

3rd ESCV workshop on Next Generation Sequencing: Advances in the use of metagenomics in Clinical Virology

DAY 1: Monday 23rd January 2023

9.00 – 9.10 Welcome by ESCV Executive and ENNGS
President Pamela Vallely, University of Manchester, Manchester (UK)

9.10-9.30 A short introduction to Next Generation Sequencing
Nathaniel Storey, GOSH, London (UK)

9.30-10.00 What can we learn from human genomics?
Speaker to be confirmed

10.00-10.30 COFFEE

Bioinformatics

10.30-11.00 Tools and recommendations for analysis of metagenomics data
Sofia Morfopoulou, University College of London, London (UK)

11.00-11.30 ENNGS network comparison of pipelines used for metagenomic virus detection
Jutte de Vries, Leiden University Medical Center, Leiden (NL)

11.30-12.00 In silico mock communities to test pipelines
Speaker to be confirmed

12.00-12.30 Panel and network discussion (Chair: Julianne Brown)

12.30-13.30 LUNCH

Setting up Clinical Services

13.30-14.00 Routine application of NGS in clinical virology laboratory in Switzerland
Michael Huber SW [Christophe Rodriquez, University of Paris, Paris (France)]

14.00-14.30 Recommendations for clinical metagenomics wet lab procedures
Xavier Lopez-Labrador, Spain

14.30-15.00 Quality control and metagenomics
Eric Class, Leiden University Medical Center, Leiden (NL)

15.00-15.30 Panel and network discussion (Chair: Xavier Lopez-Labrador)

15.30-16.00 COFFEE

16.00-17.00 Selected participant presentations: NGS in Clinical Setting

18.00 WALK/BUS TOGETHER TO THE DINNER

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DAY 2: Tuesday 24th January 2023

Clinical Applications

- 9.00-9.30 Metagenomics for the diagnosis of encephalitis
Julianne Brown, GOSH and University College of London, London (UK)
- 9.30-10.00 Use of nanopore to diagnose respiratory infections
Jonathan Edgeworth, Guys and St Thomas Hospital Trust, London (UK)
- 10.00-10.30 Use of NGS in emerging infectious diseases
Emma Thompson, University of Glasgow, Glasgow (UK)
- 10.30-11.00 Panel and network discussion (Chair: Christophe Rodriguez)

11.00 – 11.30 COFFEE

Future Challenges

- 11.30-11.50 The Kitome
Speaker to be confirmed
- 11.50-12.10 Clinical Interpretation of metagenomics – not all that glitters is gold
Nicole Fischer, Eppendorf University Medical Center, Hamburg (Germany)
- 12.10-12.30 Challenges and options for host depletion and pathogen enrichment
Kathryn Harris, Barts Health NHS Trust, London (UK)
- 12.30-13.00 Panel and network discussion (Chair: Judy Breuer)

13.00 – 14.00 LUNCH

ENNGS Update

- 14.00-15.00 ESCV Network for NGS: What next?
Jutte de Vries and Eric Class
- 15.00-15.15 End of meeting and farewell
ESCV Executive and Organising Committee