



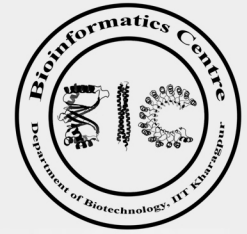
# GN Ramachandran Lecture Series

on

## Bioinformatics and Computational Biology

Organized by

DBT supported Bioinformatics Centre  
Department of Biotechnology  
IIT Kharagpur



### Speakers :



Prof. Saraswathi Vishveshwara  
IISc Bangalore



Prof. Sharmila Mande  
Tata Consultancy Services



Prof. Swagata Dasgupta  
IIT Kharagpur



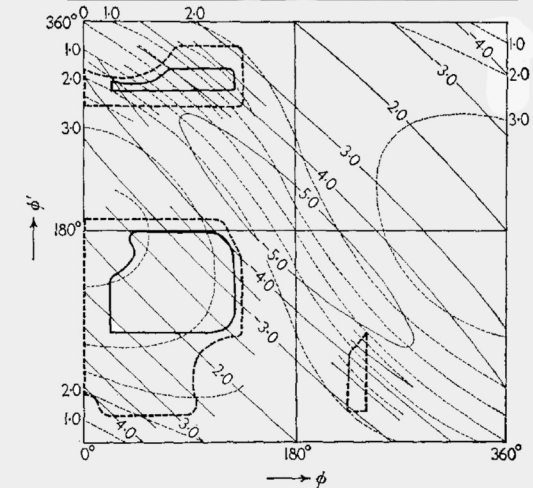
Prof. Gautam Basu  
Bose Institute



Prof. R. Sankararamakrishnan  
IIT Kanpur



Prof. Sudip Kundu  
Calcutta University



**Venue:**  
Dept. of Biotechnology  
IIT Kharagpur, Kharagpur

## **G. N. Ramachandran: A Jewel in the Crown of Indian Science**

Professor G.N. Ramachandran is one of the most brilliant scientists with an intelligently gifted mind in post-independence India. Born on 8<sup>th</sup> of October 1922, he received his primary and secondary education in the erstwhile princely state of Cochin. With undergraduate and postgraduate degrees in Physics, Prof.G.N. Ramachandran received his doctoral degree from Cambridge University, UK in the field of X-ray diffraction. After completing doctoral degree, Prof.G.N. Ramachandran joined the Department of Physics of Indian Institute of Science as an Assistant Professor of Physics in 1949. He was in charge of the X-ray Diffraction Laboratory that he was instrumental in building as a student. After spending about two years at the Indian Institute of Science, he shifted to Madras University, where he and his group made lasting contributions to the field of Biophysics. Prof.G.N. Ramachandran and his peerless postdoctoral fellow, Dr. Gopinath Kartha proposed the triple helical structure of collagen in 1954. Several studies on the structure and conformation of proteins and peptides resulted in the development of the eponymous "Ramachandran Plot", which was published in the Journal of Molecular Biology in 1963 and became a gold standard for studying the protein conformations.

## **About the Department**

The Indian Institute of Technology Kharagpur (IIT Kharagpur or IITKgp) is the First IIT established by the Government of India in 1951. It is recognized as an Institute of National Importance and recently, as an Institute of Eminence by the Government of India. The Institute was established with a mandate to produce world class engineers and scientists after our independence in 1947. IIT Kharagpur launched M.Tech. program in Biotechnology & Biochemical Engineering way back in 1986. Wide appreciation of the program in the country and abroad led to introduction of an UG program in Biotechnology & Biochemical Engineering in 1994. Subsequently, the Department of Biotechnology (<http://www.bt.iitkgp.ac.in>) was established in 1999 to run the UG and PG programs independently. Presently, the Department is running 4-Year B. Tech, 5-Year dual degree (B. Tech & M.Tech), 2-Year M.Tech and Ph.D programs in Biotechnology & Biochemical Eng. The faculty members are involved in research and development in emerging areas of basic biological science and their applications in various domains along with Industry-institute participation.

## **About Bioinformatics Centre**

The DBT supported Bioinformatics Centre (BIC) was set up in 2022 at the Biotechnology Department of IIT Kharagpur. The mission of this centre is to provide a national level facility and expertise in Bioinformatics and Computational Biology by pursuing cutting edge research and development along with the focused man-power training in various fields of Bioinformatics and Computational biology. Faculty members involved in this centre has significant contributions in the areas of Structural Bioinformatics, Biomolecular simulations, Big-data analysis in genomics, proteomics and systems level metabolomics analysis. As a mark of respect, honoring and remembering scientific contributions made by Prof. G.N. Ramachandran, the Bioinformatics Centre, Department of Biotechnology, IIT Kharagpur is commemorating the birth anniversary of Prof. G.N. Ramachandran with a lecture series to be held on 17<sup>th</sup> of October 2023.