



International Society of Microbiota

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



International Society of Microbiota

Targeting Microbiota 2015 Towards Clinical Revolution

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

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



International Society of Microbiota

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

October 21, 2015 – Institut Pasteur - Paris

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



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3rd World Congress on Targeting Microbiota

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

- Agenda -

Day 1: October 21, 2015

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

Chairs: Hervé Blotière, 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 Blotière, 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 Paris, France

16h20 Presentation of ISM Open Access Journal & ISM Platform
Yann Saint-Georges Chaumet, 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

Maternal 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



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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, Vaiomer, France

Anaerobically Cultivated Human Intestinal Microbiota
Atti-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.



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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**
Grégory 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 Iebba, 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: Personal 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



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**For all request concerning demonstrations,
exhibition and general information, please contact:**

John Edwards – Erica Takayama

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