11 <sup>th</sup> Workshop on Bioinformatics and Drug Design: Artificial Intelligence (AI) and Machine Learning (ML) Based Methods April 18-20, 2023, Venue: Seminar Hall, Dr. B. R. Ambedkar Center for Biomedical Research (ACBR), University of Delhi, Delhi 110007			
Time	DAY 1 (18-04-2023)	DAY 2 (19-04-2023)	DAY 3 (20-04-2023)
8:30 - 9:00	Registration	<u></u> ( ( ( ( ( ( ( ( (	
a.m.			
Session I		Chairperson: Prof. K. Natarajan	Chairperson: Prof. Uma Chaudhry
	09:00 –10:00 a.m.: Prof. Madhu Chopra, ACBR, DU	9.30 – 10.30 am: Dr. Lipi Thukral, IGIB, New Delhi	9.30 – 10.30 am: Prof. Punit Kaur, AllMS, New Delhi
	Expertise: Computer aided drug design & development	Expertise: Computational Structural Biology	Expertise: Structural Bioinformatics
09.00 - 11.30	Topic: Introduction to molecular modeling, QSAR and virtual	Topic: Al-based Alphafold2 expands the structural	<b>Topic:</b> Digging through DNA Gyrase structure to unravel
a.m.	screening-based software tools	space of Autophagy	molecular nuances for Drug Design
(Day 1)	10:00 – 11:00 a.m.: Dr. Girinath Pillai, Lead Scientist,	10:30 – 11:30 a.m.: Dr. Mohd. Shoaib Khan,	10:30 – 11:30 a.m. Dr. Raja Mugasimangalam,
00.00 11.00	Sygnature Discovery, UK (online)	ACBR, DU	Founder and CEO,
09.30 - 11.30	Expertise: SAR, Machine Learning	Hands on training session	Genotypic Technology,
am (Day 2 & 3)	Topic: Drug Design using Generative Al		Bengaluru, India
(Duy 2 Q 3)	11.00 – 11.30 am	Expertise: Machine learning, Bioinformatics Topic: Python and its various libraries for Machine	Expertise: Genomics, Bioinformatics
	Welcome Address and Inauguration, Prof. Sunit K. Singh,	Learning	Topic: Genomics assisted drug design and recent developments in multi omics-based drug design
	Director ACBR & Chairperson workshop		developments in mate onnes susce and design
11-30 - 11:45	Tea Break	Tea Break	Tea Break
Session II	Chairperson: Dr. Alok C. Bharti	Chairperson: Prof. Daman Saluja	Chairperson: Dr. Kamna Shrivastava
11.45 am –	11:45 – 12:35 p.m.: Prof. Shandar Ahmad, JNU	11:45 – 12:35 p.m. : Dr. D. Sengupta, IIIT Delhi	11:45 – 12:35 p.m. Dr. Mohd. Shoaib Khan,
01.25 pm	Expertise: Protein-DNA interactions, Machine Learning, Deep	Expertise: Al and Big Data analytics in health sciences	Hands on training session
	Learning, Big Data Analysis	<b>Topic:</b> Enabling precision oncology with omics and AI	Topic: Target prediction using various Machine learning
	<b>Topic:</b> Artificial Intelligence and functional genomics in systems		algorithms
	level drug and target discovery		
	12.35 – 1.25 p.m.: Dr. Gitanjali Yadav, Staff Scientist V	12.35 – 1.25 p.m. Prof. D. K. Vishwakarma, DTU	12.35 – 1.25 p.m.
	NIPGR, New Delhi		
	Expertise: Computational ecology and system Biology.	Expertise: Machine Learning and Deep Learning Topic: Human Activity Recognition using Machine	Hands on training session continued
	<b>Topic:</b> Unpacking plant chemical arsenals by using ML and data mining strategies	Learning	
		-	
01.30 - 2.30	Lunch Break	Lunch Break	Lunch Break
p.m.	Chains an an Draf Mardha Channa	Chaimanna Dach Martha Chaiman	Chaimannan Dach Carrity Circult Director ACDD
Session III	Chairperson: Prof. Madhu Chopra	Chairperson: Prof. Madhu Chopra	Chairperson: Prof. Sunit K. Singh, Director ACBR
02:30 - 03:15	Dr. Mohd. Shoaib Khan, ACBR, DU Expertise: Machine learning, Bioinformatics	Mr. Prakash Jha, ACBR, DU Hands on training session	Dr. C. Vijay Kumar, INMAS-DRDO, Delhi Expertise: Artificial Intelligence and machine leaning in
p.m.	Topic: Python programming for Machine Learning, Libraries in	Expertise: Structural Biology, Bioinformatics	health sciences
P	Python for ML.	Topic: Molecular Dynamics using Gromacs	Topic: Computational Frameworks for the Integration of
			Multimodal Neuroimaging Information
03:15 - 03.30	Tea Break	Tea Break	Valedictory Function, concluding remarks and Vote
p.m.			of thanks
Session IV	Prakash Jha, ACBR, DU	Mr. Prakash Jha, ACBR, DU	
	Hands on training session	Hands on training session	Теа
03.30 - 5.30	Topic: Basic drug design and virtual screening	Topic: Activity prediction using WEKA: ML-based	
p.m.		methods	