

















Time	Speaker	Title
07:45-08:15	Welcome reception	
08:15-09:00	Conference opening ceremony	
09:00-09:45	 Dr. Fatemeh Zare	Computational Innovation in the Design of Biological Molecules
09:45-10:05	Amir Mahdi Zhalefar	Enhancing Drug-Target Interaction Predictions through the Integration of Self-Organizing Maps and Graph-Based Representation Learning
10:10-10:30	Hassan Alavi	In-silico Drug Generation using Masked Language Modeling
10:30-11:00	Break and Poster Presentations	
11:00-11:45	 Dr. Chuan Xu	CellTypist and CellHint: Towards Automated Annotation and Integration of Single-Cell Data 
11:45-12:05	Seyedeh Fatemeh Sajjadi	Comprehensive Integrated Single-Cell RNA Sequencing Analysis of Brain Metastasis and Glioma Microenvironment: Contrasting Heterogeneity Landscapes
12:10-12:30	Amir Ebrahimi	A Contrastive Learning Framework for Single-Cell Multi-Omics Data Integration
12:30-14:00	Lunch and Poster Presentations	
14:00-14:45	 Dr. Mahya Mehrmohammadi	Classifying Somatic Mutation using Machine Learning-Based Approaches
14:45-15:05	Hassan Salarabadi	HETLN: A Hybrid Ensemble Model for Precise Localization of Breast Cancer Tumors in Radiotherapy Treatment
15:05-15:25	Donya Afshar Jahanshahi	Comprehensive Gene and Protein Catalog for Antimicrobial Environments: A Metagenomic Approach to Mitigate Antimicrobial Resistance
15:25-15:45	Zahra Bayat	Uncovering Disrupted Cell-Cell Interactions in Alzheimer's Disease Using Variational Graph Autoencoders on Single-Cell Spatial Transcriptomics Data
15:45-16:30	Break and Poster Presentations	
16:30-17:15	 Prof. Benjamin Raphael	Machine learning for Spatial Biology 
17:30-18:15	 Dr. Mohammad Lotfollahi	Generative Machine Learning to Model Cellular Perturbations 

Time	Speaker	Title
09:00-09:45	 Dr. Leila Safari	Leveraging Language Models and Deep Transformer Networks in CRISPR-Based Genome Editing
09:45-10:05	Roghayyeh Alipanahi	DTMP-Prime: A Deep Transformer-based Model for Predicting Prime Editing Efficiency and PegRNA Activity
10:10-10:30	Marzieh Khodadadi	Predicting Anticancer Drug Repurposing Candidates using Knowledge Graphs
10:30-11:00	Break and Poster Presentations	
11:00-11:45	 Dr. Sajjad Gharaghani	From Traditional Drug Design to Deep Generative Models: Revolutionizing Drug Discovery
11:45-12:05	Sajede Fadaei	A Knowledge Graph-Based Approach for Drug Repurposing Using Graph Neural Networks and Language Models
12:10-12:30	Sobhan Ahmadian Moghadam	Integrating Biological Networks and Deep Learning for Microbe-Disease Prediction
12:30-14:00	Lunch and Poster Presentations	
14:00-14:45	 Prof. Sofia Kossida	IMGT®, the International ImMunoGeneTics Information System® Current Endeavors and Future Perspectives 
14:45-15:05	Shahla Sahraei	Bioinformatic Approach to Predict the Regulatory Mechanisms: TF-miRNA-mRNA-lncRNA Network during Cluster Development in Grape 
15:05-15:25	Ali Yazdizadeh Kharrazi	Orthology inference at scale with FastOMA 
15:25-15:45	Break and Poster Presentations	
15:45-16:30	 Dr. Alireza Khanteymooori	Democratising Bioinformatics: Accessible and Scalable Data Analysis with Galaxy 
16:30-17:00	Conference closing ceremony	