

5th International Symposium on Bioinformatics

15-17 December 2021

DAY/DATE	GMT+3 / TRT		Day 1	Parallel Sessions-1: Big Data Analysis-Biotools/General Bioinformatics	Parallel Sessions-2: CADD/SARS-Cov2
	TIME (start)	TIME (end)	PROGRAM	Title / Authors	Title / Authors
Wednesday December 15, 2021	13:00	13:05	Opening		
	13:05	13:17	Oral Presentation	Mapping the Haplogroups of Indian and Zoroastrian-Parsi Mitochondrial Genome and Phylogenetic Analysis to Detect Incidences of Admixture <i>L Deepika Iyyengar, Jennifer John, Kiran Kumar Dj and Manohar Gm</i>	Interaction of Surface Glycoprotein of SARS-CoV-2 Variants of Concern with Potential Drug Candidates: A Molecular Docking Study <i>Anuj Mavlankar, Afzal Ansari, Dr. Mukul Sharma, Purna Dwivedi and Dr. Pushpendra Singh</i>
	13:17	13:19	Buffer		
	13:19	13:26	Poster Presentation	A Parallel Network Alignment Algorithm for Protein-Protein-Interaction Networks <i>Kayhan Erciyesh</i>	Graph Theoretical Network Analysis and Molecular Modeling of 3,4-dihydropyrimidine Derivative for Enhanced Cancer Activity <i>Selvaraj Kunjiappan</i>
	13:26	13:28	Buffer		
	13:28	13:35	Poster Presentation	Interaction Graph and Sequence-Based Huntingtin Protein Interactor Prediction Using Supervised Learning Techniques <i>Mohammed Golam Montaseer Alam and Animesh Ray</i>	Peptide Analogues of the Spike Glycoprotein Shows Antiviral Properties Against SARS-CoV-2: an <i>In silico</i> Study <i>Kunal Dutta</i>
	13:35	13:37	Buffer		
	13:37	13:49	Oral Presentation	START Finder Tool (START FIT): A Comprehensive Web Resource for Identification and Analysis of START Domains in the Plant Kingdom <i>Sanjeet Kumar Mahtha, Manish Kumar, Citu Citu and Gitanjali Yadav</i>	Graph Theoretical Network Analysis and <i>In silico</i> Molecular Modelling of Bioactive Compounds from <i>Amaranthus Spinosa</i> Against Hepatocellular Carcinoma <i>Vajrala Atchi Reddy, Harrish M, Dheepak R and Selvaraj Kunjiappan</i>
	13:49	13:51	Buffer		
	13:51	13:58	Poster Presentation	GeNetKEGG: Gene Expression Based KEGG PathWay Grouping and Scoring <i>Malik Yousef, Fatma Ozdemir, Amhar Jabeer, Jens Allmer and Burcu Bakir-Gungor</i>	<i>In silico</i> Analysis of High-Risk Missense Variants in Human ACE2 Gene and Susceptibility to SARS-CoV-2 Infection <i>Asmae Saih, Hana Baba and Meryem Bouqdayr</i>
	13:58	14:00	Buffer		
	14:00	14:07	Poster Presentation	Prediction of Anti-hepatitis C Peptides with Machine Learning Algorithms <i>Akash Saraswat, Arijit Maitra and Bipin Singh</i>	<i>In silico</i> and <i>In vitro</i> Elucidation of Bhallataka Compounds on Macrophage Polarization <i>Vijayalakshmi Muniyandi, Ram Kumar Pandian Sureshbabu, Selvaraj Kunjiappan and Sundar Krishnan</i>
	14:07	14:09	Buffer		
	14:09	14:21	Oral Presentation	IPANEMAP and ReDMaxH as Bioinformatic Tools for Better Inference of RNA Secondary Structure Using Experimental Probing Data <i>Afaf Saaidi</i>	Benchmarking Widely Used Structure Based Binding Energy Predictors on Spike/RBD-ACE2 Deep Mutational Scanning Dataset <i>Eda Şamiloğlu, Melis Oktayağlu, Can Yükrük, Mehdi Koşaca, Burcu Özden and Ezgi Karaca</i>
	14:21	14:23	Buffer		
	14:23	14:30	Poster Presentation	Differential Expression, Alternative Splicing and Interacting Networks of KCNMA1 in Bruneian Breast Cancer Patients <i>Salma Tariq, Dr. Zen Huat Lu, Dr. Lie Chen, Nurhalimah Basyirah Jamaludin, Siti Nur Idayu Haji Matusin, Dr. Hazim Ghani, Dr. Edwin Lim and Dr. Sowmya Rajaram, Danlei Bi</i>	Target Discovery and Annotation of Hypothetical Proteins from <i>Klebsiella pneumoniae</i> Identifies BCCT Family Protein Involved in Host-Pathogen Interaction <i>Pranavathiyan G and Archana Pan</i>
	14:30	14:32	Buffer		
	14:32	14:39	Poster Presentation	Effect of Protein-Protein Interactions Network Statistics in the Scoring the Pathogenicity of Single Nucleotide Variants <i>Kazım Kıvanç Eren, Hamza Umur Karakurt and Esra Çınar</i>	Complete AlphaFold2 Model Assessment of the Ryanodine Receptor 2 <i>Cemil Can Saylan and Sefer Baday</i>
	14:39	14:41	Buffer		
	14:41	14:53	Oral Presentation	Advanced Machine Learning Techniques for Multi-Label Medical Text Categorization <i>Rim Chaib and Nabiha Azizi</i>	Swift-Docking: Neural Network Based Method to Speed Up Molecular Docking <i>Sefer Baday and Abdulsalam Yazid Bande</i>
14:53	14:55	Buffer			
14:55	15:02	Poster Presentation	Co-Expression Network Analysis Reveals Novel Prognostic and Diagnostic Network Biomarkers in Cervical Cancer <i>Medi Kori, Esra Gov and Kazim Yalcin Arga</i>	<i>In silico</i> Analyses Identified the Importance of Matrix Metalloproteinases in Response of SARS-CoV-2 Infection in Human Bronchial Epithelial Cells <i>Hamza Umur Karakurt and Pınar Pir</i>	
15:02	15:04	Buffer			

15:04	15:11	Poster Presentation	Prediction of Linear Cationic Antimicrobial Peptides Active Against Gram Negative Bacteria Based on Machine Learning Models <i>Ümmü Gülsüm Söylemez, Zülal Kesmen, Mine Erdem Büyükkiraz, Malik Yousef and Burcu Bakır Güngör</i>	Internal Transcribed Spacer-2 Secondary Structure Analysis of Fasciola Species from Semi-wild Ruminants of North East India <i>Damanbha Lyngdoh, Veena Tandon and Bishnupada Roy</i>
15:11	15:13	Buffer		
15:13	15:25	Oral Presentation	Decoding Molecular Signatures of Pituitary Neuroendocrine Tumors' Subtypes Through Systems Biomedicine Perspective <i>Busra Aydin, Esra Yildirim and Beste Turanlı</i>	Genomic Characterization and Phylogenetic Analysis of SARS-CoV-2 Strains in Madhya Pradesh <i>Ajzal Ansari, Purna Dwivedi, Mukul Sharma, Subasa Chandra Bishwal, Anuj Mavlankar, Lalit Sahare, Mahendra Ukey, Purushottam Patel, Pradip V. Barde, Aparup Das and Pushpendra Singh</i>
15:25	15:27	Buffer		
15:27	15:34	Poster Presentation	DCNA: A New Tool for Differential Co-Expression Analysis of Gene Expression Data <i>Talip Yasir Demirtas and Esra Gov</i>	
15:34	15:36	Buffer		
15:36	15:43	Poster Presentation	Computational Analysis of the Potential Impact of MTC Complex SNPs Associated with Male Infertility <i>Houda Harmak, Hicham Charoute, Ouafaa Aniq Filali, Abdelhamid Barakat and Hassan Rouba</i>	
15:43	15:45	Buffer		
15:45	15:57	Oral Presentation	The Complete Chloroplast Genome of Wild Species <i>Lens tomentosa</i> and Comparative Genome Analysis with Cultivated <i>Lens culinaris</i> <i>Ayşenur Bozkurt, Yasin Kaymaz, Duygu Ateş, Hatice İkten, Cengiz Toker and Muhammed Bahattin Tanyolaç</i>	
15:57	15:59	Buffer		
15:59	16:11	Oral Presentation	Finding New Putative Genes Having Role in Excess Boron Responsive Mechanism from Probesets Identified as Unknown in Wheat Cultivars <i>Ceyhan Kayhan, Halis Batuhan Ünal, Oğuzhan Yaprak, Su Naz Mutlu, Melis Vuslat Tunç and Irmak Yılmaz</i>	

Thursday December 16, 2021 Session 1	GMT+3 / TRT		Day 2	Parallel Sessions-1: Big Data Analysis-Biotools/General Bioinformatics	Parallel Sessions-2: CADD/SARS-Cov2
	TIME (start)	TIME (end)	PROGRAM	Title / Authors	Title / Authors
	11:30	11:35	Opening		
	11:35	11:47	Oral Presentation	Genomic Insights of Bruneian Malay Genomes <i>Mirza Azmi, Daphne Lai, Lie Chen and Zen Huat Lu</i>	Plant Alkaloid Potential Antiviral Intercalating Drug Screening Through RNA-ligand Molecular Docking Methods: Early Test on SARS-CoV-2 RNA Fragment <i>Adhitya Wicaksono and Arli Aditya Parikesit</i>
	11:47	11:49	Buffer		
	11:49	11:56	Poster Presentation	A Machine Learning Approach to Predict in Vitro Efficacy of Human Lung Adenocarcinoma Proliferation Inhibitors <i>Naeem Abdul Ghafoor and Ayşegül Yıldız</i>	Pharmacoinformatics, Virtual Screening, and Molecular Dynamics Simulation Towards Identification of Inhibitors Against Human Pathogenic Lujo-Virus 6GH8 Target <i>Mohammed Emon, Jovel Varghese Jose, Eshaan Agarwal, Masadoluwa Agbonyin, Sanjana Fatema Chowdhury, Karthika R, Ayush Panda, Maurya Sharma, Ayesha Saman Hawaldar, Jaskeerat Singh, Anjali Sharma, Hameed Sanusi, Emmanuel Ifeanyi Attah and Siddhant Sharma</i>
	11:56	11:58	Buffer		
	11:58	12:05	Poster Presentation	Genotypic Characterization of Salt Tolerance in Rice <i>Shanalın Joyal And Vengadesan V</i>	An Integrative Approach for Melanoma Therapy: Combining Computational Drug Repositioning and Molecular Docking Methods <i>Edanur Akarsu, Saliha Ece Acuner, Beste Turanlı and Feyza Maden</i>
	12:05	12:07	Buffer		
	12:07	12:19	Oral Presentation	Predator: Predicting The Impact of Cancer Somatic Mutations on Protein-protein Interactions <i>Ibrahim Berber, Cesim Erten and Hilal Kazan</i>	Evaluation of Antagonist Activity of Ifenprodil and Their Analogous Against GluN1/GluN2B Using In-Silico Molecular Docking and ADME Toxicity <i>Mallari Praveen and Vijay Paramanik</i>
	12:19	12:21	Buffer		
	12:21	12:28	Poster Presentation	Network Analysis of Antibiotic Resistant and Virulence Genes in <i>Acinetobacter Baumannii</i> Ab030 for the Identification of Hub Genes <i>Joshua Steve Abishek B, John Britto A, Mohanraj V And Vigneshwar Ramakrishnan</i>	Comparing the Effect of Glycerol and DMSO on the Dynamics of EcoRI Enzyme: A Molecular Dynamics Simulation Study <i>D Aathithya and Vigneshwar Ramakrishnan</i>
	12:28	12:30	Buffer		
	12:30	12:37	Poster Presentation	Comparative Evaluation of Binding Affinities of Peptide Ligands to Hla-b Alleles Differentially-associated with Type 1 Diabetes Mellitus (t1dm) <i>Peshala Amarajeewa, Aslihan Özcan, Pemra Özbek Sarıca, Malgorzata A. Garstka and Onur Serçinoğlu</i>	Ligand Based Pharmacophore Modelling and Virtual Screening Studies for the Discovery of Natural Product Based PDE3/4 Dual Inhibitors <i>Jia Le Lim and Anand Gaurav</i>

12:37	12:39	Buffer		
12:39	12:51	Oral Presentation	Microbiomenet : Finding Taxonomical Biomarkers in Human Microbiome Amhar Jabeer, Burcu Bakir-gungor and Malik Yousef	Evaluation of the Impact of DNA Mismatches in PCR Primers to Detect SARS-CoV-2 Variants of Concern Using a Thermodynamic Model <i>Pâmella Miranda, Gerald Weber and Vivianne Basilio Barbosa</i>
12:51	12:53	Buffer		
12:53	13:00	Poster Presentation	Integrated Bioinformatics Analysis Reveals Key Genes and Pathways in Lung Cancer Mohita Mahajan and Sukanta Mondal	Blood Group Susceptibility Shifts in COVID-19 Variant Infection Rates <i>Atreyi Mandal, Monisha Krishnan and Pooja K.</i>
13:00	13:02	Buffer		
13:02	13:14	Oral Presentation	Scituna: A Network Alignment Approach for Integrating Multiple Single-cell Rna-seq Datasets Yacine Marouf, Hilal Kazan and Cesim Erten	
13:14	13:16	Buffer		
13:16	13:23	Poster Presentation	Ivo-Lirova: An Artificial Intelligence (AI) Program for Maintaining Health Condition <i>Viona Pricillia and Nanda Rizqia Pradana Ratnasari</i>	

Session 2	TIME (start)	TIME (end)	PROGRAM	Title / Authors	Title / Authors
	14:00	14:05	Opening		
	14:05	14:12	Poster Presentation	Comparative Study of K-Means, K-Medoids, Hierarchical Clustering, Density Based Clustering and Distribution Based Clustering Methods on Stunting Cases in Indonesia <i>Nanda Rizqia Pradana Ratnasari and Ganda Putri Maya Ardana</i>	<i>In silico</i> Molecular Docking Analysis of the Flavone Galangin Against Epigenetic Enzymes <i>Madhumitha Kedhari Sundaram, Asha Inbanathan and Arif Hussain</i>
	14:12	14:14	Buffer		
	14:14	14:21	Poster Presentation	Leprosy Information Tool <i>Ishirjan Chandok, Mukul Sharma and Pushendra Singh</i>	Isoprenyl Caffaeate As a Potential Quorum Sensing Inhibitor in Aliivibrio Fischeri ATCC 7744 <i>Eric Kat Jun Low, Wai Sum Yap, Ayesha Fatima and Crystale Siew Ying Lim</i>
	14:21	14:23	Buffer		
	14:23	14:35	Oral Presentation	Deep Learning-Based Approach for Cardiac Image Interpretation: Case Study of VGG16 and ResNet20 <i>Assia Boukhamla, Nabih Azizi and Samir Brahim Belhouari</i>	QSAR, ADMET and Molecular Docking Studies of Some Novel Xanthines Derivatives for Anti-Pancreatic Cancer <i>Abubakar Siddiq Salihu and Ahmed Salisu</i>
	14:35	14:37	Buffer		
	14:37	14:44	Poster Presentation	Deciphering Functional Role of Microsatellites Enriched Genes in Arachis Species <i>Simerpreet Kaur and Prakash Chand Sharma</i>	The Role of Epigenetic Remodeling in COVID-19 Infection <i>Simran Preet Kaur</i>
	14:44	14:46	Buffer		
	14:46	14:58	Oral Presentation	Annotations of Novel Antennae-Expressed Genes in Male Glossina morsitans morsitans tsetse flies <i>Billiah Bwana and Paul Mireji</i>	<i>In silico</i> Design of Anti-DENV-2 NS2B/NS3 Peptide Inhibitors <i>Thai Leong Lai and Adam Leow Thean Chor</i>
	14:58	15:00	Buffer		
	15:00	15:07	Poster Presentation	Molecular Dynamic Simulation of Interaction Between Crimean-Congo Haemorrhagic Fever Virus Glycoprotein and Epidermal Growth Factor Receptor (EGFR) <i>Sena Atasever and Tuğba Arzu Özal Ildeniz</i>	Discovery of Antibiotic Candidate for Extended Spectrum Beta-lactamase Using Multitarget Resistance Machine Learning <i>Eri Prasetyo Nugraha, Dennaya Kumara, Muhammad Fandy Noor Aziz and Naufa Hanif</i>
	15:07	15:09	Buffer		
	15:09	15:21	Oral Presentation	Comparison of Random Forest and XGBoost Approaches to Classify Invasive Ductal Carcinoma and Invasive Lobular Carcinoma <i>Mieke Nurmalasari and Setia Pramana</i>	Complete Chloroplast Genome Sequence of Lens lamottei and Comparative Analysis with Lens culinaris <i>Selda Kurt, Yasin Kaymaz, Duygu Ates, Hatice Ikten, Cengiz Toker and Muhammed Bahattin Tanyolaç</i>
	15:21	15:23	Buffer		
	15:23	15:35	Oral Presentation	Investigation of Molecular Mechanism of Ankylosing Spondylitis by Multi-Omics Data Integration <i>Kerem Uzala, Fevziye Nuran Özcan and M. Erkan Karabekmez</i>	Sequencing of Lens ervoides Chloroplast Genome and Comparison with Lens culinaris Chloroplast Genome <i>Nurbanu Tayşi, Yasin Kaymaz, Duygu Ates, Hatice Ikten, Cengiz Toker and Muhammed Bahattin Tanyolaç</i>
	15:35	15:37	Buffer		
	15:37	15:49	Oral Presentation	Biomarker Identification in Ductal Breast Carcinoma Through Gene Clustering and Classification Using Machine Learning Techniques <i>Ghazala Sultan and Swaleha Zubair</i>	
	15:49	15:51	Buffer		
	15:51	16:03	Oral Presentation	Novel Targets of the WNT/ β -Catenin Pathway Discovered Using Gene Expression Data Mining <i>Cemre Kefeli and Andres Aravena</i>	