactions between the host, the vaginal microbiota and sexually transmitted infections  
**Jacques Ravel**, Institute for Genome Sciences, University of Maryland School of Medicine, Baltimore, USA

**17h05**  The impact of erythromycin on the vaginal microbiome in women with preterm premature rupture of the fetal membranes (PPROM)  
**David Macintyre**, Imperial College London, United Kingdom

**17h30**  Short Oral Presentations (5 + 2 minutes)

- Identification of blood bacterial profiles associated with liver fibrosis in obese patients  
  **Benjamin Lelouvier**, Valomer, France

- Anaerobically Cultivated Human Intestinal Microbiota  
  **Att-La Dahlgren**, Karolinska Institutet, Sweden

- Antibiotic effect monitoring using metagenomic signatures  
  **Dmitry Alexeev**, Research Institute of Physico-Chemical Medicine, Russian Federation

- SYN-004, a novel strategy to protect the gut microbiome from the deleterious effects of residual IV β-lactam antibiotics  
  **John F. Kokai-Kun**, Synthetic Biologics, USA

- Does the gut microbiome affect mucosal immune activation and intrarectal susceptibility to shiv acquisition in naive rhesus macaques?  
  **Yongjun Sui**, National Cancer Institute, National Institutes of Health, USA

- Association of gut microbiota and host serum cholesterol  
  **Orawan La-Ongkham**, Kasetsart University, Thailand

- Microbially mediated bile alterations affects host metabolism  
  **Susan Anne Joyce**, APC microbiome Institute, Ireland

- Oral supplementation with l-glutamine alters gut microbiota and pro-inflammatory cytokines of obese and overweight subjects  
  **Patricia Prada**, Unicamp, Brazil

- Bacterial community modulate behaviors of eukaryotic organisms: new perspectives in restoration of threatened coral reefs  
  **Catalina Arevalo Ferro**, National University of Colombia, Colombia

**18h30**  End of the Second Day

**19h45**  Bus Pick-up for Targeting Microbiota Dinner – in front of Pasteur Institute

**20h30**  Targeting Microbiota Dinner in a typical French restaurant  
**Hotel Scribe** – 1 rue Scribe – 75009 Paris

*If you would like to participate, please contact the secretary desk before 10:00.*
Day 3: October 23, 2015

 Chairs: John-Olov Jansson, Harry Sokol

 Session 3: Fecal Microbiota Transplantation: Practical Issues & Regulation

 9h00  Fecal Microbiota Transplantation: recent scientific data
        Harry Sokol, Hôpital Saint Antoine, France

 9h25  Fecal microbiota in pediatric inflammatory bowel disease and its relation to inflammation
        Katri Korpela, Helsinki University, Finland

 9h50  Juristical hurdles and possibilities for companies providing faecal transplant services
        Andreas Schwiertz, MVZ Institut für Mikroökologie, Germany

 10h15 Business, regulatory & clinical challenges in commercializing a next-generation FMT drug for recurrent Clostridium Difficile Infection: A US Perspective
        Lee Jones, Rebiotix, USA

 Session 4: The Microbiota Role in Health & Diseases – Perspectives & Strategies

 Microbiota & HIV Infection

 10h25  Major shifts in the gut microbiota associated with HIV infection
        Gregory Dubourg, Université de Marseille, France

 10h50  Extended Break for Posters & Exhibition Session

 Microbiota & Celiac Diseases

 11h50  Gut microbiota: novel & strategic players in celiac disease pathogenesis
        Elena F. Verdu, McMaster University, Canada

 12h15  Short Oral Presentations (5 + 2 minutes)

 Enteric Dialysis-stabilization of the gut microbiome using probiotics and prebiotics (gut-kidney connection)
        Natarajan Ranganathan, Kibow Biotech, USA

 Contribution of human gut microbiota metabolism in anti-inflammatory activities of ellagitannin-rich medicinal plants
        Jakub P. Piwowarski, Medical University of Warsaw, Poland

 Microbial communities of early-stage Crohn’s disease tissues
        Claire Louise O’Brien, Canberra Hospital and Australian National University, Australia

 Cocoa bioactives, gut microbiota and mitochondria
        Ivan Petyaev, Lycotec, United Kingdom

 12h45  Lunch Break, Posters & Exhibition Session

 Microbiota & Metabolic Diseases

 Chairs: Rémy Burcelin, Premysl Bercik, Miria Ricchetti

 14h00  Tissue microbiota, the next generation paradigm of metabolic disease
        Rémy Burcelin, Inserm U1048, France

 14h25  Regulation of body fat mass by the gut microbiota: possible mediation by the brain
        John-Olov Jansson, Sahlgrenska Academy at Gothenburg University, Sweden

 14h50  Pancreatic beta-cells limit autoimmune diabetes: strategic role of gut microbiota
        Julien Diana, Inserm, Université Paris Descartes, France

 Microbiota & Depression
15h15  The link between depression and gut microbiota
Premysl Bercik, MacMaster University, Canada

15h40  Coffee Break, Posters & Exhibition Session

16h10  Short Oral Presentations (5 + 2 minutes)

Use of microbial networks as a strategy to recover from gut dysbiosis
Massimo Marzorati, Ghent University, Belgium

Impact of a dysbiosis corrector on gut microbiota from adult blood siblings
Marisela Gonzalez Avila, Centro de Investigación y Asistencia en Tecnología y Diseño, Mexico

Manipulating the human microbiome using polyphenol rich foods, supplements, and prebiotics, coupled with avoidance of major dietary lectins reverses endothelial dysfunction
Robert Steven Gundry, The International Heart and Lung Institute, USA

New insights into post-infectious sequelae: enteropathogen-induced disruptions of human gut mucosal microbiota biofilms cause intestinal inflammation
Gerald Andre Buret, University of Calgary, Canada

Antibacterial mouthwash blunts oral nitrate reduction and increases blood pressure in treated hypertensive men and women
Catherine Bondonno, University of Western, Australia

The effects of Clostridium Ramosum on enterohaemorrhagic Escherichia Coli O157:H7
Yukako Koyanagi, Tohoku University, Japan

The microbiota shifts the iron sensing of intestinal cells
Muriel Thomas, INRA, France

Methods for improving human gut microbiome data by reducing variability through sample processing and storage of stool
Deanna Gibson, University of British Columbia, Canada

Pancreas insufficiency in cystic fibrosis patients drives a different fecal microbiota and metabolic phenotype
Valerio lebba, Sapienza University of Rome, Italy

The gut microbiota regulates murine cardiac transplant outcome
Elizabeth Lauren Hittle, University of Maryland School of Medicine, United States

Yogurt de Pajaritos, a Chilean kefir with properties of interest for individuals lactose intolerance and osteoporosis, and its potential applications on human health
Alejandro Miguel Dinamarca, Universidad de Valparaiso, Chile

17h30  Microbiota 2015: Personnal Point of View & Vision
Iradj Sobhani, Hôpital Universitaire Henri Mondor, France

17h30  General Discussion of Targeting Microbiota 2015
In the presence of Organizers & Speakers from scientific committee

Presentation of ISM Open Access Journal & ISM Platform – Call for Abstracts

Remarks by the chairs & Targeting Microbiota 2015 Awards

17h45  End of Targeting Microbiota 2015
For all request concerning demonstrations, exhibition and general information, please contact:

John Edwards – Erica Takayama

Targeting Microbiota 2015 – International Society of Microbiota

Tokyo Office: Kanaya Bldg 4F, 4-11-3, Hatchobori Chuo-ku, 104-0032 Tokyo, Japan
Paris Office: 15 rue de la Paix – 75002, Paris

www.microbiota-site.com

Microbiota@microbiota-site.com