



Food and Agriculture
Organization of the
United Nations

WGS

Technical Meeting on the impact of **Whole Genome Sequencing** on food safety management within a One Health framework

THE **9th** MEETING OF THE GLOBAL MICROBIAL IDENTIFIER* (GMI9)

23-25 May 2016
FAO Headquarters, Rome, Italy

Welcome

to the Technical Meeting on the impact of **Whole Genome Sequencing** on food safety management

THE **9th** MEETING OF THE GLOBAL MICROBIAL IDENTIFIER

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Once you enter the gate of the FAO headquarters and collected your building pass, follow the sign "Technical Meeting on the impact of Whole Genome Sequencing (WGS) on food safety management".

Meeting room

THE RED ROOM (A-121 INT)

There are six buildings in the FAO Headquarters Complex, all interconnected. The Red room is on the first floor in Building A. The meeting room will be open from 8.00 hrs and the meeting will start at 8:30 hrs.

MEDICAL SERVICE

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Food services

FAO CAFETERIA

Located on the 8th floor of Building B, is available to participants from 12:00 to 14:30 for lunch.

FAO RESTAURANT

Located on the 8th floor of Building C, offers a daily menu and a la carte service. Call 06-570-56823 for reservations.

SNACK BARS

There are several snack bars on the premises, offering hot and cold beverages and a variety of pastries and sandwiches: Polish Bar (Ground Floor, Building A), Blue Bar (8th Floor, Building C), 8th Floor Bar (8th Floor, Building B) and Casa Bar (Ground Floor, Building D).

VENDING MACHINES

Machines for drinks and snacks are located at various points throughout the premises, including the 2nd Floor of Building A and the Ground Floor of Building B.

* **Global Microbial Identifier** (GMI, <http://www.globalmicrobialidentifier.org/>) is a platform for storing whole genome sequencing (WGS) data of microorganisms, for the identification of relevant genes and for the comparison of genomes to detect outbreaks and emerging pathogens.

WGS Technical Meeting on the impact of Whole Genome Sequencing on food safety management

agenda

THE 9th MEETING OF THE GLOBAL MICROBIAL IDENTIFIER

MONDAY
23
MAY

FAO session

08:30 - 08:45	Opening remarks	Ren Wang, Assistant Director General, Agriculture and Consumer Protection Department, FAO
08:45 - 09:00	Objectives of the Technical Meeting	Masami Takeuchi, Food Safety Officer, FAO
09:00 - 09:45	Whole Genome Sequencing (WGS) – how significant is it to food safety? (Presentation of the FAO technical paper)	Celine Nadon, PHA, Canada
09:45 - 10:00	Discussion	
10:30 - 12:00	Panel discussion on benefits and potential drawbacks of WGS	
13:30 - 14:00	Step-by-step approach in considering WGS as a tool for food safety management – practical feasibility assessment	
14:00 - 15:00	Panel discussion on Considerations for developing countries	
15:30 - 16:45	Panel discussion on global actions and a way forward	
16:45 - 17:00	Closing remarks and a way forward	Markus Lipp, Senior Food Safety Officer, FAO

Introduction

08:30 - 08:40	Overview of the GMI initiative and its working groups	Jorgen Schlundt, NTU, Singapore
08:40 - 09:00	FAO/WHO initiatives on WGS for food safety including the summary of Day 1	Masami Takeuchi, FAO

Active system

09:00 - 09:15	NCBI pipeline	Bill Klimke, NCBI, USA
09:15 - 09:30	EBI – building the database with international isolates	Guy Cochrane, EMBL, Eur. Bioinformatics Institute, UK
09:30 - 09:45	Application of WGS in the industry	Alex van Belkum, Biomérieux
09:45 - 10:00	Genome Trakr	Eric Brown, FDA, USA

Identification/characterization – global capacity

10:30 - 10:45	Web applications for rapid microbial taxonomy identification	Ole Lund, DTU, DK
10:45 - 11:00	Middle East Respiratory Syndrome (MERS) / Ebola / Norovirus – WGS developments	Marion Koopmans, Erasmus, NL
11:00 - 11:15	The GMI Proficiency Test	Rene Hendriksen, DTU, DK
11:15 - 11:30	Building bioinformatics resources for the global community	James Pettengill, FDA, USA
11:30 - 12:00	Discussion	

Break-out session 1

13:30 - 13:45	Introduction to the break-out sessions: working group approach	Jorgen Schlundt, NTU, Singapore
13:45 - 15:00	Working groups WG1: Nigeria Room (C-215) WG3: Ethiopia Room (C-285/9) WG2: India Room (A-327/9) WG4: Philippines Room (C-277/281)	

Epidemiology and surveillance

15:30 - 15:45	Real-Time Genome Sequencing of Resistant Bacteria Provides Precision Infection Control in an Institutional Setting	Dag Harmsen, University of Münster, Germany
15:45 - 16:00	The path to implementation of WGS in PulseNet	Peter Gerner-Smidt, CDC, USA
16:00 - 16:15	Tracking resistance genes using NGS	Patrick McDermott, FDA, USA
16:15 - 17:00	Discussion	

International data sharing

08:30 - 08:45	Added Value of Open data sharing using examples from GenomeTrakr	Marc Allard, FDA, USA
08:45 - 09:00	Strengthening data sharing for public health – ethical, legal and political issues	Michael Edelstein, Chatham House
09:00 - 09:15	International challenges regarding the future sharing of sequence data	George Haringhuizen, RIVM, NL
09:15 - 09:30	WGS data sharing at OIE	Franck Berthe, OIE
09:30 - 09:45	WGS data sharing at FAO by the International Treaty on the plant genetic resources	Shakeel Bhatti, FAO and Jerome Reichman
09:45 - 10:00	Developing Global Norms for Data and Results Sharing During Public Health Emergencies	Cathy Roth, WHO

Metagenomics

10:30 - 10:50	Metagenomics – Investigations of complex microbiomes	Stephan Schuster, NTU, Singapore
10:50 - 11:10	Real time surveillance of the healthy population in Copenhagen, Denmark based on sewage	Rene Hendriksen, DTU, Denmark
11:10 - 11:30	Developing a national strategy to bring pathogen genomics into practice	Sobia Raza, PHG Foundation, UK
11:30 - 11:40	GMI10 (Mexico) and GMI11	Lourdes Simental Ocegüera, Mexico
11:40 - 12:00	Discussion	

Break-out session 2

13:30 - 15:00	Working groups WG1: Nigeria Room (C-215) WG3: Ethiopia Room (C-285/9) WG2: India Room (A-327/9) WG4: Philippines Room (C-277/281)	
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Closing session

15:30 - 16:30	Reporting back of the working groups	
16:30 - 17:00	Conclusion and a way forward	Jorgen Schlundt, NTU, Singapore

WEDNESDAY
25
MAY

Internet access



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