

GENOMICS AND CLINICAL VIROLOGY

10–15 February 2019

Wellcome Genome Campus, UK

This popular course combines practical, hands-on laboratory and bioinformatics work, lectures and discussions on the application of Next Generation Sequencing (NGS) technologies to clinical virology.

PROGRAMME:

- Background to viral WGS approaches
- Sample handling and preparation
- Library preparation techniques
- Target enrichment methods e.g. probe-based sequence capture or PCR-based
- Viral metagenomics
- Technique discrimination – the appropriate technique to use in different scenarios
- Next generation and third generation sequencing platforms
- Bioinformatics analysis including different viral genome assembly approaches
- Data interpretation
- Validation and accreditation of viral WGS diagnostic service
- Case studies in outbreak investigation and infection control

INSTRUCTORS:

- Judith Breuer** University College London, UK
Nick Loman University of Birmingham, UK
Tamyo Mbisa Public Health England, UK
Emma Thomson MRC–University of Glasgow Centre for Virus Research, UK
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Carmen Manso Public Health England, UK
Sreenu Vattipally MRC–University of Glasgow Centre for Virus Research, UK
Sunando Roy University College London, UK
Chris Wymant University of Oxford, UK

GUEST SPEAKERS:

- Andrew Leigh Brown** University of Edinburgh, UK
Karin Metzner University Hospital Zurich, Switzerland
Oliver Pybus University of Oxford, UK



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