



UGC-Human Resource Development Centre
यूजीसी-मानव संसाधन विकास केंद्र
Jawaharlal Nehru University, New Delhi
जवाहरलाल नेहरू विश्वविद्यालय, नई दिल्ली



25th Refresher Course in Life Sciences & Biotechnology (ONLINE MODE)

28th December – 9th January, 2020

Course coordinators:

Prof. Pawan Dhar

Dean, School of Biotechnology, JNU

Email: pawandhar@mail.jnu.ac.in,

Dr. Rita Sharma

School of Computational and Integrative Sciences, JNU

Email: rita.genomics@gmail.com,

List of Participants:

S.No.	NAME
1	DR. ABHINAV GROVER
2	DR. ABHISHEKA BANSAL
3	DR. AJAY KUMAR
4	DR. ANIL KUMAR
5	DR. ANNIE FEBY
6	DR. ARCHANA TIWARI
7	DR. ARUN KUMAR MAURYA
8	DR. AVINASH MARWAL
9	DR. DEEPAK KUMAR ARYA
10	DR. EUSHAH ALI
11	DR. GAUTAM KUMAR
12	DR. HEMANT RITTURAJ KUSHWAHA
13	DR. INDRANIL CHATTOPADHYAY
14	DR. JAYDEEP BHATTACHARYA
15	DR. KALYANI PUTTY

16	DR. M DIVYA GNANESWARI
17	DR. MAHENDER AILENI
18	DR. MANOJ K. SHARMA
19	DR. NEELIMA DHINGRA
20	DR. NIDHI
21	DR. NITIN BHARDWAJ
22	DR. P.PRIYA
23	DR. PRAVEEN SONI
24	DR. PREMLATA VIKAL
25	DR. RAJIV RANJAN
26	DR. RAKESH KUNDU
27	DR. RANJANA ARYA
28	DR. RASHMI SINGH
29	DR. RAVI TANDON
30	DR. ROOHI MUSHTAQ
31	DR. SADIQ MAJEED
32	DR. SARIKA YADAV
33	DR. SAVITRI
34	DR. SONIKA SHARMA
35	DR. SUBRATA SARKAR
36	DR. SUDHIR KUMAR
37	DR. SUNITA BANDOPADHYAY MUKHOPADHYAY
38	DR. SUSHMA PHURAILATPAM
39	DR. SWARNENDU ROY

WEEK - I

DATE	10:00- 11:00 am	11:00 am – 11:30 am	11:30 am – 01:00 pm	1:00 pm – 2:00 pm	2:00 pm - 03.00 pm	3:00 pm - 3.30 pm	03.30 pm - 05.00 pm
Mon, Dec 28, 2020	Registration	Tea Break	Combined Inaugural Session	Lunch Break	Orientation By HRDC	Tea Break	Interaction with Course Coordinators: Dr. Rita Sharma, SCIS Prof. Pawan K. Dhar, SBT
DATE	09.30 am - 11.00 am	11:00 am – 11.30 am	11:30 am-01.00 pm	1:00 pm – 2:00 pm	2.00 pm - 3.30pm	3.30 pm – 3.45pm	3:45 pm - 5:15 pm
Tue, December 29, 2020	Prof. Binay Panda <i>“Whither data in biology? An example from head and neck oncology”</i>	Tea Break	Prof. Deepak Gaur <i>“Infectious disease biology and vaccine development”</i>	Lunch Break	Dr. Prashanth Athri <i>‘Wide-data Bioinformatics: genesis, importance and a use case’</i>	Tea Break	Prof. Suneel Kateriya <i>“Basic Biology to Bio-Business: A Molecular Navigation from Green Algae to Human”</i>
Wed, December 30, 2020	Prof. Mukesh Jain <i>“Next generation sequencing methods for transcriptome analysis and discovery of candidate genes relevant to important agricultural traits”</i>		Dr. Saurabh Raghuvanshi <i>“The ‘Big Bs’ of Biological Sciences: Big Data and Biocuration”</i>		Prof. Shandar Ahmad <i>“Big Data Science and machine learning for life sciences”</i>		Prof. Sandeep Saxena <i>“The compelling role of non-coding RNAs”</i>
Thu, December 31, 2020	Prof. Dwaipayan Bharadwaj <i>“Human Genomics”</i>		Dr. Kashyap Dubey <i>“Impact of COVID-19 pandemic on water resources: Challenges and management strategies”</i>		Dr. Siva Ramalingam <i>“Targeted genome-editing: From basic research to biomedical applications”</i>		Dr. Girinath Pillai <i>“Machine Learning in Drug Discovery for Drug Candidate Selection”</i>
Fri, January 1, 2021	Prof. Pawan K. Dhar <i>“Synthetic Biology”</i>		Dr. Rita Sharma <i>“CRISPR/cas-mediated Engineering of Crop Plants”</i>		Dr. Girinath Pillai <i>“Application of Machine Learning in Biological Targets and Drug Discovery”</i>		Dr. Vijai Singh <i>“Exploring the Potential of Synthetic Biology”</i>
Sat January 2, 2021	<i>Project Work Research Design</i>		<i>Project Work Data tabulation & Analysis</i>		<i>Project Work Report Preparation</i>		<i>Project Work Presentation Preparation</i>

WEEK - II

DATE	09.30 am - 11.00 am	11:00 am – 11.30 am	11:30 am-01.00 pm	1:00 pm - 2:00 pm	2.00 pm - 3.30pm	3.30 pm – 3.45pm	3:45 pm - 5:15 pm
Monday January 4, 2021	Prof. Praveen Verma <i>“Recent Trends in Plant Science Research”</i>	Tea Break	Dr. Ravikumar Hosmani <i>“The fruit fly model for astronauts health - An emerging space life sciences research”</i>	Lunch Break	Dr. Viswanathan Chinnusamy <i>“Genome Editing for Functional Genomics and Crop Improvement”</i>	Tea Break	Dr. Mandira Roy <i>“Patenting Life Sciences and Biotechnology inventions”</i>
Tuesday, January 5, 2021	Dr. Meenu Kapoor <i>“Discerning Molecular Interactions Among Regulatory Proteins in Land Plants”</i>		Prof. Pratap Kumar Pati <i>“Plants, Technological Interventions and Human Health”</i>		Dr. Shashi Kumar <i>“Metabolic engineering of isoprenoid pathway for terpenoid drug biosynthesis in plant”</i>		Prof. Renu Vyas <i>“Computer Aided Drug Design with special emphasis on ML/AI based methods”</i>
Wednesday, January 6, 2021	Dr. Divya Chandran <i>“Single-cell and spatial transcriptomics using laser microdissection”</i>		Dr. Debarka Sengupta <i>Analysis of single cell gene expression data</i>		Dr. Chinchu Bose <i>“Waste is never a refuse but an opportunity in waiting- A phytochemistry perspective”</i>		Dr. Prashant Singh <i>“Molecular diagnostics and it’s role in disease management”</i>
Thursday, January 7, 2021	Prof. Binay Panda <i>“How to write a good research grant proposal and what to avoid?”</i>		Evaluation		Prof. Joseph Selvin <i>“Design and Creation of Synthetic Genomes and it’s applications”</i>		Prof. GPS Raghava <i>“Computer-aided Protein Therapeutics”</i>
Friday, January 8, 2021	Evaluation		Evaluation		Evaluation		Evaluation
Saturday January 9, 2021	Evaluation		Feedback Session		Feedback Session & Group Discussion among participants		Valedictory Session