National Workshop
On
Macromolecular Crystallography
(18th December, 2019)
Under Silver Jubilee Celebration of International Academy of Physical Sciences (IAPS)

Sponsored by:
Pondicherry University

Organized By:
Centre for Bioinformatics
Pondicherry University
Puducherry, India- 605014
Genesis:
The year 1895 marked the birth of X-rays by Wilhelm Conard Rongten in Germany, fast forward 17 years and physicist Max Von Laue and the Braggs used this technique to unveil the structure of macromolecules to understand the biological systems. Subsequently, the discovery of this technique has provided such an important breakthrough to the scientific community, that in the current era, this technique is used for a wide range of applications ranging from understanding the mechanism of protein synthesis machinery and DNA replication to designing novel medicines. Therefore, in order to commemorate the significance of such a valuable asset, the Centre for Bioinformatics, Pondicherry University is extremely privileged and pleased to organize a one day national workshop and hands-on training on “Macromolecular Crystallography” on the 18th of December 2019. This workshop focuses on studying the principle of X-ray crystallography, its recent advancements and currently trending techniques used to understanding the structures of macromolecules and its application towards studying various biological mechanisms at a macromolecular level complemented with a hands-on session. This workshop is designed with an ambition to enable participants to learn, understand and capture the essence of X-ray crystallography and ignite the minds of young and aspiring researchers which can enable them to implement these techniques to their research.

Our Centre:
The Centre for Bioinformatics at the Pondicherry University had started as a Distributed Information Sub-Centre (Sub-DIC) of the Department of Biotechnology (DBT) in the year 1991 and was upgraded to a full-fledged Centre in 2001. This Centre was conferred Centre of Excellence in Bioinformatics by the Department of Information Technology (DIT), Government of India in 2007. The Centre is also funded under UGC SP to conduct research in computational biology and drug discovery since 2012. The Centre offers M.Sc. and Ph.D programmes in Bioinformatics and M.Tech. Computational Biology as a collaborative network programme with full support from Department of Biotechnology, Govt. of India. The Centre has 11 faculty members and 40 research scholars endowed with computational and wet lab facilities and offers research programs in various areas of bioinformatics and computational biology like macromolecular crystallography, systems biology, comparative genomics, molecular modeling and drug discovery. The Centre has conducted more than 40 Seminars/Workshops in its past years.

Date and Venue:
National Seminar on Macromolecular Crystallography will be held on the 18th of December, 2019 in the Centre for Bioinformatics, School of Life Sciences, Pondicherry University, Kalapet, Puducherry - 605014.

Invited Speakers for the Workshop:
Prof. D. Velmurugan, Professor, Former Head, Centre for Advanced Crystallography and Biophysics, University of Madras.
Prof. P. Karthe, Professor & Head, Centre for Advanced Crystallography and Biophysics, University of Madras.
Prof. Basant K. Tiwary, Professor, Centre for Bioinformatics, Pondicherry University.
Dr. Sreemivasa R. Chinni, Ph.D., Associate Professor, Departments of Urology, Pathology and Oncology, School of Medicine, Wayne State University.
Dr. R. Krishna, Associate Professor, Centre for Bioinformatics, Pondicherry University.
Dr. N. Gunasekaran, Assistant Professor, Centre for Advanced Crystallography and Biophysics, University of Madras.
Dr. A. Muradi Assistant Professor, Centre for Bioinformatics, Pondicherry University.

Registration Details
Interested candidates may register on or before 15th December, 2019 at http://www.bicpu.edu.in/

Eligibility:
Students, Research aspirants, Faculty, Scientists and Representatives from Industries interested in the fields of macromolecular crystallography, structural bioinformatics and related areas in bioinformatics are welcomed to participate.