



AGENDA

21st Genomic Standards Consortium Meeting

**May 20th**

**9:00 -13:00** GSC Compliance and Interoperability working group session  
(open meeting to all GSC21 attendees)

**13:00-17:00** GSC Board meeting (GSC Board members)

**16:00-18:00**  Doors Open, GSC21

**18:00-18:45** **Keynote: Mining sequence data -- GTDB taxonomy**  
**Phil Hugenholtz- University of Queensland**

**18:45-22:00** Welcome Reception

**May 21st**

**9:00-10:30 GSC21 Day 1 Opening Session**  
9:00-9:45  
Welcome to GSC21 - University of Vienna  
Thomas Rattei and Craig Herbold - University of Vienna

The Genomic Standards Consortium : Expanding MIxS Genomic Minimal  
Information Standards and The National Microbiome Data Collaborative (NMDC)  
Lynn Schriml - President, Genomic Standards Consortium  
Institute for Genome Sciences, University of Maryland School of Medicine

9:50-10:10  
Toward unrestricted use of public genomic data.  
Nikos Kyrpides - DOE Joint Genome Institute

10:10-10:30  
Evolving standards for 4D omic observation: The Global Omics Observatory Network  
and the Microbial Essential Ocean Variable  
Pier Buttigieg - MPI-Bremen

**10:30-11:15** Coffee break and Posters

**11:15  Qiagen - GSC21 Gold Sponsor**  
Frank Schacherer -  VP Products and Solutions

**11:30-13:00** **Towards Addressing The Reproducibility Crisis Session**  
Folker Meyer, Session Chair  - Argonne National Laboratory

11:30-11:50  
Carol Goble - Manchester, UK

11:50-12:10  
EBI’s use of CWL workflows  
Rob Finn - EMBL-EBI

12:10-12:30 Discussion

**13:00**GSC21 Group Photo

**13:15-14:30** Lunch

**14:30-16:30 Afternoon Workshops & Working Group Sessions**

* Benchmarking
* Reproducibility
* GOs : Genomic Observatories
* GSCs role in developing MIGO - Minimum Information for Genomics Observatory

**16:30-17:00 Coffee and Posters**

**17:00-18:00**   University of Vienna historic main building tour

**18:00-18:45** **Keynote:**  **Biobanking BBMRI-ERIC**  
**Kurt Zatloukal** **- Medical University of Graz**

**May 22nd**

**9:00 Opening, GSC21 Day 2**

**9:10-10:30 Standards and Bioinformatics For Emerging Fields Of Genomics Session**  
Nikos Kyrpides - Session Chair - DOE Joint Genome Institute  
Scott Tighe - Session Chair - University of Vermont

9:10-9:30  
Standards for Biosynthetic gene clusters  
Michelle Schorn - Wageningen University, Netherlands

9:30-9:50  
GBOL - an ontology  enforcing consistent genome annotation using ShEx definitions  
Jasper Jan Koehorst - Wageningen University, Netherlands

9:50-10:10  
MIGO - Minimum Information for Genomics Observatory - role of GSC   
in developing these standards  
Neil Davies - Moorea, French Polynesia

10:10-10:30  
Characterizing Genomes of Rare and Novel Originals  
Scott Tighe - University of Vermont

**10:30-11:15 Coffee break**

**11:15 Phase Genomics - GSC21 Titanum Sponsor**  
Ivan Liachko - CEO Phase Genomics

**11:30-13:00 Metabolomics - Genomics Session**  
Claire O'Donovan - Session Chair - Head of Metabolomics, EMBL-EBI

11:30-11:50  
Integrating UniProt with the other ‘omics  
Maria Jesus Martin - Protein Function Development Team Leader, EMBL-EBI

11:50-12:10  
The metabolomics use case for the Enzyme portal  
Keeva Cochrane - Metabolomics team, EMBL-EBI

12:10-12:30  
The challenges facing the integration of metabolomics with the other omics and discussion  
Claire O'Donovan - Head of Metabolomics, EMBL-EBI

12:30-12:50  
The Mosaic Challenge  
Scott Jackson - National Institute of Standards and Technology

**13:00-14:30 Lunch**

**14:30-16:30 Afternoon Workshops & Working Group Sessions**  
**Virus taxonomy and standards**  
Simon Roux - DOE Joint Genome Institute

          14:30 - 15:00 Viral Metagenomics in the clinic - Jelle Matthijnssens  
          15:00 - 15:30 The long and the short of it: Cryptic and abundant viral  populations  
                                   revealed by long-read metagenomics

Joanna Warwick - University of Exeter  
          15:30   Roundtable: Measures and criteria for the definition of taxonomic ranks   
                       (across all domains of life + viruses)

**Compliance and Interoperabilty Workshop**  
            Ramona Walls - CyVerse

**18:00-18:45** **Keynote: Is predicting function from meta-omics data possible?**  
**Michael Wagner  - University of Vienna**

**May 23rd**

**9:00 Opening, GSC21 Day 3**

**9:15-10:30 Standards In Medical Genomics Session**  
Christoph Bock - Session Chair   
Research Center for Molecular Medicine of the Austrian Academy of Sciences

9:15-9:35 Christoph Bock

9:35-9:55 Manop Pithukipakorn - Faculty of Medicine Siriraj Hospital

**10:00-11:00** **Coffee break**

**11:00-12:00 Functional Annotation - From Sequence to Function Session**  
Michael Wagner - Session Chair - University of Vienna

11:00-11:20  
lluminating the functional dark side of genomics and metagenomics   
Antonio Fernandez - Max Planck Institute

11:20-11:40  
Function without sequence - Cyanate and urea as substrates for marine Thaumarchaeota  
Katharina Kitzinger - University of Vienna

**12:00 GSC22 Hand Off**

**12:30 Close GSC21 - Lunch**

**GSC21 Satellite Meetings**

**May 24, 2019:  Cyanobacteria Nomenclature and Taxonomy**[**Satellite Meeting**](http://gtdb.ecogenomic.org/gsc)  
**Organizers:**Phil Hugenholtz, Rochelle Soo  
In this satellite meeting we will discuss the current issues of the nomenclature in the Cyanobacteria, propose a phylogenetic framework and try to determine nomenclature rules for populating the structure. The meeting will consist of speakers, a discussion and an annotation jamboree.

**May 23-24, 2019: GOs/GLOMICON satellite meeting**  
The Global Omics Observatory Network (GLOMICON) - combining Microbial. Essential Ocean Variable (EOV) ontologies.

**Organizers:**Neil Davies, Pier Luigi Buttigieg, John Deck, Chris Meyer, Ramona Walls  
This satellite meeting will take place on afternoon of Thursday (23 May) and through Friday (noon or 5pm) 24 May. The agenda will address future directions of GOs Network and GLOMICON.