

PATHOGEN GENOMICS & NGS FOR MICROBIOLOGISTS



VIRUSES

BACTERIA

PROTOZOA



ADN CoE[®]

Training, Research Center & Core Lab

INFORMATION BOOKLET

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DAY 1

Foundations of Pathogen Genomics & Next-Generation Sequencing

Time	Session	Format
09:00 – 09:30	Registration & Welcome Coffee	Opening Remarks
09:30 – 10:00	Principles of Pathogen Genomics in Clinical Microbiology	Lecture
10:00 – 11:00	Next-Generation Sequencing Technologies & Platforms	Lecture
11:00 – 11:15	Coffee Break	Networking
11:15 – 12:30	Sample Preparation, DNA Extraction & Library Preparation	Case-Based Discussion
13:00 – 14:00	Lunch Break	Networking
13:30 – 14:45	Bioinformatics Pipelines for Pathogen Genome Analysis	Clinical Strategy Session
14:45 – 15:00	Coffee Break	Networking
15:00 – 16:00	Step-by-Step Workflow of Pathogen Genome Sequencing	Practical Workshop
16:00 – 16:30	Interpretation of Genomic Data in Infectious Disease Diagnostics	Technical Session
16:30 – 17:00	Day 1 Wrap-Up & Open Q&A	Wrap-Up

DAY 2

Advanced Genomic Analysis & Clinical Applications

Time	Session	Format
09:00 – 09:30	Morning Coffee & Day 1 Recap	Lecture
09:30 – 10:45	Genomic Epidemiology & Outbreak Investigation	Case-Based Lecture
10:45 – 11:00	Coffee Break	Networking
11:00 – 12:15	High-Fidelity Simulation of NGS-Based Diagnostic Workflows	High-Fidelity Simulation
12:15 – 13:15	Lunch Break	Networking
13:15 – 14:15	Integration of Genomic Data with Clinical Microbiology	Multidisciplinary Simulation
14:00 – 14:15	Coffee Break	Networking
14:15 – 15:30	Detection of Antimicrobial Resistance & Virulence Genes	Advanced Simulation
15:30 – 16:15	Detection of Antimicrobial Resistance & Virulence Genes	Integrated Workflow Session
16:15 – 16:45	Outcome Optimization & Quality Metrics in Genomic Microbiology	Systems-Based Review
16:45 – 17:00	Closing Remarks & Certificate Distribution	Wrap up

VENUE

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SCAN



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Useful Information



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Training Location

ADN CoE Training, Research Center & Core Lab

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