



Aero Microbiology Workshops

Aero Microbiology Workshops

NTHRYS BIOTECH LABS offers specialized workshops in Aero Microbiology, covering key aspects of airborne microbial ecology and analysis. Explore our workshop modules below.

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Peak into Aero Microbiology: Select From Our Workshops!

1. [Workshop in Workshop on Microbial Sampling and Analysis TechniquesPDF](#)
2. [Workshop in Workshop on Bioaerosol Sampling and AnalysisPDF](#)
3. [Workshop in Workshop on Microbial Risk Assessment and ControlPDF](#)
4. [Workshop in Workshop on Advanced Techniques in Aerosol MicrobiologyPDF](#)
5. [Workshop in Workshop on Field Sampling and Analysis of Airborne MicrobesPDF](#)

1. Workshop in Workshop on Microbial Sampling and Analysis Techniques

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Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.

Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Air Sampling Methods

Hands-on training on active and passive air sampling techniques.

Demonstration of sampler setup and operation.

Collection of air samples from different environments.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Microbial Culture and Identification

Isolation of airborne microbes on selective media.

Identification of isolated colonies using biochemical tests.

Introduction to rapid microbial identification methods.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Molecular Techniques for Microbial Analysis

Extraction of microbial DNA from air samples.

PCR amplification of target genes.

Gel electrophoresis for analyzing PCR products.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Data Analysis and Interpretation

Quantification of microbial populations in air samples.

Statistical analysis of data using software tools.
Interpretation of results and reporting.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.
Dialogue on overcoming challenges in adopting new technologies in similar sectors.
Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

2. Workshop in Workshop on Bioaerosol Sampling and Analysis

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Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.
Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Bioaerosol Collection Methods

Hands-on training on impaction and impingement methods.
Demonstration of sampler calibration and validation.
Collection of bioaerosol samples from various sources.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Bioaerosol Characterization

Culture-based identification of bioaerosol microbes.
Molecular characterization using PCR and sequencing.
Analysis of bioaerosol composition and diversity.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Bioaerosol Exposure Assessment

Quantification of bioaerosol concentrations in different environments.
Assessment of exposure risks based on bioaerosol data.
Interpretation of exposure assessment results.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Bioaerosol Control Measures

Discussion on engineering controls for reducing bioaerosol emissions.
Hands-on demonstration of air filtration and purification systems.
Case studies on the implementation of bioaerosol control measures.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.
Dialogue on overcoming challenges in adopting new technologies in similar sectors.
Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

3. Workshop in Workshop on Microbial Risk Assessment and Control

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Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.

Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Risk Assessment Principles

Introduction to microbial risk assessment methodologies.

Hands-on exercises on hazard identification and exposure assessment.

Calculation of risk levels based on exposure scenarios.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Microbial Control Strategies

Discussion on strategies for controlling microbial risks in air.

Practical demonstration of disinfection techniques.
Implementation of control measures in simulated scenarios.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Indoor Air Quality Management

Assessment of indoor air quality parameters relevant to microbial risks.
Hands-on training on ventilation system inspection and maintenance.
Development of indoor air quality management plans.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Case Studies and Best Practices

Analysis of real-world microbial risk assessment and control cases.
Discussion on best practices for microbial risk management.
Development of action plans for implementing best practices.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.
Dialogue on overcoming challenges in adopting new technologies in similar sectors.
Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

4. Workshop in Workshop on Advanced Techniques in Aerosol Microbiology

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Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.

Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Aerosolization and Dispersion Modeling

Overview of aerosol physics and behavior in different environments.

Hands-on simulation of aerosolization processes.

Introduction to modeling software for predicting aerosol dispersion.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Microbial Survival and Transport in Aerosols

Experimental determination of microbial survival rates in aerosols.

Study of factors influencing microbial transport in air.

Discussion on the relevance of microbial transport studies in environmental and health contexts.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Advanced Molecular Techniques in Aerosol Analysis

Application of metagenomic and metatranscriptomic approaches to aerosol samples.

Hands-on training on high-throughput sequencing technologies.
Bioinformatic analysis of aerosol microbiome data.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Emerging Trends in Aerosol Microbiology

Discussion on the latest advancements in aerosol microbiology research.
Hands-on experience with cutting-edge aerosol sampling and analysis techniques.
Discussion on the future directions of aerosol microbiology research.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.
Dialogue on overcoming challenges in adopting new technologies in similar sectors.
Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

5. Workshop in Workshop on Field Sampling and Analysis of Airborne Microbes

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Date: Pre Selected Date

Fee: Rs 6000/-

Duration: One Day

Mode: Offline and Virtual

Location for Offline: NBL Cherlapalli IDA Branch

Facilitator(s): NTHRYS TEAM

8:00 AM - 8:30 AM: Registration and Welcome Coffee

Participants arrive, register, and network over coffee.

8:30 AM - 8:45 AM: Opening Remarks

Welcome by the host.

Brief overview of today's focus.

8:45 AM - 10:15 AM: Session 1: Field Sampling Protocols

Demonstration of field-friendly air sampling devices.

Hands-on training on sample collection from outdoor and indoor environments.

Preservation and transportation of samples for analysis.

10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: On-site Microbial Analysis

Rapid on-site analysis techniques for airborne microbes.

Use of portable equipment for microbial enumeration and identification.

Interpretation of on-site analysis results.

12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Data Interpretation and Reporting

Analysis of field data to assess airborne microbial concentrations.

Preparation of field reports and data interpretation.

Discussion on the challenges and best practices in field sampling and analysis.

2:30 PM - 2:45 PM: Short Break

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Field Study Design and Implementation

Designing a field study for investigating airborne microbial dynamics.

Hands-on exercise on setting up field sampling stations.

Discussion on factors influencing field study outcomes.

4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break

Last networking opportunity with snacks.

4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption

Group discussions on implementing new techniques learned today.

Dialogue on overcoming challenges in adopting new technologies in similar sectors.

Feedback session and closing remarks.

Certificate Issue

5:30 PM: Workshop Concludes

Note: NTHRYS Management reserves the right to modify the workshop module at any time without prior notice. Registered or enrolled candidates will receive the module that is current on the day of enrollment.

NTHRYS Workshops Department

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Aero Microbiology Workshops Application Process

1. Select a workshop from the list.
2. Contact via whatsapp on the number present above to request fee details and dates suitable for joining. Alternatively, you can send an email to workshops (a t) nthrys [d 0 t] com.
3. Our Workshop department will contact you promptly to provide further assistance.