

# Five-day workshop on “Recent Trends in Biological Inorganic Chemistry”

22-26 April, 2019

Cordinator: Dr. Mithun Roy  
Co-coordinator: Dr. Chandi C. Malakar

Sponsored by

# TEQIP-3

Technical Education Quality Improvement Programme

Organized by



Department of Chemistry  
NIT Manipur



## About the workshop

Biological inorganic chemistry is at the interface of biology and inorganic chemistry. Their critical roles of metals in electron transport, cellular homeostasis, biomedical applications, and chemical catalysis and other wide range of chemical reaction have led the bioinorganic chemists to study the roles of metals in biology, model, and replicate the chemistry these metals accomplish in nature. This workshop will focus on fundamentals and the advanced research at the frontier of bioinorganic chemistry aiming not only at elucidating the roles metals play in biological processes, but also understanding the roles of metals in emerging materials in medicine and diagnostics. This workshop “Recent Trends in Biological Inorganic Chemistry” provides a unique opportunity for younger scientists, learners of North East India to network with senior researchers in the field of bioinorganic chemistry.

## About NIT Manipur

NIT Manipur, an institute of national importance under MHRD, established in 2010 with five branches of Engineering (Electrical Engineering, Electronics & Communication Engineering and Computer Science & Engineering, Mechanical Engineering and Civil Engineering), three science branches (Physics, Chemistry and Mathematics) and one branch on humanities. The institute has acquired 341.5 acres of land in lush green areas of Langol, Imphal.

## Learning module

- ✓ Bioinspired materials
- ✓ Bioinorganic chemistry
- ✓ Metals in medicine
- ✓ Bioorganometallic chemistry
- ✓ Drug-DNA/Protein interactions

## Registration

Participants from Industry/ Research Organizations: Rs. 5000/-  
Participants from Academic Institutions:  
UG/PG Students: Rs. 500/-  
PhD/Postdoc Students: Rs. 1000/-  
Faculty Members: Rs. 2000/-

## Experts

### Prof. Akhil R. Chakravarty



Prof. Akhil R. Chakravarty received his PhD from Indian Association for the Cultivation of Science, Calcutta in 1982. He did his postdoctoral research with Prof. F. A. Cotton at Texas A&M University, USA (1982-1985). Prof. Chakravarty continued his research career at Indian Institute of Science, Bangalore since 1985 as the independent researcher in the subject area of organometallics, X-ray crystallography, DNA photocleavage and photocytotoxicity with metal-based compounds. He

published his work in more than 250 reputed journals and he was awarded with Shanti Swarup Bhatnagar (SSB) Prize in Chemical Sciences (1998), CRSI Silver Medal (2007), J. C. Bose fellowship as a recognition of his outstanding contribution to research. He has been elected fellow of the Indian Academy of Sciences (FASc) in 1995 and Indian National Science Academy (FNA) in 2006. Prof. Chakravarty is already the elected member of "Third world Academy of Science" since 2010. He held administrative position at IISc Bangalore as Chairman of the department of Inorganic and Physical Chemistry (2002-2006).

### Prof. K. Indira Priyadarshini



Prof. K. Indira Priyadarshini received her PhD degree from Bombay University in 1990 and perused postdoctoral research at Mount Vernon Hospital, UK till 1995. She joined as the scientist at BARC, Mumbai and presently serving as the divisional chair at Radiation & Photochemistry Division, Bhabha Atomic Research Centre, India. Her current research area based on the development of organoselenium-based antioxidants for cancer therapy. She has published her work in more than 150 renowned national or international journals.

### Prof. Arindam Mukherjee



Prof. Mukherjee received his PhD from Indian Institute of Science, Bangalore, India, in 2005. He did his postdoctoral research from University of Melbourne, Edinburgh and Warwick, USA (2005-2009). Prof. Mukherjee continued his research career at Indian Institute of Science Education and Research Kolkata, since 2009 as the independent researcher in the subject area of cancer therapeutics, biomimetics and catalysis, anti-dyslipidemia agents, anti-metastatic and anti-angiogenic activity with metal-based compounds. He published his work in more than 60 reputed journals.



### Prof. Sourav Chatterjee

Dr. Sourav Chatterjee received his PhD degree from IIT Bombay in 2001 and joined as assistant professor at NIT Rourkela in 2007. His research is aimed at functionalization of ferrocenyl and half sandwich complexes and to understand their redox, biological and photophysical properties.



### Dr. Ashis K. Patra

Dr. A. K. Patra received his PhD from Indian Institute of Science, Bangalore, India, in 2008. Following postdoctoral research, Dr. Ashis K. Patra continued his research career at IIT Kanpur, since 2013, in the area of Inorganic Chemistry, Medicinal Chemistry, Chemical Biology, Developing metal-based prodrugs and drug delivery techniques, Biomimetic Chemistry of Metalloenzymes.