



Breakout session - WG11 Infectious Disease

1+MG / B1MG Stakeholder Forum

Chair: Katja Kivinen

Co-chair: Juan Arenas Márquez

04

WG11 - Infectious diseases

- WG11 was set up in late 2020
- Focus on Covid-19 but applicable to other use cases
- 15 countries represented
 - Belgium, Bulgaria, Denmark, Estonia, Finland, France, Germany, Greece, Italy, Latvia, Malta, Netherlands, Norway, Slovenia, Spain

WG11 - Objectives & Scope

- Strengthen European preparedness for pandemics
 - Connect infectious diseases experts with regional/national sequencing centres
 - Test a pan-European data sharing framework (Covid-19 as a test case)
- Identify suitable data sets for 1+MG & define use cases
 - WGS, WES, (genotyping) - Covid-19
 - Host + pathogen data
- Promote access to a (Covid-19) reference genome data set
 - Collaborate with Covid-19 Host Genetics Initiative & others
- Resolve bottlenecks in pathogen data management (& data standards)
 - e.g. SARS-CoV-2 data submission to Covid-19 data portal

WG11 - Where are we?

- Network of experts via WG
- Assessment of ELSI, Standards, Infrastructure needs
 - Mostly in line with other use cases (remember: host + pathogen data)
- Map of potential (Covid-19) WGS, WES data sets
- Open interaction with potential partners
 - Covid-19 HGI, BY-COVID, ISIDORE, Covid-19 data portal...

WG11 - near-future goals

- Pilot sharing Covid-19 host + pathogen data across Europe
- Data model for infectious diseases (Covid-19 as a test case)
- Funding to WGS/WES critical phenotypes - e.g.
 - Extreme phenotypes
 - Long Covid
 - Adverse reactions to drugs / vaccines

WG11 - Challenges (from 2021)

- Participant-level data may not follow shared standards
- Metadata has not been routinely collected
- Lack of connectivity between host & pathogen data
- Data sharing takes resources away from projects
- Interoperability takes resources away from projects
- Lack of recognition for working towards common goals instead of focusing on own research
- General lack of time whilst in the middle of a pandemic

Questions

- How can stakeholders from each use case help scale up and make the work of 1+MG/B1MG in data governance, data standards and technical infrastructural aspects sustainable?
- How can industry facilitate this process/ gaps industry can fill?

Slido

Go to www.slido.com from your phone or computer and enter the code below OR scan the QR Code to start answering the breakout questions

Infectiousdisease





Feedback

Breakout session - WG11 Infectious Disease

Chair: Katja Kivinen

Co-chair: Juan Arenas Márquez

ELSI & Data Governance: Which challenges to the scale up (within this Use Case) could be addressed by industry?



Anonymous

4 

data privacy



Anonymous

4 

Economically



Anonymous

3 

infrastructure solutions

ELSI & Data Governance: Which challenges to the scale up (within this Use Case) could be addressed by other stakeholders (please specify stakeholder)?



Anonymous

4 

data types, data use, sharing (content of use) (hospitals, patient organization)



Anonymous

2 

National initiatives



Anonymous

2 

Hospitals



Anonymous

2 

know what is the interest of host sequencing in infectious diseases

 [Back to top](#)

Data & Quality Standards: Which challenges to the scale up (within this Use Case) could be addressed by industry?



Anonymous

2 

Collaboration to recommend and use standards



Anonymous

1 

data sharing



Anonymous

1 

Sequencing capacity



Anonymous

1 

Definition of data standards

[↑ Back to top](#)

Data & Quality Standards: Which challenges to the scale up (within this Use Case) could be addressed by other stakeholders (please specify stakeholder)?



Anonymous

2 

Integration and linking of host and pathogen data (academia, scientific services, & hospitals!)



Anonymous

2 

availability of bioinformaticians

Technical Infrastructure: Which challenges to the scale up (within this Use Case) could be addressed by industry?



Anonymous

4 

Solutions for automation



Anonymous

4 

Technical experts



Anonymous

3 

cloud servers



Anonymous

3 

cibersecurity resources

Technical Infrastructure: Which challenges to the scale up (within this Use Case) could be addressed by other stakeholders (please specify stakeholder)?



Anonymous

3 

Sustainability (MS)



Anonymous

3 

metadata organization and interoperability (hospitals)



Anonymous

1 

sequencing devices in public health agencies

General recommendations



Anonymous

2 

funding for sequencing and data analysis (hospital, researchers)



Thank you!