Workshop on "Artificial Intelligence In Modern Biology" organized by ICGEB, New Delhi

Day 1 (23-08-2022)

Timings	Lecture	Speakers
09:00 - 09:30 am	Registration	
09:30 - 10:00 am	Workshop Inauguration by Director, ICGEB Introductory lecture by Organizer	Dr. Dinakar M. Salunke Dr. Dinesh Gupta
10:00 - 11:00 am	Basics of Machine Learning (ML)	Mr. Ayon Roy NielsenIQ, New Delhi
11:00 - 11:30 am	*Tea Break*	
11:30 - 12:00 pm	**In-house lecture series** *"Deep Learning models for identifying angle dysgenesis in-vivo using glaucoma ASOCT images."*	Dr. Shweta Birla Dhakonia TBG, ICGEB, New Delhi
12:00 - 01:00 pm	Basics of MATLAB	Mr. M.M.Zafar Manager - Technical support, DesignTech
01:00 - 02:00 pm	*Lunch*	
02:00 - 04:30 pm	**Hands-on**:- MATLAB (continue)	Mr. M.M.Zafar Manager - Technical support, DesignTech
04:30 - 05:00 pm	*Tea Break*	
05:00 - 06:00 pm	**Expert lecture series** *"AI for better CVD risk estimation using big data."*	Dr. Kumardeep Chaudhary IGIB, New Delhi

Day 2 (24-08-2022)

Timings	Lecture	Speakers
09:30 - 11:00 am	Basics of WEKA (ID tree, Random Forest, MLP, SVM)	Dr. Jayashree Ramana DBT APEX BTIC, ICGEB, New Delhi
11:00 - 11:30 am	*Tea Break*	
11:30 - 01:00 pm	**Hands-on**:- Basic of WEKA	Dr. Jayashree Ramana DBT APEX BTIC, ICGEB, New Delhi Assisted by Dr. Arun, Dr. Shweta, Dr. Kusum, Ms. Chhaya
01:00 - 02:00 pm	*Lunch*	
02:00 - 02:30 pm	**In-house lecture series** *"IRSVPred 2.0: A mobile application and web-server for deep learning -based prediction of major basmati paddy seeds varieties."*	Ms. Nimisha Tiwari TBG, ICGEB, New Delhi
02:30 - 04:00 pm	**Hands-on**:- "Identification & characterization of ncRNAs"	Dr. Sarika Sahu IASRI, New Delhi
04:00 - 04:30 pm	*Tea Break*	
04:30 - 05:30 pm	**Expert Lecture series** *"Artificial Intelligence and Genomics – A blended approach for unraveling some underlying complex trait phenomena in*	Dr. A.R.Rao IASRI, New Delhi

	plants."	
	Day 3 (25-08-2022)	
09:30 - 10:00 am	Basics of ML in Drug discovery/ General interactive session	Dr. Dinesh Gupta/ TBG team
10:00 - 11:00 pm	**In-house lecture series** "*Machine learning assisted drug discovery for SARS-CoV-2.*"	Dr. Arun Sharma DBT APEX BTIC, ICGEB, New Delhi
11:00 - 11:30am	*Tea Break*	
11:30 - 12:00pm	ASCoVPred Demo	Mr. Neeraj Chaturvedi TBG, ICGEB, New Delhi Assisted by Dr. Shahzaib, Mr. Shahnawaz, Mr. Hemant, Ms. Lalita
12:00 - 01:00 pm	**Expert Lecture Series** "*Context Dependent Biochemical Descriptors: A novel biology-backed approach for effective compounds modeling.*"	Dr. Gaurav Ahuja, IIITD
01:00 - 02:00 pm	*Lunch*	
02:00 - 03:30 pm	**Hands-on**:- Metabokiller	Ms. Aayushi Mittal, IIITD Mr. Sanjay Mohanty, IIITD Assisted by Ms. Neetu, Mrs. Sheeba , Mr. Hemant
03:30 - 04:30 pm	**Expert Lecture Series**	Dr. G.P.S Raghava IIITD
04:30 - 05:00 pm	**Closing session with High Tea**	