



Two Days State Level Workshop on Basic Techniques of Bioinformatics And Drug Designing

10-11 April 2017

REGISTRATION FORM

Name:

Designation:

Affiliation/Institution:

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Address

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Phone:

E-mail:

Category:
Student/Researcher/Academician

PAYMENT MODE

Tick one Cash () Demand Draft ()

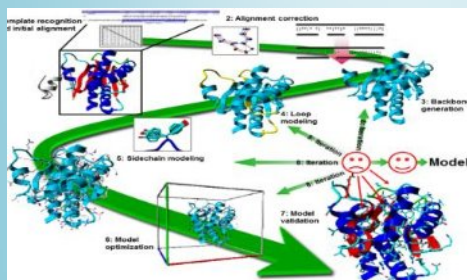
D.D. No.....

Date

Amount in Rs.....

Name of the Bank.....

Signature of the Participant



REGISTRATION DETAILS

Participants (UG & PG students, Ph.D. Scholars and Faculty members) who wish to be part of this unique workshop are requested to kindly confirm their registration with organizers through filled registration form along with the fee amount payable by cash or demand draft drawn in favour of "The Principal, Sri Pratap College", payable at Srinagar on or before 31-Mar-2017. The registration fee includes lunch and tea/snacks. The total intake capacity is 100 participants on first- cum-first serve basis.

UG & PG students : Rs.300/-
Ph.D. Scholars : Rs.500/-
Faculty Members : Rs. 1,000/-

ORGANIZING COMMITTEE

CHIEF PATRON

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(Vice-Chancellor Cluster University, Kashmir)

PATRONS

Dr. Yaseen Ahmad Shah

(Registrar Cluster University, Kashmir)

&

Principal, Govt. S.P College, Srinagar

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CONTACT PERSONS

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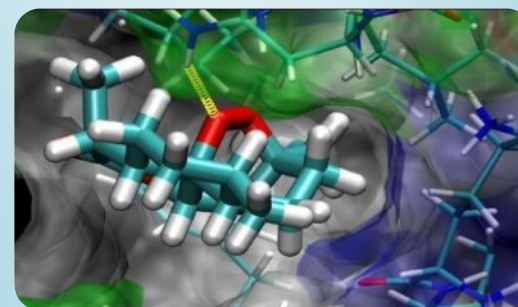
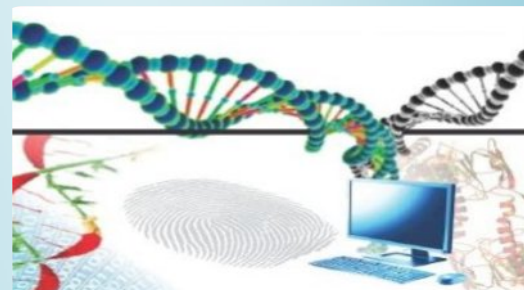
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Email: mudasirbt@gmail.com

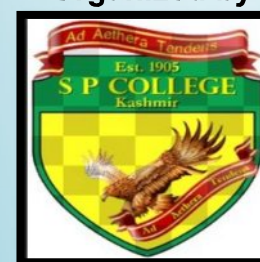
Two Days State Level Workshop on

Basic Techniques of Bioinformatics And Drug Designing

10-11 April 2017



Organized by



Department of Biotechnology and Bioinformatics

Sri Pratap College

(A Constituent of Cluster University, Kashmir)

Maulana Azad Road
Srinagar, Kashmir – 190001

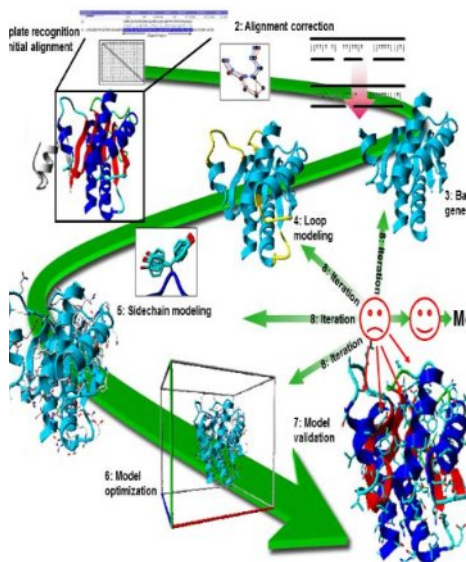
www.spcollege.co.in

ABOUT DEPARTMENT OF BIOTECHNOLOGY AND BIOINFORMATICS

The Department of Biotechnology and Bioinformatics is offering under graduate programmes in the discipline of Biotechnology and Bioinformatics. The Department has well equipped Laboratory along with highly qualified, well trained and experienced faculty members. The Department is aiming to kick start Laboratory based programs for students in different horizons of industry oriented biotechnological and pharmaceutical techniques, so as to ensure more employability chances for the students post B.Sc.

BIOINFORMATICS AT GLANCE

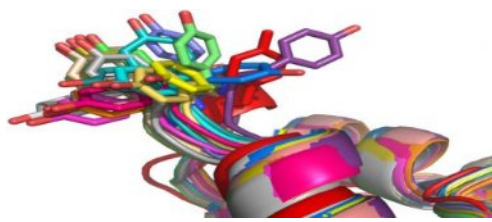
Bioinformatics term was coined by Paulien Hogeweg and Ben Hesper in 1970s, it is a multidisciplinary field comprising biology, mathematics, statistics and computer science areas. Collection, storing, retrieving, manipulating and distributing information related to biological macromolecules such as nucleic acids (DNA, RNA), and protein with the help of computers are its major thrust areas. Bioinformatics driven era will have great potential for revolutionizing biological research in the upcoming decades.



NEED FOR BIOINFORMATICS HANDS ON TRAINING

Recent advances in the field of Biosciences and the rapidly emerging challenges and opportunities have expanded horizons of the fields of research and study in biological and allied disciplines. The new high through-put technologies have enriched the field of biological sciences with huge amount of data, which in itself being a challenge has opened the doors of interdisciplinary research domains and created a host of new opportunities. A flood of data means that many of the challenges in biology are now challenges in computing and this challenge has given birth to a new interdisciplinary field called Bioinformatics. It has now firmly established itself as a discipline of study encompassing wide range of subject areas from structural biology, genomics to gene expression study.

In this post-genomics era, bioinformatics has become an integral subject component in pharmaceutical, biotechnological industries, also in academic curriculum. However, the practical knowledge among students is not enough. Additionally, availability of new bioinformatics softwares and upgrading existing ones seems to widen this gap. Thus, there is an urgent and dire need for practical oriented training on bioinformatics softwares, so that students get equipped with better and sound understanding on Bioinformatics tools. Therefore, we aim to expose participants on intensive hands on training related to Bioinformatics tools and their applications in healthcare, agriculture, proteomics, genomics etc.



Biotechnology and pharmaceutical enterprises have formed bioinformatics groups, consisting of computational biologists and bioinformatics computer scientists. Therefore, there is a desperate need to create skillful workforce as specialists in the field of computational biology to ensure better and sound understanding of Bioinformatics.

WORKSHOP SCHEDULE

Day-1

Session-I: Inaugural Ceremony

Session-II:

- ✓ Introduction to Various databases of Small-molecules.
- ✓ Retrieving small molecules from these databases
- ✓ Introduction to Uniprot and retrieving sequences from it.
- ✓ Finding percentage identity of sequences using Clustal Omega, MultAlin
- ✓ Introduction to RCSB and the criteria of selecting crystal structure of proteins for molecular docking

Day-2

Session-I: Template based modelling
Methods of validating models

Session-II:

- ✓ Molecular docking and pose validation
- ✓ Ligand interaction profile generation
- ✓ Predicting Free energy of docked complexes using MMGBSA
- ✓ Energetically optimized structure based pharmacophore approach

Session-III: Valedictory function.

PARTICIPANTS

The participants who have deep passion and zeal to explore novel dimensions of Bioinformatics and computational biology are most welcome to be part of this workshop.

ACCOMMODATION

Participants are advised to take care of their own arrangements.

VENUE

Department of Biotechnology and Bioinformatics, SP College, Maulana Azad Road Srinagar, Kashmir – 190001.

