

**ESCV Workshop on Next Generation Sequencing
in Clinical Virology, Second Edition
University Botanical Gardens, Valencia, Spain, 24-25 June 2019**

Day 1, Monday June 24

9.00-9.15 Welcome by ESCV executive

Javier Buesa, University of Valencia Medical School, Valencia (ES)

Platforms, pre-analytical and analytical overview.

9.15-9.45 NGS platforms and applications to Clinical and Public Health Virology

Xavier López-Labrador, FISABIO-Public Health, Valencia (ES)

9.45-10.15 NGS quality control requirements for Clinical Virology

Eric Claas, Leiden University Medical Center, Leiden (NL)

10.15-10.45 Sample choice, collection, and treatment

Sander van Boheemen, Erasmus Medical Center, Rotterdam (NL)

10.45-11.15 Coffee break

NGS strategies and bioinformatic analysis

11.15-11.45. Unbiased virus metagenomics in human samples.

Jerome Le Goff, Université Paris Diderot, Paris (FR)

11.45-12.15. Metagenomic vs. targeted virus whole-genome analysis (WGA) using NGS.

Peter Simmonds, Oxford University, Oxford (UK)

12.15-12.45. Bioinformatic tools for NGS Data Analysis in Clinical Virology

Ellen Carbo, Leiden University Medical Center, Leiden (NL)

12.45-13.15 Using NGS in Clinical virology

Nicole Fischer, Eppendorf University Medical Center, Hamburg (D)

13.15-14.00 Lunch

NGS Application in Viral diagnostics

14.00-14.30 Metagenomics diagnostics of viral disease.

Louis Kroes, Leiden University Medical Center, Leiden (NL)

14.30-15.00 The virome in immunocompetent patient

Jutte de Vries, LUMC, Leiden (NL)

15.00-15.30 The virome in immunocompromised patient

Michael Huber, University Hospital Zürich (CH)

15.30-16.00 Coffee Break

NGS for antiviral resistance testing, patient management and surveillance

16.00-16.30 Deep sequencing in antiviral resistance testing.

Rob Schuurman, University Medical Center Utrecht, Utrecht (NL)

16.30-17.00 Clinical NGS for patient management: the case of CMV

Julia Colston, University College of London, London (UK)

17.00-17.30 Shared bioinformatics platform for Influenza whole-genome NGS data.

Vitor Borges, Department of Infectious Diseases, National Institute of Health, Lisbon (PT)

17:30 Old City Tour and Dinner (TBD)

Day 2, Tuesday, June 25

9.00-9.15 Opening

Jesús Rodríguez, University of Valencia Medical School, Valencia (ES)

Setting-up Diagnostic NGS in virology

9.15-9.45 Setting-up diagnostic NGS virology in a University Medical Center

Natascha Couto, University Medical Center Groningen, Groningen (NL)

9.45-10.15 Setting-up diagnostic NGS virology in a Regional clinical diagnostics laboratory

Kate Templeton, Royal Infirmary of Edinburgh (UK)

10.15-10.45 Use of NGS in viral outbreak investigations

Heli Harvala, NHS Blood and Transplant, London (UK)

10.45-11.15 Coffee break

Future Challenges

11.15-11.45 Real-life Implementation of Quality controls for NGS in Clinical Virology
Laurence Josset, VirPath Laboratory, Hospices Civils de Lyon, Lyon (FR)

11.45-12.15: Rapid Nanopore real-time sequencing in clinical virology
Steven Pullan, Genomics of Rare and Emerging Human Pathogens, Public Health England, Porton Down, Salisbury (UK)

12.15-12.45: NGS and viral quasispecies
Emma Thompson, MRC Centre for Virus Research, University of Glasgow (UK)

12.45-13.00 Break

13.00-13.30 ESCV Network on NGS (ENNGS) in Clinical Virology: Presentation and updates
Jutte de Vries and Eric Claas

13.30-13.45 Meeting Wrap-up, questions and discussion points.
Moderators: Javier Buesa and Jesús Rodríguez, University of Valencia, Valencia (ES); Xavier López-Labrador, FISABIO-Public Health, Valencia (ES)

13.45-15.00 End of Meeting, Lunch and Farewell
Mariet Feltkamp, Leiden University Medical Center, Leiden (NL) and Javier Buesa, University of Valencia Medical School, Valencia (ES)