



Program-at-a-Glance  
23rd Genomic Standard Consortium Meeting Bangkok Thailand  
Genomic Standards for Precision Medicine, Agriculture,  
Comparative Genomics, and Metabolomics

Location: Siriraj Hospital Mahidol University and the National Center for Genetic Engineering and Biotechnology



	Tuesday 8th Aug	Wednesday 9th Aug	Thursday 10th Aug
9:00	Welcome, Open GSC22, Introduction to the GSC	Daily announcements	Daily announcements
9:15			Dawn Field Awardee Presentation: Montana Smith
9:30	Keynote: Genotype First- in Research and In Clinical Care - Leslie Biesecker (NIH/NHGRI, USA)	Keynote: Standards in Metabolomics - Claire O'Donovan (EMBL-EBI, UK) [virtual]	5.1. GSC Compliance and Interoperability Working Group Update - Ramona Walls / Chris Hunter
9:45	1.1. Curating Clinical Genomes: Real World Practice of Human Genome Variant Interpretation - Manop Pithukpakorn	3.1. Mass spectrometry-based metabolomics standards in clinical research- Sakda Khoomrung (Siriraj Hospital Mahidol University, Thailand)	5.2. A Social and Technical implementation of LinkML by GSC and NMDC - Mark Miller (LBNL)
10:00	1.2. Human Cell Atlas: Putting together reference transcriptomes of all human cells - Varodom Charoensawan	3.2. Advancements in NMR Metabolomics: Enhancing Sample Handling and Metabolite Identification - Jutarop Phetcharaburanin	5.3. UroBiome new MixS extension - Lisa Karstens (Oregon Health & Science University) [virtual]
10:15	1.3. FAIR Principles - Susanna-Assunta Sansone	3.3. Metabolomics for agriculture applications - Umaporn Uawisetwathana	6.2. Measurement Assurance for Innovation in Microbiome Science - Scott Jackson (NIST)
10:30	S.1. GSC23 Platinum Sponsors talk: Oxford Nanopore [Thidathip Wongsurawat, Title: Oxford Nanopore - Game-changer in Epigenetics]	3.4. Metadata Informed Metabolomics - Yuri Corilo	S.5. GSC23 Platinum Sponsors talk: GenePlus [Speaker: Svetta Kwan (ThermoFisher), Title: The Impact of Rapid Next-Generation-Sequencing on Precision Oncology.]
10:45		S.3. GSC23 Platinum Sponsors talk: Waters [YanTing Lim, Title: Waters' solutions for Omics Analysis]	
11:00	Tea, Coffee & Networking		Tea, Coffee & Networking
11:15		Tea, Coffee & Networking	
11:30	2.1. Journal perspective: Gigascience - Chris Hunter (UK)		6.1 The Global Biodata Coalition: towards a sustainable biodata infrastructure - Chuck Cook (GBC, UK)
11:45	2.2. Database perspective: EBI Resources – Peter Woollard (ENA, EMBL-EBI, UK)	4.1. Standardization of next-generation sequencing method to study gut microbial diversity in shrimp - Wanilada Rungrasamee	6.2 Gut microbiota alteration associated with SLE (systemic lupus erythematosus) development - Naraporn Somboonna (Chulalongkorn University, Thailand)
12:00	2.3. Database perspective: The DDBJ resources based on standards - Kyung-Bum Lee (Japan)	4.2 Establishing Standards for Complex Low Biomass Microbiome Samples. Scott Tighe (University of Vermont)	6.3. Microbial Comparative Genomics (MGE Standards: viruses and plasmids) - Nikos Krypides (JGI)
12:15	2.4. Database perspective: National Genomics Data Center - Yiming Bao (China) [virtual]	4.3. Obligate insect symbionts: insights from new genome sequences and possible standards for these tiny genomes- Tanja Woyke (JGI),	6.4. Towards producing representative genome catalogues for microbial communities - Rob Finn (EBI)
12:30	S.2. GSC23 Platinum Sponsors talk: PacBio [Zuwei Qian, Title: Shifting paradigms with PacBio HiFi sequencing]	4.4. Intergalactic Microbes: Uncovering the Invisible Co-Pilots of Space Exploration - Kasthuri Venkateswaran (JPL, NASA)	6.5. The Genome Taxonomy Database (GTDB) initiative to establish a standardised microbial taxonomy - Phil Hugenholtz (Uni Queensland)
12:45	Group Photo	S.4. GSC23 Platinum Sponsors talk: Zymo [Kris Locken, Title: A Practical Guide to Microbiome Reference Standards]	
13:00			Handoff to GSC24 Tucson, Arizona
13:15	Lunch and Networking	Lunch and Networking	
13:30			Lunch and Networking
13:45			
14:00			
14:15		Working group sessions day 2: (3) NMDC Workshop, OR (4) Metabolomics Standards, OR (5) Standardised protocols	
14:30	Working group sessions: (1) GSC Compliance and Interoperability Working Group, OR (2) Standards in Personalised Medicine		Working group sessions day 3: (6) Standardising Open Microbiome Data analysis and workflow sharing to further federated resource development
14:45			
15:00			
15:15	Tea, Coffee & Networking	Tea, Coffee & Networking	
15:30			
15:45			
16:00		Working group sessions continued: (3) NMDC Workshop, OR (4) Metabolomics Standards, OR (5) Standardised protocols	
16:15	Working group sessions continued: (1) GSC Compliance and Interoperability Working Group, OR (2) Standards in Personalised Medicine		
16:30			
16:45			
17:00			

Mon	Student Education Day (8am - 1pm)
Aug 7th	Welcome to GSC23 Drinks Reception (All welcome)

All day Hands on Workshop - MGnify	Fri
All day Hands on Workshop - Nanopore Sequencing	Aug 11th