10th Global Microbial Identifier Meeting

Global Microbial Identifier
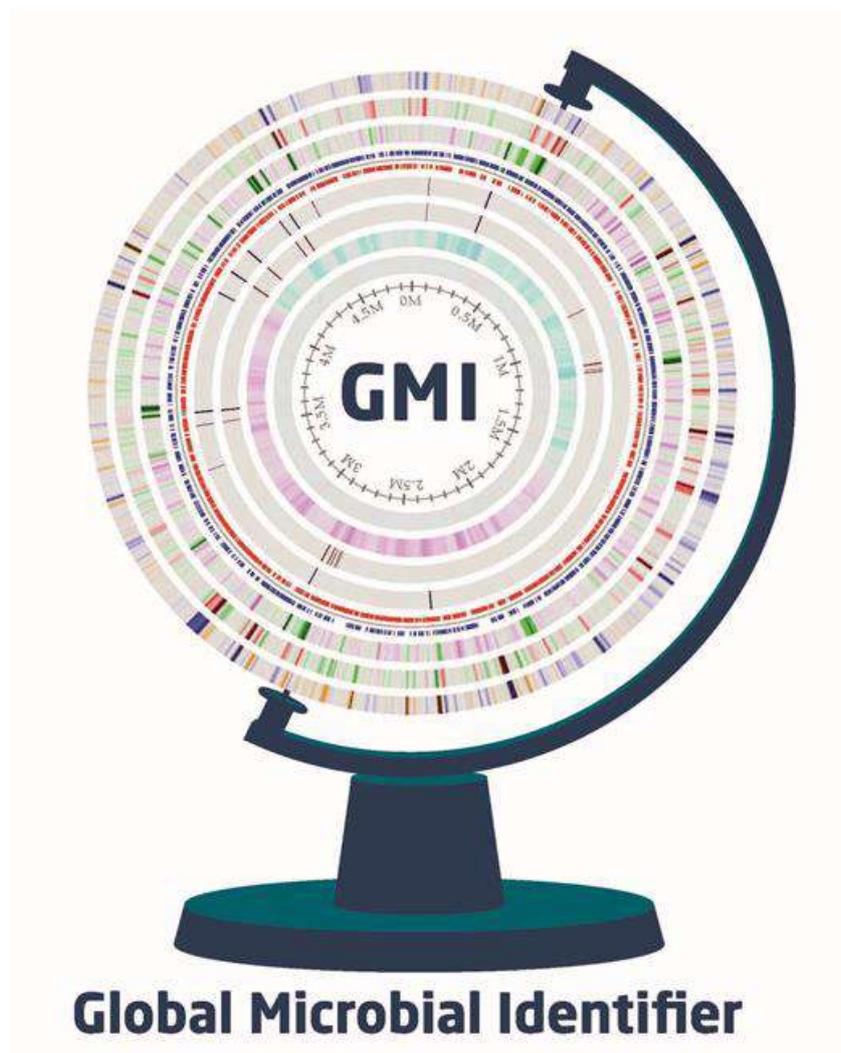
15 - 17 May 2017
Sheraton Hotel, Cabo San Lucas, Mexico

Day 1: Monday 15th May 2017

08:00-09:30 Inaugurate/Registration		
09:30-09:50	GMI History	Jorgen Schlundt, Nanyang Technological University Food Technology Centre (NAFTEC), Singapore
09:50-10:10	GMI Perspectives in Developing Countries	Lourdes Simental Oceguera, Inoquotech, MX
10:10-10:30	The Eleven Rivers Program: A Proposal of Mexico in Food Security	Georgius Gotsis Fontes, Eleven Rivers Growers, MX
10:30-11:00 Coffee Break		
GMI Developing Countries		
11:00-11:20	Epidemiological Research in Sinaloa	Saúl Beltrán Fernández, CIES-SSA, MX
11:20-11:40	Microevolution and Trait Diversity in Members of a Microbial Community: When a genotype is not enough to predict a phenotype	Gabriela Olmedo-Alvarez, Cinvestav Unidad Irapuato, MX
11:40-12:00	Vibrio Comparative Genomics from an Extraordinary Oasis in Mexico: Can we explain the origins of pathogenicity?	Valeria Souza, , UNAM, MX
12:00-13:30 Lunch		
Existing Platforms for Sequencing Analysis		
13:30-14:15	NCBI	William Klimke, NCBI, USA
14:15-15:30	EBI	Clara Amid, EBI, UK
15:30-16:00 Coffee Break		
16:00-16:30	EU/COMPARE Developments	
16:30-17:00	The Genome Institute of Singapore GERMS Bacterial Genome Browser Platform - bringing integration and intuitiveness to non-genomics collaborators	Swaine Chen, Genome Institute of Singapore, Singapore
17:00-17:30	Illumina Technology Advancements and Up and Coming Applications in Microbiology	Christiane Honisch Microbiology Markets, Illumina, USA
Conclusion of Day 1		

Day 2: Tuesday 16th May 2017

08:40-09:00	Welcome - NGS Developments - The Big Picture	Jorgen Schlundt, NAFTEC, Singapore
Active Systems and International Data Sharing		
09:00-09:20	The NCBI Pathogen Detection Isolates Browser and Rapid Typing of *Listeria* and *Salmonella*	William Klimke, NCBI, USA
09:20-09:40	Compare Data Platform	Clara Amid, EBI, UK
09:40-10:00	Report from WHO Meeting on WGS	Eric Stevens, USFDA, USA
10:00-10:30 Coffee Break		
Advances in the Use of WGS in Clinical Microbiology and Functional Genomics		
10:30-10:50	Focused Amplicon Sequencing for Clinical Applications: Drug Susceptibility Testing of *Mycobacterium tuberculosis* from Patient Specimens	Paul Keim, Pathogen and Microbiome Institute, USA
10:50-11:10	Genomic Insights into an Outbreak of Group B *Streptococcus*	Swaine Chen, Genome Institute of Singapore, Singapore
11:10-11:30	Implementation of Genomics in Public Health - US Advanced Molecular Detection Program	Duncan MacCannell, US CDC, USA
11:30-11:50	Use of NGS in Clinical Microbiology	Randall Olsen, Molecular Diagnostics Laboratory, Houston Methodist Hospital, USA
11:50-12:10	The Role of NGS in Driving Modern Functional Genomic Studies of Pathogens/Microorganisms	Maria Hoffmann, USFDA, USA
12:10-13:30 Lunch		
13:30-16:00	Juridical and Ethical Joint Interactive Discussion of Obstacles/Problems/ Opportunities of Sharing Microbial Genetic Resources	George Haringhuizen, WG 1 of GMI
16:00-16:30 Coffee Break		
	NGS future – GMI Ring tests – Models for assessing effect of NGS introduction	
16:30-16:50	GMI Proficiency Testing - Bacteria	James Pettengill, USFDA, USA; Oksana Lukjancenko, Technical University of Denmark, DK
16:50-17:10	GMI Proficiency Testing - Virus	Andreas Nitsche, Robert Koch Institute, Germany
17:10-17:30	Development of a Model of Public Health and Economic Benefits of GMI-related Technology and Information Sharing to Support Decision-making for Preventative and Rapid Response	Greg Paoli, Risk Sciences International, Canada
Conclusion of Day 2		

Day 3: Wednesday 17[h] May 2017

	NGS in One Health	
08:30-08:50	An Important and Current Role for WGS in Augmenting the US FDA's Food Safety Efforts	Eric Brown, Division of Microbiology, USFDA, USA
08:50-09:10	The Metataxonomics with Full-length 16s rRNA Sequencing as a New Tool for Etiological Investigation	Jianguo Xu, China CDC, China
09:10-09:30	WGS in US foodborne Outbreak detection and response and the rise of retrospective Outbreak Investigations	Jennifer Beal, CORE Network, USFDA, USA
09:30-09:50	Outbreaks with Foodborne Pathogens from a One Health Perspective	Heather Carleton, US CDC, USA
09:50-10:20 Coffee Break		
Advances in Metagenomics – Advances in Global Surveillance Based on NGS		
10:20-10:40	Metagenomics, from Research Tool to Routine Diagnostics	Robert Schlaberg, University of Utah, USA
10:40-11:00	Global Sewage Surveillance	Oksana Lukjancenko Technical University of Denmark (DTU Food), DK
11:00-11:20	Virome Analysis for Sewage Surveillance	Bas Oude Munnink, Erasmus University Medical Center, Netherlands
11:20-11:40	Metagenomics and the Study of Aquatic Microbial Communities	Ana María Rivas Montano, Technological Institute of Mazatlan, MX
11:40-12:00	(Meta) genomic Mining of Bacterial Consortia: Exploiting EvoMining in sub-community co-cultures (EcoMining)	Francisco Barona-Gomez, Angélica Cibrián-Jaramillo, Langebio, Cinvestav-IPN, MX
12:00-13:30 Lunch		
13:30-15:30	Break-out Session	
15:30-16:00 Coffee Break		
16:00-16:15	WG1 Outcome	Jorgen Schlundt, NAFTEC, SG
16:15-16:30	WG2 Outcome	William Klimke, NCBI, USA
16:30-16:45	WG 3 Outcome	Heather Carleton, US CDC, USA
16:45-17:00	WG 4 Outcome	James Pettengill, USFDA, USA
17:00-17:30	Concluding Discussion	
Conclusion of Day 3		