Future Learn

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Certificate of Achievement

Tanvir Rahman

has completed the following course:

BACTERIAL GENOMES: DISEASE OUTBREAKS AND ANTIMICROBIAL RESISTANCE
WELLCOME GENOME CAMPUS ADVANCED COURSES AND SCIENTIFIC CONFERENCES

This course explored the use of cutting edge genomic techniques in research on bacterial diseases, how they spread and how they resist antibiotic treatment.

The Royal College of Pathologists (RCPath) has accredited this course for 9 Continuing Professional Development 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.

The Royal College of Nursing (RCN) has approved this course for 9 CPD Continuing Professional Development (CPD) credits from 22 May 2019 to 21 May 2020. Accreditation applies only to the educational content and not to any product. The Royal College of Nursing cannot confirm competence of any practitioner.

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
CONNECTING SCIENCE
ADVANCED COURSES+ SCIENTIFIC CONFERENCES

Accredited by

RCPath CPD Approved

Royal College of Nursing
RCN ACCREDITED

The person named on this certificate has completed the activities in the attached transcript. For more information about Certificates of Achievement and the effort required to become eligible, visit futurelearn.com/proof-of-learning/certificate-of-achievement.

This learner has not verified their identity. The certificate and transcript do not imply the award of credit or the conferment of a qualification from Wellcome Genome Campus Advanced Courses and Scientific Conferences.

TRANSCRIPT

WELLCOME GENOME CAMPUS
CONNECTING SCIENCE
ADVANCED COURSES+ SCIENTIFIC CONFERENCES

Accredited by

Tanvir Rahman

has completed the following course:

80% AVERAGE TEST SCORE

BACTERIAL GENOMES: DISEASE OUTBREAKS AND ANTIMICROBIAL RESISTANCE

WELLCOME GENOME CAMPUS ADVANCED COURSES AND SCIENTIFIC CONFERENCES

The course covered bacterial genomes and pathogenic bacteria, genome sequencing technology, genomic epidemiology, disease outbreaks, and antimicrobial resistance. The course focused on how bacteria evolve to become effective pathogens and how genome sequencing and signatures of evolution are used: to identify and track the spread of pathogenic and drug resistant bacteria in communities and between countries, and in the prevention of antimicrobial resistance.

STUDY REQUIREMENT

3 weeks, 3 hours per week

LEARNING OUTCOMES

- Explain why some bacteria are pathogenic
- Explore the structure of bacterial genomes
- Describe the uses of different genome sequencing technologies
- Investigate how genome data are used to track the spread of bacterial disease
- Discuss the role of genome sequencing in stopping the spread of antimicrobial resistance

SYLLABUS

- Diseases caused by bacteria
- What bacterial genomes look like
- Genome sequencing technology
- Mechanisms of transmission and resistance
- Genomic epidemiology – tracking the spread of bacterial pathogens
- Antimicrobial resistance

ACCREDITATION

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