TWO WEEKS HANDS-ON WORKSHOP/ FDP
ON
BIOINFORMATICS UNLEASHED: EXPLORING SEQUENCES TO SIMULATION

September 17 to October 1, 2024

Organized by

School of Life Sciences
B.S.Abdur Rahman Crescent Institute of Science and Technology, Chennai

In association with

Crescent Bioinformatics Association

Convenor

Dr. S. Hemalatha
Professor and Dean
School of Life Sciences

Organizing Team

Dr. S. Ranjani, Asst. Prof
Dr. A. Baskaran, Asst. Prof

About B.S. Abdur Rahman Crescent Institute of Science and Technology, Chennai, India

B.S.Abdur Rahman Crescent Institute of Science and Technology is accredited with "A+" grade by NAAC, ranked 3rd among the Engineering Institutions in Tamilnadu in teaching, learning and resources by NIRF, MHRD. It has track record of 39 years of Excellence in offering Engineering, Science and Management programmes. Being one of the leading engineering institutions in India, it lays emphasis on innovative research, investment and first rate infrastructure.

About the School of Life Sciences

School of Life Sciences is THE BEST SCHOOL in BSACIST, excelling in teaching, research and training programmes across the interdisciplinary areas of life sciences by nurturing student's bioentrepreneurs. The school offers Undergraduate, Postgraduate and Doctoral programme in Life Sciences. Visit www.crescent.education

About Crescent Bioinformatics Association (CBA)

Crescent Bioinformatics Association (CBA) is started with the aim to explore the significance of Bioinformatics and its tools through education and research. Recent updates on bioinformatics and its importance in research will be explored via seminars, workshops,FDP and conferences.

Who can participate?

Under-graduate and post-graduate students, PhD scholars, Faculty members can participate in 15 days Hands-on workshop/ FDP
E-Certificate will be provided to all the participants.

Registration Fee: Rs. 500/-

Account Details for Registration

Bank   : Indian Overseas Bank, (IOB)
Acc. Name   : Dean, School of Life Sciences
Ac. No.   : 165701000019853
IFSC code   : IOBA0001657
Branch   : Vandalur, Chennai

https://forms.gle/XZztTBkdnYQ4Ydrq8

Scan to Register

For more information please contact
ranjani.sls@crescent.education; baskaran@crescent.education

After registration, please join in our whatsapp group
(link provided in the google form)

Schedule Time: 6:00 pm – 7:00 pm

Day	Topic
Day 1	Bioinformatics and databases
Day 2	Multi-omics
Day 3	Sequence alignment
Day 4	Homologous sequence search (BLAST, Clustal Omega)
Day 5	Molecular modelling
Day 6	Phylogenetic tree construction (Phylogenetic tools)
Day 7	Introduction to molecular docking and databases
Day 8	Pharmacokinetic screening of ligands
Day 9	Molecular docking – Autodock
Day 10	Molecular docking –Pyrx
Day 11	Molecular docking-protein-protein interactions
Day 12	Molecular Visualization (PyMol and Chimera)
Day 13	Molecular dynamics Simulation (Basics to Simulation)
Day 14	Molecular dynamics Simulation (System and Complex preparation for Simulation, Post simulation analysis and energy calculation)
Day 15	Assessment