

Five-day Workshop with Hands-on Training through virtual platform
on
Bioinformatics and Biostatistics: A Beginner's Guide
 (Under the aegis DBT Star College Scheme)

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	Overview of Bioinformatics, Protein Structure Modelling & CADD	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	

	CSIR-IGIB New Delhi	beginners	
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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