# Bioinorganic Chemistry Workshops

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

## Application Process

1. Select a workshop from the list below.
2. Click on the WhatsApp icon in the top right corner 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.

## 1. Introduction to Bioinorganic Chemistry

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**Date:** Pre Selected Date

**Location:** 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 Bioinorganic Chemistry

Overview of bioinorganic chemistry and its importance.
Introduction to metal ions in biological systems and their functions.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Metalloproteins and Enzymes

Hands-on training on the study of metalloproteins and metalloenzymes.
Practical session on techniques for isolating and characterizing metalloproteins.

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

Catered lunch and networking opportunity.

### 1:00 PM - 2:30 PM: Session 3: Metal Ion Transport and Storage

Overview of metal ion transport and storage mechanisms in biological systems.
Practical exercises on studying metal ion binding and transport proteins.

### 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 in Bioinorganic Chemistry

Discussion on real-world case studies in bioinorganic chemistry.
Analysis of bioinorganic applications in medicine and biotechnology.

### 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 Agri Environmental sectors.
Feedback session and closing remarks.
Certificate Issue

**5:30 PM: Workshop Concludes**

# 2. Advanced Techniques in Bioinorganic Chemistry

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**Date:** Pre Selected Date

**Location:** 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: Spectroscopic Techniques

Introduction to spectroscopic techniques used in bioinorganic chemistry.
Practical demonstration of UV-Vis, EPR, and NMR spectroscopy.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: X-ray Crystallography

Overview of X-ray crystallography and its applications.
Hands-on workshop on solving the structures of metalloproteins using X-ray crystallography.

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

Catered lunch and networking opportunity.

### 1:00 PM - 2:30 PM: Session 3: Bioinorganic Reaction Mechanisms

Introduction to reaction mechanisms in bioinorganic chemistry.

Practical session on studying catalytic cycles and reaction intermediates.

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

Time for a stretch and informal discussions.

### 2:45 PM - 4:15 PM: Session 4: Bioinorganic Chemistry in Medicine

Discussion on the role of bioinorganic chemistry in medicine.
Case studies on the development of metal-based drugs and diagnostics.

### 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 Agri Environmental sectors.
Feedback session and closing remarks.
Certificate Issue

### 5:30 PM: Workshop Concludes

## 3. Emerging Trends in Bioinorganic Chemistry

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**Date:** Pre Selected Date

**Location:** 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: Metal-Based Therapeutics

Introduction to the development of metal-based therapeutics.
Practical session on designing and testing metal-based drugs.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Bioinorganic Nanotechnology

Overview of nanotechnology applications in bioinorganic chemistry.
Hands-on workshop on synthesizing and characterizing metal-based nanomaterials.

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

Catered lunch and networking opportunity.

### 1:00 PM - 2:30 PM: Session 3: Environmental Bioinorganic Chemistry

Discussion on the role of bioinorganic chemistry in environmental science.
Practical exercises on studying metal pollutants and their impact on biological systems.

### 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 Bioinorganic Chemistry

Exploration of future trends and innovations in bioinorganic chemistry.
Case studies on cutting-edge research and its applications.

### 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 Agri

Environmental 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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