

# Horizons in Structural and Computational Biology (HSCB) - 2025

February 28 and March 01, 2025

Jointly organized by the Indian Institute of Technology Hyderabad (IITH)  
& the University of Hyderabad (UoH)



## Preamble

Structural biology is essential for understanding biomolecular structure and dynamics to elucidate the impact of any alterations on biological functions by integrating the principles from biochemistry, biophysics, and molecular biology. Complementarily, computational biology addresses biological challenges by leveraging computer science, statistics, and mathematics alongside experimental techniques.

HSCB-2025 seeks to showcase the latest advancements in structural and computational biology, focusing on biomolecular architecture, dynamics, and interactions across spatial and temporal scales. This conference will highlight their relevance to biological functions, disease mechanisms, vaccine & drug development and, biotechnology & nanotechnology applications.

We invite you to join us at HSCB-2025 to engage in discussions on scientific innovation, explore groundbreaking research, and discover the innovative methodologies and transformative technologies that are shaping the integration of these fields to solve complex molecular puzzles.

## Focus Areas

- Importance of structural biology to unravel biological functions
- Multiscale Simulations
- AI/ML application in sequence & structural analyses
- Omics technologies and applications
- Nucleic acid biology
- Protein design, structure, folding, interactions and functions
- Systems biology
- Bioinspired nanotechnology
- Single molecule biophysics and biophysical techniques
- Mathematical & theoretical modelling of membranes and biomolecular complexes
- Biological database & webtool development
- Cheminformatics, healthcare informatics, vaccine and, drug discovery

## Important Dates

- Registration opens** – Dec 01, 2024
- Early registration ends** – Dec 31, 2024
- Registration ends** – Jan 31, 2025
- Oral presentation - selection intimation** – Feb 07, 2025

## Registration fees

	Early	Late
Students (UG/PG)	₹1700/-	₹2000/-
PhD scholars	₹3000/-	₹4000/-
Post-docs	₹4000/-	₹5000/-
Faculties	₹6000/-	₹7000/-
Industry	₹10000/-	₹14000/-

*Discover, Discuss & Develop: Register for the Utmost Research Experience!*



## Organisers

Dr N Prakash Prabhu  
University of Hyderabad

Prof Thenmalarchelvi Rathinavelan  
IIT Hyderabad

## Register here

Online Registration:

<https://hscb2025.wixsite.com/hscb-2025-1>

For more details, visit the conference website



[hscb2025@gmail.com](mailto:hscb2025@gmail.com)



HSCB 2025

Brochure designed by  
Surabhi Srivastava & Uttam Das

# HSCB-2025

## Confirmed speakers



**Prof Wonpil Im**  
Lehigh University, USA



**Prof Gromiha Michael**  
IIT Madras



**Dr Jayati Sengupta**  
CSIR-IICB Kolkata



**Dr Gayatri Pananghat**  
IISER Pune



**Dr Somnath Dutta**  
IISc Bangalore



**Dr Arnab Bhattacharjee**  
JNU, Delhi



**Dr Himanshu Joshi**  
IIT Hyderabad



**Dr Appu K Singh**  
IIT Kanpur



**Dr Arunkumar Krishnan**  
IISER Berhampur



**Prof Ashutosh Kumar**  
IIT Bombay



**Prof Chandra S Verma**  
NUS, NTU  
Singapore



**Dr. Vipin Agarwal**  
TIFR Hyderabad



**Prof Prasenjit Bhaumik**  
IIT Bombay



**Dr. Prasun Kumar**  
IIT Palakkad



**Dr. Prem S Kaushal**  
Regional Centre for  
Blotechnology

## Venue

**Indian Institute of Technology Hyderabad**