Harnessing Artificial Intelligence for Multi-Omics Data Integration and Analysis  Organised by: Department of Biotechnology and Research  Sir Ganga Ram Hospital								
Sl. No.	Name	Topic	Remarks	Time				
		Day-1						
(15-10-2025)								
	Workshop		10:00 - 10:30					
01	Inauguration			10:30 - 11:00				
02	Introduction to Workshop			11:00 - 11:30				
	Tea Break			11:30 - 12:00				
Session	1: AI-Powered Geno	omics: From Evolutionary	y Insights to	Disease Modeling				
03	Prof. Gajendra P. S. Raghava	"Designing of Therapeutic Proteins using Advanced Machine Learning Techniques"	Talk	12:00 - 12:30				
04	Dr. Rajesh Pandey	Integrative Genomics and AI for Disease Modeling	Talk	12:30 - 01:00				
		ınch		1:00 - 2:00				
	: AI-Powered Precision							
05	Dr. Debarka Sengupta	AI in Single-Cell Genomics	Talk	2:00 - 2:30				
06	Dr. Vinod Scaria	Genomics & Precision Medicine	Talk	2:30 - 3:00				
	Tea	Break		3:00 - 3:30				
		Hands-on Session-01						
07		TQ Clinical diagnostics & Dry Demo	Hands-on	3:30 - 5:30				
		Day-2						
		(16-10-2025)						
	Metabolic Intelligence	e: Machine Learning and						
08	Dr. Binay R Panda	Metabolomics & ML Applications	Talk	10:00 - 10:30				
09	Dr. Kathik Raman	Metabolic Modelling & Network Biology	Talk	10:30 - 11:00				
Session 4: Al	utic Innovation							
10	Dr. Ravi Sirdeshmukh	Integrating AI with Genomics and Proteomics for Data Analysis	Talk	11:00 - 11:30				
<b>Tea Break</b> 11:30 - 12:00								

11	Dr. Bhabatosh Das	Live Biotherapeutics design using genomics and proteomics insights	Talk	12:00 - 12:30			
12	Dr. Debasis Dash	Computational Biology, Proteomics and AI in Healthcare	Talk	12:30 - 1:00			
	Lunch			1:00 - 2:00			
Session	Digital Healthcare						
Session 5: AI for Health: From Computational Drug Discovery to Digital Healthcare Innovation							
13	Dr. Andrew M. Lynn	AI-Driven Bioinformatics: Integrative Approaches in Computational Drug Discovery	Talk	2:00 - 2:30			
14	Dr. Harpreet Singh	Digital Health for equitable, affordable and safe healthcare	Talk	2:30 - 3:00			
	3:00 - 3:30						
	Hands-on	Session-02					
15	Dr. Saravanan Kumar	Advancements in Mass Spectrometry-From Discovery to Clinics & Dry Demo on metabolomics and Proteomics	Hands-on	3:30-5:30			
Gala/	Interactive Dinner a		tre	7:30 Onwards			
Guiu,	Gala/ Interactive Dinner at India International Centre 7:30 Onwards  Day-3						
		(17-10-2025)					
S	ession 6: Proteomics	Meets AI: Advancing Pre	cision Disea	se Detection			
14	Dr. Sanjeeva Srivastava	Proteomics & AI/ML- Driven Disease detection	Talk	10:00 - 10:30			
Session 7	: AI in Infectious Dis	ease: From Viral Diagnos	tics to Antiv				
15	Dr. Arvind Kumar	AI in Infectious Disease Diagnostics	Talk	10:30 - 11:00			
16	Dr. Vivek Dhar Dwivedi	Machine Learning- Driven Bioinformatics for Viral Data Analysis and Antiviral Drug Discovery	Talk	11:00 - 11:30			
	11:30 - 12:00						
Session 8: AI-Enabled Insights: From Cellular Chemical Biology to Non-Invasive Thermal Diagnostics							
17	Dr. Gaurav Ahuja	AI-Driven Chemical Biology: Decoding Cellular Responses	Talk	12:00 - 12:30			

18	Dr. Geeta Manjunath	AI-Powered Thermal Imaging for Non- Invasive Disease Detection	Talk	12:30 - 1:00			
	Lu	ınch		1:00 - 2:00			
Hands-on Session-03							
19	Team ILS Gurugram	Advanced sequencing based omics workflow	Hands-on	2:00 - 3:00			
20	Team ILS Gurugram	Multiomics in clinics & Research dry demo of NGS Platform	Hands-on	3:00 - 4:00			
	4:00 - 4:15						
21	Dr. Rintu Kutum	Reproducible Computational Workflow for Multiomics Integration from raw data to algorithms for biomarker discovery in biomedical research	Hands-on	4:15 - 5:15			
	5:15 - 5:30						