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:**
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**GUEST SPEAKERS:**
- Andrew Leigh Brown  University of Edinburgh, UK
- Karin Metzner  University Hospital Zurich, Switzerland
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**APPLICATION & BURSARY DEADLINE**
25 October 2018

Full details at: bit.ly/GCV2019