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Two-day National-level Workshop

on

Recent Trends in Computer-Aided Drug Discovery RTCADD 2023

21st-22nd February 2023



ORGANISED BY

Department of Plant Biology and Biotechnology
Loyola College (Autonomous)
Chennai - 600 034

NAAC Accredited A++



LOYOLA COLLEGE

Loyola College is an autonomous college of the University of Madras. Loyola College was founded in 1925 by French Jesuit Rev. Fr. Francis Bertram SJ. The college stands tall on a 99-acre campus in the heart of Chennai. Loyola also has exclusive supportive institutes to help promote research activities and career opportunities for the students through need-based programs. UGC has elevated Loyola College to the status of "College of Excellence" for the innovative teaching and quality research activities and for holistic development. In National Institutional Ranking Framework College Rankings 2022, Loyola College, Chennai, has been ranked fourth in India.

DEPARTMENT OF PLANT BIOLOGY AND BIOTECHNOLOGY

The Department of Plant Biology and Biotechnology was started in 1950 as a young Department of Botany; it has grown over the years, adopting a new nomenclature as the Department of Plant Biology and Biotechnology, keeping in tune with the trends of time, and also based on societal demands. From a mere undergraduate department for almost four decades, the department became a PG department with the introduction of M.Sc. Biotechnology in 2000 and elevated as the research department from the University of Madras. The department has been offering M. Phil and PhD programs in Plant Biology and Biotechnology since 2007.

ABOUT THE WORKSHOP (RTCADD2023)

Computer-Aided Drug Discovery (CADD) is a revolutionary area that contributes in a big way towards the discovery of potential drugs called lead molecules. It is a specialized discipline that uses computational methods to simulate drug-receptor interactions. It depends on databases, bioinformatics tools and their applications. CADD uses computational tools to find characteristics of a drug and analyze its activity on a biological target. It has contributed greatly in reducing the time and money involved in the development of a new drug. CADD uses computer algorithms to zero in on a potential drug for a given drug target. With a database of various lead molecules in the form of synthetic and natural compounds, the discovery and validation of drugs for known diseases becomes easier.

The workshop aims to provide exposure and knowledge on the advances in CADD along with a hands-on training on the various computational tools available on the road to drug discovery.

THRUST AREAS OF RTCADD2023

Hands-on training on Molecular Docking and Molecular Dynamic Simulation
Target and lead identification
Virtual Screening of lead molecules
ADME - Toxicity
Drug likeness - molecular modelling
Quantitative structure activity relationship
Target based drug design -Docking

REGISTRATION FEE*

PG students: Rs.800/-

Research Scholars: Rs.1,200/-

Faculty members: Rs.1,500/-

*Includes certificate, workshop kit, lunch and refreshment

Last date for Registration: 12 February 2023

Registration Link: [Click here to register](#)

Email: rtcadd2023@gmail.com