

Computational Biology Workshops

Computational Biology Workshops

NTHRYS BIOTECH LABS provides a diverse array of workshops in the realm of Computational Biology. Explore our comprehensive offerings below

[Computational Biology Workshops Application Process](#)

[Back to All Workshops](#)

Computational Biology Brilliance: Unfold Your Scientific Curiosity!

1. [Workshop in Introduction to Computational BiologyPDF](#)
2. [Workshop in Advanced Techniques in Computational BiologyPDF](#)
3. [Workshop in Emerging Trends in Computational BiologyPDF](#)

1. Workshop in Introduction to Computational Biology

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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: Basics of Computational Biology

Overview of computational biology and its applications.

Introduction to algorithms and data structures used in computational biology.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Sequence Analysis

Hands-on training on sequence analysis techniques.

Practical session on sequence alignment, motif finding, and sequence database searching.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Structural Bioinformatics

Overview of structural bioinformatics and its role in drug discovery.

Practical exercises on predicting protein structures and analyzing protein-ligand interactions.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Systems Biology

Discussion on systems biology approaches and modeling techniques.

Case studies on modeling biological networks and pathways.

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 Advanced Techniques in Computational Biology

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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: Next-Generation Sequencing (NGS) Data Analysis

Introduction to NGS data analysis techniques.
Practical demonstration of processing and analyzing NGS data for biological insights.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Machine Learning in Computational Biology

Overview of machine learning applications in computational biology.
Hands-on workshop on applying machine learning algorithms to biological data analysis.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Network Biology

Introduction to network biology and network analysis methods.
Practical session on analyzing biological networks and identifying key network components.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Computational Drug Discovery

Discussion on computational approaches to drug discovery.
Case studies on virtual screening, molecular docking, and pharmacophore modeling.

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 Emerging Trends in Computational Biology

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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: Single-Cell Analysis

Introduction to single-cell analysis techniques.

Practical session on analyzing single-cell omics data and identifying cell types and states.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Artificial Intelligence in Biology

Overview of AI applications in biology.

Hands-on workshop on using AI for image analysis, genomics, and drug discovery.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Data Integration and Multi-Omics Analysis

Discussion on integrating multi-omics data and analysis methods.
Practical exercises on integrating and analyzing data from genomics, transcriptomics, and proteomics.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Future Directions in Computational Biology

Exploration of future trends and innovations in computational biology.
Case studies on using computational approaches to address complex biological questions.

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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Computational Biology 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 o t] com.
3. Our Workshop department will contact you promptly to provide further assistance.