



## NTHRYS WORKSHOPS

# Introduction To Computational Biology

### 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**