



Shivaji College
NAAC Accredited Grade "A"
University of Delhi

Department of Biochemistry
(under the aegis of DBT sponsored Star College Scheme)



Five-day National Workshop with Hands-on Training through Virtual Platform

on

“Bioinformatics and Biostatistics: A Beginner’s Guide”

(January 16-20, 2021; Time: 3:00 pm - 5:00 pm)

RESOURCE PERSONS



Dr. N. Latha
(Chief Guest, Inaugural Function)

Associate Professor, Department of Biochemistry
Coordinator, Bioinformatics Centre
Sri Venkateswara College
University of Delhi



Dr. Jaspreet Kaur

Associate Professor
Pearl Academy, New Delhi



Dr. Manoj Kumar

Scientist-II, Department of Biophysics
AIIMS, New Delhi



Dr. S. Ramachandran
(Chief Guest, Valedictory Function)

Senior Principal Scientist, Professor of the AcSIR
Faculty of Biological Sciences, CSIR-IGIB
Mathura Road, New Delhi



Dr. Nidhi Jatana Batra

Post-doctoral fellow
Computational structural biology
CSIR- IGIB, New Delhi



Dr. Kriti Kaushik

DBT-Research Associate III
Department of Biochemistry
AIIMS, New Delhi



Dr. Uma Dhawan

Department of Biomedical Sciences
Bhaskaracharya College of Applied
Sciences, University of Delhi

TOPICS TO BE COVERED

- ✓ Bioinformatics tools for the beginners
- ✓ Visualization of Drug-Protein Interactions using PyMol
- ✓ Open source tool 'R' for statistical analysis of biological data.
- ✓ Meta-analysis
- ✓ Designing sgRNA for crispr/cas9, disease genomics
- ✓ Use of pubmed.mineR

REGISTRATION

Link: <https://forms.gle/v6z57tChXF3Bszwz6>

QR Code



Limited seats are available (only faculty members)
Last date for the registration is January 13, 2021

Prerequisite:

Good internet access, Electronic device (Desktop/laptop)

VENUE

ZOOM PLATFORM and YOUTUBE LIVE STREAM

E-certificates will be provided to the participants after the successful completion of the workshop

For any query contact

Student Coordinators

Aditi Rattan: 8383091719

Sagar : 7428011028

Dr. Renu Baweja & Dr. Sunita Singh
Workshop Coordinators

Dr. Darshan Malik
Coordinator, SCS

Dr. Shiv Kumar Sahdev
Principal

Dr. Renu Baweja
Convener, SCS

Dr. Jayita Thakur
Co-Convener, SCS

Organizing Team

Dr. Neena R. Wadehra

Dr. Rashmi Wardhan

Dr. Usha Yadav

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January 16-20, 2021

Day /Session	Resource Person	Topic	Outcomes
January 16, 2021			
3:00 pm-3:45 pm	Inaugural Session		
3:00 pm-3:10 pm	Workshop overview		
	Inaugural Lecture		
3:10 pm-3:45 pm	Chief Guest, Dr. N. Latha Associate Professor, Department of Biochemistry Coordinator, Bioinformatics Centre Sri Venkateswara College University of Delhi	Bioinformatics,: Concepts and Applications	Sequence retrieval from databases, FASTA format, pairwise sequence alignment using BLAST and multiple sequence alignment tools
3:45 pm-5:00 pm	Dr. Nidhi Jatana Batra Post-doctoral fellow Computational structural biology	Hands-on training with Bioinformatics tools for the beginners	

	CSIR-IGIB New Delhi		
January 17, 2021 3:00 pm -5:00 pm	Dr. Manoj Kumar Scientist-II Department of Biophysics AIIMS New Delhi	Visualization of Drug-Protein Interactions using PyMol	Understand the structure of molecules Understand the non-covalent interactions between drugs and their targets
January 18, 2021 3:00 pm-5:00 pm	Dr. Uma Dhawan Department of Biomedical Sciences Bhaskaracharya College of Applied Sciences University of Delhi	Basic Biostatistics with hands-on training on 'R'	Understand the open source tool 'R' for statistical analysis of biological data. Understand the concepts like descriptive statistics, graphical representation of data, correlation and linear regression analysis, and hypothesis testing.
January 19, 2021 3:00 pm-5:00 pm	Dr. Jaspreet Kaur Associate Professor Pearl Academy New Delhi	Applying Meta-analysis to the Bioinformatics	Meta-analysis Cohen D effect size, calculation of effect size, heterogeneity index, fixed and random model
January 20, 2021 3:00 pm-4:15 pm	Dr Kriti Kaushik DBT-Research Associate III Department of Biochemistry AIIMS	Understanding how Genomics Revolution can reshape our future	Introduction to genome projects Understand the NGS atlas and precision medicine, Application of gene editing by crispr/cas9, Hands-on training with genome browsers, designing sgRNA for crispr/cas9,

4:15 pm-5:30 pm	New Delhi Valedictory Session Chief Guest, Professor Dr. S. Ramachandran Senior Principal Scientist Professor of the AcSIR Faculty of Biological Sciences CSIR-IGIB Mathura Road New Delhi	From Literature to Networks and Pathways	disease genomics Understand the networks and pathways using pubmed.mineR and functional association networks
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