

AI & AUTOMATION IN CLINICAL MICROBIOLOGY DIAGNOSTICS



VIRUSES

PROTOZOA

FUNGI



ADN CoE®

Training, Research Center & Core Lab

INFORMATION BOOKLET

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DAY 1

Foundations of AI & Automation in Clinical Microbiology

Time	Session	Format
09:00 – 09:30	Registration & Welcome Coffee	Opening Remarks
09:30 – 10:00	Principles of Artificial Intelligence in Clinical Microbiology	Lecture
10:00 – 11:00	Automated Microbiology Systems & Digital Laboratory Workflows	Lecture
11:00 – 11:15	Coffee Break	Networking
11:15 – 12:30	Machine Learning Applications in Pathogen Detection & Identification	Case-Based Discussion
13:00 – 14:00	Lunch Break	Networking
13:30 – 14:45	AI-Based Image Analysis for Microbial Identification	Clinical Strategy Session
14:45 – 15:00	Coffee Break	Networking
15:00 – 16:00	Step-by-Step Workflow of AI-Assisted Microbiological Diagnostics	Practical Workshop
16:00 – 16:30	Data Management, Algorithm Validation & Quality Control	Technical Session
16:30 – 17:00	Day 1 Wrap-Up & Open Q&A	Wrap-Up

DAY 2

Advanced Applications, Simulation & Clinical Integration

Time	Session	Format
09:00 – 09:30	Morning Coffee & Day 1 Recap	Lecture
09:30 – 10:45	Integration of AI with Molecular & Culture-Based Diagnostics	Case-Based Lecture
10:45 – 11:00	Coffee Break	Networking
11:00 – 12:15	High-Fidelity Simulation of AI-Driven Diagnostic Workflows	High-Fidelity Simulation
12:15 – 13:15	Lunch Break	Networking
13:15 – 14:15	Multidisciplinary Collaboration: Microbiology, Data Science & Clinical Teams	Multidisciplinary Simulation
14:00 – 14:15	Coffee Break	Networking
14:15 – 15:30	Recognition of Algorithm Bias & Diagnostic Pitfalls	Advanced Simulation
15:30 – 16:15	Laboratory Reporting, Data Interpretation & Clinical Decision Support	Integrated Workflow Session
16:15 – 16:45	Outcome Optimization & Quality Metrics in AI-Assisted Diagnostics	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



Transfer

The transfer vehicle will accompany you during the training.



Training Location

ADN CoE Training, Research Center & Core Lab

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