

A large, stylized DNA double helix graphic that frames the central text. The helix is rendered in a dark blue color and is positioned behind the main title.

2010 MetaHIT

International Conference
on Human Metagenomics

Program

March 1-3, 2010
Shenzhen, China



First International Conference on Human Metagenomics

March 1st 2010

MetaHIT International Conference Program

- 9:00-15:00** *Registration*
- 12:30** *Lunch*
- 14:30** **Welcome**
- 14:40 – 14:55** Welcome speech and introduction by local government
Chair : Jane PETERSON (NIH, USA)
- 14:55 – 15:15** **Christian DESAINTEs** (European Commission)
Introduction
- 15:15** **Microbial Composition**
- 15:15 – 15:45** **Sarah HIGHLANDER** (Baylor College of Medicine, USA)
Reference genome selection and sequencing and for the HMP
- 15:45 – 16:15** **George WEINSTOCK** (Washington U., USA)
Microbiome investigations with shotgun sequencing
- 16:15 – 16:45** *Coffee Break*
- Chair : Claire FRASER-LIGETT** (U. Maryland School of Medicine, USA)
- 16:45 – 17:15** **WANG Jun** (BGI Shenzhen, China)
High-throughput sequencing based metagenomics: A new trail for
human microbiomes research
- 17:15 – 17:45** **Clara DAVIS LONG** (Stanford U., USA)
The human oral microbiome : Understanding human health with
ecology
- 17:45 – 18:15** **Jacques RAVEL** (U. Maryland School of Medicine, USA)
The temporal dynamics of the human vaginal microbiota
- 18:15 – 18:30** **Fang YANG** (Sun Yet-sen University, China)
Metagenomic analyses of saliva microbiotas from caries-sensitive
patients and healthy controls
- 19:30** *Diner*

Shenzhen, China – March 1-3 2010

The meeting will take place in the Ballroom, on the third floor.

March 2nd 2010**9:00 Microbial Profiling****Chair : George WEINSTOCK** (Washington U., USA)**9:00 – 9:30****Junjie Qin** (BGI Shenzhen, China)

Data, Information, Knowledge and Application– Research into Human Gut Metagenome

9:30 – 10:00**Søren BRUNAK** (Technical U. of Denmark, Denmark)

Gut meta-transcriptomics

10:00 – 10:30**Rob KNIGHT** (U. Colorado, USA)

Defining a core human microbiome

10:30 – 10:45**Anne SALONEN** (U. Helsinki, Finland)

Comparative evaluation of fecal DNA isolation methods using phylogenetic microarray

10:45 – 11:00*Coffee Break***11:00****Data organization and analysis****Chair : Minoru KANEHISA** (U. Kyoto, Japan)**11:00 – 11:30****Peer BORK** (EMBL, Germany)

Comparative gut metagenomics

11:30 – 12:00**Jennifer RUSSO WORTMAN** (U. Maryland, USA)

A Data Analysis and Coordination Center for the Human Microbiome Project

12:00 – 12:30**Nikos KYRPIDES** (JGI, USA)

From genomes to metagenomes and back, to the future

12:30 – 12:45**Vineet K. SHARMA** (RIKEN, Japan)

iMetaSys: An integrated metagenomic and microbial systems analysis workbench.

12:45 – 15:30**Lunch & Posters session**

March 2nd 2010

- 15:30** **Clinical Studies I**
Chair : Liping ZHAO (Shanghai Jiao Tong U., China)
- 15:30 – 16:00** **Claire FRASER-LIGETT** (U. Maryland School of Medicine, USA)
The human gut microbiome and obesity in the old order amish
- 16:00 – 16:30** **Oluf PEDERSEN** (Hagedorn Research Institute, Denmark)
Clinical study: Search for correlations between distal gut microbiota and obesity
- 16:30 – 17:00** **Karine CLEMENT** (INSERM, France)
Gut microbiota in weight variation programs; the French experience
- 17:00 – 17:30** *Coffee break*
- Chair : Oluf PEDERSEN** (Hagedorn Research Institute, Denmark)
- 17:30 – 18:00** **Liping ZHAO** (Shanghai Jiao Tong U., China)
Re-engineering of gut microbiota with traditional Chinese medicinal foods for early prevention of the metabolic syndrome
- 18:00 – 18:30** **Francisco GUARNER** (Hospital Vall d'Hebron, Spain)
Microbiota and intestinal inflammation
- 18:30 – 19:00** **Janet JANSSON** (Lawrence Berkeley Natl. Lab., USA)
Multi-omics of the intestinal microbiome
- 19:15** *Diner*
- After dinner** *Optional visit to BGI – participants interested in the visit must register with the conference team.*

March 3rd 2010

9:00 Clinical Studies II

Chair : Francisco GUARNER (Hospital Vall d'Hebron, Spain)

9:00 – 9:30

James VERSALOVIC (Texas Children's Hospital, USA)

The intestinal microbiome in children: Comparisons with adults

9:30 – 10:00

Raish OOZEER (Danone Research, France)

Towards the identification of microbes involved in Irritable Bowel Syndrome (IBS): Analysis of gut microbiota of constipated-type IBS subjects following the consumption of a fermented milk containing *Bifidobacterium lactis* DN-173010

10:00 – 10:30

Natalia BORRUEL (Hospital Vall d'Hebron, Spain)

Probiotics in Inflammatory Bowel Diseases (IBD)

10:30 – 10:45

Marie-France de la COCHETIERE (INSERM, France)

Importance of resident intestinal microbiota impact assessment in our understanding of diseases development : Risk factors evaluation

10:45 – 11:00

Coffee break

11:00 – 12:30

New sequencing Technologies

11:00 – 11:30

Roche

11:30 – 12:00

Illumina

12:00 – 12:30

Applied Biosystems

12:30 – 12:45

Group picture

12:45 – 15:00

Lunch & Posters session

March 3rd 2010

15:00 Functional Studies

Chair : Mark MORRISON

15:00 – 15:30 Harry FLINT (Rowett Institute, UK)
Microbial metabolism in the gut: Functional groups within the microbial community of the human colon

15:30 – 16:00 Joël DORE (INRA, France)
Functional metagenomic of the human intestinal microbiota

16:00 – 16:30 Per BRANDTZAEG (U. Oslo, Norway)
Commensal bacteria and secretory immunity are two mutual determinants of immunological homeostasis

16:30 – 17:00 *Coffee break*

17:00 Future

Chair : WANG Jun (BGI Shenzhen, China)

17:00 – 17:30 Julian PARKHILL (Wellcome Trust Sanger Institute, UK)
Extremes of sequencing: Sampling populations and single cells with new technologies

17:30 – 18:00 Minoru KANEHISA (U. Kyoto, Japan)
From metagenomes to pathways and diseases

18:00 – 18:15 S. Dusko EHRlich (INRA, France)
Concluding remarks and perspective

19:00 *Banquet dinner*

Organizers



Sponsors



*This meeting was jointly organized by
the MetaHIT management team (INRA Jouy en Josas, France)
and the BGI Conference team (Shenzhen, China) :*

Cai Bihua

Chen Ye

Dai Wenkui

Dong Zirui

Emilie Etienne

Florence Haimet

Li FeiFei

Li Xiaohui

Liu Yuan

Wang Xiaoyan

Wang Weiwei

Wang Yayu

Wu Xuan

Yohanan Winogradsky

Xie Lihua

Zeng Xian

Zhao Wenhua

Zhou Guanyu

Zhu Zimin

The meeting will take place in the Ballroom, on the third floor.