



Angsuman Das

has completed the following course:

BACTERIAL GENOMES: ACCESSING AND ANALYSING MICROBIAL GENOME DATA WELLCOME GENOME CAMPUS ADVANCED COURSES AND SCIENTIFIC CONFERENCES

This online course covered the principles of microbial bioinformatics analysis and comparative genomics. Artemis, an open source genome browser, was used to investigate whole bacterial genomes, and through analysis of bacterial genes and proteins, the genomic features of pathogens were explored.

The Royal College of Pathologists (RCPath) has accredited this course for 15 Continuing Professional Development (CPD) credits. This applies to medical staff and clinical scientists in career grade posts who are enrolled with one of the Royal Colleges for CPD purposes.

Dr Rebecca Twells

Head of Wellcome Genome Campus Advanced Courses and Scientific Conferences Professor Nicholas Thomson

Group Leader, Bacterial Genomics and Evolution Wellcome Sanger Institute, Wellcome Genome Campus

WELLCOME GENOME CAMPUS
SCIENTS

WELLCOME GENOME CAMPUS
ADVANCED
COURSES+
SCIENTIFIC
CONFERENCES







81%

AVERAGE TEST SCORE

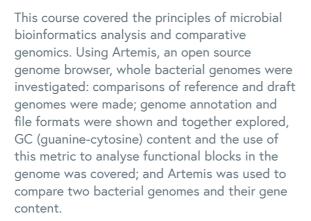


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STUDY REQUIREMENT

3 weeks, 5 hours per week

LEARNING OUTCOMES

- Collect, access, and download whole bacterial genomes from public repositories
- Investigate and navigate bacterial genomes and their annotation using Artemis
- Identify genomic regions with low/high GC (guanine-cytosine) content, often associated with virulence
- Perform simple comparative analyses between bacterial genomes

SYLLABUS

Week 1

- Multi-FASTA files
- Reference and draft bacterial genomes
- Introduction to Artemis, an open source genome browser

Week 2

- Genome annotation
- Genomic regions defined by GC (guaninecytosine) content

- Accessing and downloading whole genome sequences
- Pathogenicity islands

Week 3

- Peer-reviewed project: Ecological niche adaptation between two Mycobacterium species
- Pseudogenes in *Mycobacterium* species

ACCREDITATION

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