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

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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.

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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.

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agenda

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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*

TUESDAY 24 MAY

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: Philippines Room (C-277/281) WG2: India Room (A-327/9) WG3: Ethiopia Room (C-285/9) WG4: Nigeria Room (C-215)	

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	

WEDNESDAY 25 MAY

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 Oceguera, Mexico*
11:40 – 12:00	Discussion	

Break-out session 2

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

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*

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