

"Pakistan Society for Biochemistry and Molecular Biology"

on

Recent Advances & Challenges in Molecular Biology, Biochemistry & Biotechnology

being hosted by

Centre for Advanced Drug Research (CADR)



August 25 - 27, 2/16

Program Book





COMSATS Institute of Information Technology, Abbottabad

Recent Advances & Challenges in Molecular Biology, Biochemistry and Biotechnology Conference Programme

	Day 1, Thursday					
	25-08-2016					
Opening	Session					
9:45	Guest to be seated					
9:55	Arrival of the Chief Guest at the Venue					
10:00	Recitation from the Holy Quran					
10:05	Introduction to the conference by Prof. Dr. Jamshed Iqbal, Chairman Conference Organizing Committee					
10:20	Welcome address by Prof. Dr. Khan Gul Jadoon, Director, CIIT Abbottabad					
10:30	Address by the Chief Guest					
10:40	Keynote address by Prof. Dr. S. M. Junaid Zaidi, Rector, CIIT					
10:50	Address by General Secretary of Pakistan Society for Biochemistry and Molecular Biology					
11:00	Photo session					
	11:10-11:30					
	Refreshment					
	Chair: Prof. Dr. Edda Tobiasch; Co-Chair: Prof. Dr. M. Waheed Akhtar					
	PROF. M.I.D. CHUGHTAI MEMORIAL LECTURE					
	High efficacy and safety of bioactive phytochemicals based on their interaction at multiple target sites					
11:30	Prof. Dr. Anwar-ul-Hassan Gilani					
	Chairman, Pakistan Council for Science & Technology, Islamabad; Aga Khan University Medical College, Karach					
	Pakistan PROF. AT-UR-REHMAN MEMORIAL LECTURE					
	Regulation of nucleotide signaling by NTPDase 1 coordinates vascular and non-vascular smooth muscle contraction:					
	implication for male fertility					
12:15	Prof. Dr. Jean Sevigny					
	Department of Microbiology-Infectiology and Immunology, Faculty of Medicine, Université Laval, Centre de					
Recherche du CHU de Québec - Université Laval, Quebec, Canada						
_	13:00-14:00					
	Lunch & Prayer break					

Chair: Pr	on Hall No. 1, of. Dr. Irfan S Ahmad Prof. Dr. Nisar ur Rehman		Chair: P	sion Hall No. 2, rof. Dr. Jean Sevigny r: Prof. Dr. Arshad Pervez	
14:00	Prevalence of asthma and allergies in children and Adolescents Dr. Birka Lehmann Executive Department EU & International Affairs of the Federal Institute for Drugs and Medical Devices (BfArM), Germany	Germany	14:00	Define a system to improve production of recombinant proteins in plants Dr. Kasra Esfahani National Institute for Genetic Engineering and Biotechnology (NIGEB), Tehran, Iran	Iran
14:30	Micro Factories for Macro Jobs Prof. Dr. Faiz-ul-Hassan Nasim Department of Chemistry, The Islamia University of Bahawalpur, Bahawalpur, 63000, Pakistan	Bahawalpur	14:30	Characterization of mango (Mangifera indica L.) transcriptome Dr. M. Kamran Azim Dr. Panjwani Center for Molecular Medicine and Drug Research, ICCBS, University of Karachi	Karachi
14: 50	Genetic variants of Cholestery! Ester Transfer Protein Gene effects the development of Cardiovascular Disease in Pakistani patients Dr. Akhtar Ali Department of Molecular Biology, Virtual University of Pakistan, Lahore	Lahore	14:50	Mammary tumor associated HSPB1 mutation and screening of eight cat populations of the world Dr. Rashld Salf Department of Biotechnology, Virtual University of Pakistan, Lahore 54000, Pakistan	Lahore
15:10	High Expression of Chaperone Member 60 in Association with Pro-apoptotic Complex Caspase-3 in Hepatocellular Carcinoma Dr. Rizma Khan Department of Molecular Genetics, Ziauddin University Hospital, Karachi-Pakistan	Karachi	15:10	The Applications of Machine Learning Methods in Genome Analysis Dr. Muhammad Tariq Pervez Department of Bioinformatics and Computational Biology, Virtual University of Pakistan	Lahore
		15:3	0-16:00		
		Tea	Break		
Chair: Pı	ssion - Hall No. 1, of. Dr. Iftikhar Raja Prof. Dr. Khalid Mohammed Khan		Chair: D	session - Hall No. 2, r. Birka Lehmann r: Prof. Dr. Gul Faraz	
16;00	Diabetic management by biochemical means Prof. Dr. Khalid Mohammed Khan H. E. J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi, Karachi	Karachi	16:00	Atomic Force Based Morphological Assay for the synergistic action of silver and gold nanoparticles on resistance anti-biotic Dr. Muhammad Raza Shah II.E.J. International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan	Karachi

D	OAAD Alumni Meeting 17:00-18:	:00	-	17.00-10.50	
PSBME	3 Executive Council Meeting 16:	00-17:00		Poster Presentation 17:00-18:30	
16:45	Tetrazole linked tetrahydronicotinonitriles as cholinesterase inhibitors: Probing the reaction mechanism via computational method Dr. Abdul Hameed H. E. J. Research Institute of Chemistry, International Center for Chemical and Biological Sciences, University of Karachi	Karachi	16:45	Antibiotic Stewardship at Charitable Hospital of Karachi, Pakistan Dr. Muhammad Ali Ghoto Affiliation: Department of Pharmaceutics, Faculty of Pharmacy, University of Sindh Jamshoro, Pakistan	Jamshoro
16:30	University of the Punjab, Lahore, Pakistan. Terbufos sulfone, an organophosphate aggravates toxicity in diabetic rats. Dr. Syed Muhammad Nurulain Department of Biosciences, COMSATS Institute of Information Technology, Islamabad	Islamabad	16:30	Attenuation of haloperidol-induced hyperkinetic motor disorders and oxidative stress: effect of rice bran oil Dr. Noreen Samad Department of Biochemistry, BZU, Multan.	Multan
16:15	Isolation of a herbicidal constituent (Z)-docos-5-en-1-oic acid from culture filtrates of <i>Drechslera hawaiiensis</i> for the management of <i>Rumex dentatus</i> Dr. Arshad Javaid Institute of Agricultural Sciences, University of the Punish Labora, Political	Lahore	16:15	Characterization and Evolutionary Genomics of LTR Retrotransposons in <i>Brassica</i> Dr. Faisal Nouroz Bioinformatics Laboratory, Department of Bioinformatics, Hazara University Mansehra, Pakistan	Mansehra

GALA DINNER 19:00-21:00

DAY 2, Friday 26-08-2016

First Ses	sion Hall No. 1,		First Session	- Hall No. 2,		
Chair: P	hair: Prof. Dr. Maroof Shah		Chair: Prof. Dr. Faiz ul Hassan Nasim			
Co-Chair: Prof. Dr. Fauzia Yusuf Hafeez		Co-Chair: Dr. Taous Khan				
8:30	Adult Stem Cells Combined with Artificial P2 Receptor Ligands are Promising Tools to Functionalize Scaffolds for Future Bone Tissue Engineering Prof. Dr. Edda Tobiasch Department of Natural Sciences, Bonn- Rhine-Sieg University of Applied Sciences, Germany	Germany	8:30	Thermophilic Adaptation of Glycoside Hydrolase Dr. Fu-Li Li Key Laboratory of Biofuels, Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Sciences, Qingdao, China	China	
9:15	Understanding Life in Motion; From Atoms to Particles Dr. Zaheer U1-Haq Dr. Panjwani Center for Molecular Medicine and Drug Research, ICCBS, University of Karachi	Karachi	9:15	Unraveling the pharmacological potentials of ecto-nucleoside triphosphate diphosphohydrolase, ecto-nucleotide pyrophosphatase/phosphodiesterase, ecto-5'-nucleotidase, and alkaline phosphatase inhibitors Mr. Mobasher Ali Abid Centre for Advanced Drug Research (CADR), Department of Pharmacy, COMSATS Institute of Information Technology (CIIT) Abbottabad, Abbottabad-22060, Pakistan	Abbottabad	
9:50	Cadmium Resistance Mechanism: Escherichia coli P4 and Its Potential Use in Wastewater Treatment Dr. Abdul Rehman Department of Microbiology and Molecular Genetics, University of the Punjab, Quaid Azam Campus, 54590, Lahore, Pakistan	Lahore	9:50	Immobilization of Thermostable Dextranase on Chitosan Hydrogel Microspheres using Covalent Crosslinking Technique Dr. Afsheen Aman Dr. A. Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi-75270, Pakistan	Karachi	
10:10	Ascorbate deficiency influences the leaf cell wall glycoproteome in Arabidopsis thaliana Dr. Nighat Sultana Department of Biochemistry, Hazara University, Mansehra	Mansehra	10:10	Apolipoprotein E4 Exaggerates Dyslipidemia In Type 2 Diabetic Patients Dr. Sehrish Fatima Dr. A. Q. Khan Institute of Biotechnology & Genetic Engineering (K1BGE), University of Karachi, Karachi, Pakistan	Karachi	

10:30-11:00

Tea Break

			Second Sector	m Hall No. 2		
	econd Session - Hall No. 1, hair: Prof. Dr. Fu-Li Li o-Chair: Prof. Dr. S. Tufail Hussain Sherazi		Second Session - Hall No. 2,			
_ 			Chair: Prof. Dr. Abid Azhar			
Co-Cha <u>ir</u>			Co-Chair: Dr. Imran H Khan			
11:00	Bionanotechnology for Agricultural, Food, and Biomedical Systems to Address Global Challenges Prof. Dr. Irfan S Ahmad Center for Nanoscale Science and Technology, Micro and Nanotechnology Laboratory, Prairie Research Institute, University of Illinois at Urbana-Champaign	USA	11:00	Disease Biomarkers for Studies on Tuberculosis (TB) and TB Diagnostic Applications Dr. Imran H. Khan Department of Pathology and Laboratory Medicine, School of Medicine, University of California, Davis	USA	
11:45	Green Synthesis, Characterization and Antibacterial Potential of Silver Nanoparticles and Bacteriocins Dr. Asma Ansari Dr. A. Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi-75270, Pakistan	Karachi	11:45	In silico identification of putative bifunctional PLK1 inhibitors by virtual screening and structural dynamics approaches Dr. Nousheen Bibi Department of Bioinformatics, Hazara University Mansehra, Pakistan	Mansehra	
12:05	Synthesis of poly-3-hydroxybutyrate by Bacillus cereus FC11 and its biomedical applications Dr. Farha Masood Department of Microbiology, Quaid-i-Azam University (QAU), Islamabad, Pakistan	Isla m abad	12:05	High variability of Interferon Alpha Gene of Major Histocompatibility Complex Class I sequences in Endangered Punjab Urial Dr. Tanveer Hussain Virtual University of Pakistan, Lahore,	Lahore	
12:25	Transcriptome analysis of parasitic hymenoptera: A novel approach for the development of innovative plant protection strategies Dr. Zain ul Abdin Department of Entomology, University of Agriculture, Faisalabad, Pakistan	Faisalabad	12:25	Biodegradation of toxic organics in industrial effluent using biosimulator Dr. Seema Jilani Institute of Environmental Studies, University of Karachi, Karachi	Karachi	
12:45	Homology Modelling and Molecular Docking Studies of Alkaline Phosphatase Inhibitors Dr. Mariya al-Rashida Department of Chemistry, Forman Christian College (A Chartered University), Lahore 54600, Pakistan.	Lahore	12:45	Identification and Characterization of New MHC-Peptide Loading Enhancers from Diverse Chemical Nature for Development of Vaccines Dr. Saifullah Afridi ^{1,2} ¹Centre for Advanced Drug Research (CADR), Department of Pharmacy, COMSATS Institute of Information Technology (CIIT) Abbottabad,	Abbottabac	

				Abbottabad-22060, Pakistan. ² Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270, Pakistan	
			00-14:00		
		Lunch &	Prayer break		
Chair: P	ssion - Hall No. 1, rof. Dr. G A Miana r: Dr. Zaheer ul Haq Qasmi		Chair: Prof.	n - Hall No. 2, Dr. Peter Langer r. Nadeem Shaikh	
14:00	Engineering Nanoparticles for Pharmaceutical and Biomedical Applications Dr. Irshad Hussain Department of Chemistry, SBA School of Science & Engineering (SSE), Lahore University of Management Sciences (LUMS), DHA, Lahore, Pakistan	Lahore	14:00	Workshop	
14:30	Current Status, Trends and Opportunities in Animal Genomics in Pakistan Prof. Dr. Masroor Ellahi Babar Virtual University of Pakistan, Lahore	Lahore	14:40	Kynurenine pathway and its metabolites in mental illnesses: Potential therapeutic intervention by manipulation of the pathway Prof. Dr. Samina Bano Clinical Biochemistry and Psychopharmacology Research Unit, Department of Biochemistry, University of Karachi, Karachi, Pakistan	Karachi
14:50	Comparison of maternal serum lipoproteins in normal pregnancy and primiparous patients with eclampsia Dr. Nabila Sher Khyber Girls Medical College, Peshawar	Peshawar	15:00	Role of Lactobacillus delbruecki ssp bulgaricus to Induction of Probiotics and Antibacterial properties in Dahi Dr. Talat Mahmood University of Haripur, KPK	Haripur
15:10	Genetic diversity of local population of Myrothecium roridum and their relationship with geographical origin and virulence against Myrothecium leaf spot disease of bitter gourd Dr. Salik Nawaz Khan Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan.	Lah ore	15:15	In perceptive of new multi-targeting neurotherapeutics against Parkinson Disease: discovery of MOA-AChE inhibitors and molecular modelling investigations Dr. Sumera Zaib Centre for Advanced Drug Research (CADR), COMSATS Institute of Information Technology (CIIT) Abbottabad, Abbottabad-22060, Pakistan	Abbottabad

15:30-16:00

Poster presentation & Tea Break

EXCURSION TOUR

16:00-20:00

DAY 3, Saturday

27-08-2016

First Sess	irst Session: Hall No. l hair: Prof. Dr. Muhammad Ashraf o-Chair: Dr. Irshad Hussain		First Session: Hall No. 2 Chair: Prof. Dr. Mukhtiar Hassan Co-Chair: Dr. Kamran Azim		
8:30	Engineering a systems level understanding of cancer: Cells, Matrix and New Models Prof. Dr. Hamid M Zaman Department of Biomedical Engineering and Howard Hughes Medical Institute Boston University Boston, MA, USA	USA	8:30	Microvesicles shed from microglia represent a new pathway of glia-to-neuron communication Prof. Dr. Peter Langer Head of Organic Section, Institut für Chemie, Universität Rostock Albert-Einstein-Str. 3a, 18059 Rostock, Germany	Germany
9:15	Proteomics: Recent trends and Applications Prof. Dr. Shamshad Zarina National Center for Proteomics, University of Karachi	Karachi	9:15	Proteomics for Identification of Cancer Biomarkers Dr. Saima Sadaf Institute of Biochemistry and Biotechnology, University of the Punjab, Lahore-54590, Pakistan	Lahore
9:45	Comparative Study of ADRs due to Hypertensive Medications Dr. Mudassar Iqbal Arain Faculty of Pharmacy, University of Sindh Jamshoro	Jamshoro	9:45	Anti-microbial activities of ZnO nanoparticles synthesized via coprecipitation technique Prof. Dr. Ghosia Lutfullah Centre of biotechnology and microbiology, University of Peshawar, Peshawar	Peshawar
10:00	Overcoming the Biggest Threat and an Emerging Crisis by Natural and Synthetic Inhibitors Dr. Saba Farooq Dr. Panjwani Center for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, University of Karachi, Karachi.	Karachi	10:00	Cell Free DNA Quantification and Methylation Status of DCC gene as Predictive Diagnostic Biomarkers of Lung Cancer in Patients Reported at Gulab Devi Chest Hospital, Lahore. Muhammad Shahbaz Aslam Institute of Biochemistry & Biotechnology, University of the Punjab, Lahore	Lahore
10:15	Effects of high energy nutritional supplement drinks on appetite, appetite hormones, gastric emptying and energy intake	Peshawar	10:15	Application of organometallic compounds: A detailed study of their anticancer potential against Human cancer cell lines and their mechanism of action	Abbottabad

	Khyber Medical University, Peshawar			Syeda Abida Ejaz Centre for Advanced Drug Research (CADR), COMSATS Institute of Information Technology (CIIT) Abbottabad, Abbottabad-22060, Pakistan.	
	-	10:3	0-11:30		_
	P	oster presenta	ation & Tea Brea	k	
	ession - Hall No. 1,		Second Session	· ·	
	rof. Dr. Hamid M Zaman			or. Shamshad Zarina	
Co-Chair	r: Dr. Jabbar Shah		Co-Chair: Pro	of. Dr. Irshad Hussain	
11:30	Stem Cell Aging and Antioxidants: Expanding the Possibilities of Cell -based Therapies Dr. Hana Iqbal Panjwani Centre for Molecular Medicine and Drug Research, International Center for Chemical and Biological Sciences, Karachi	Karachi	I1:30	Compositional analysis and structural characterization of partially hydrolyzed Sterculia urens gum Dr. Hira Munir Department of Molecular Biology and Biochemistry, University of Gujrat	Gujrat
11:50	Fuli Genome Phylogenetic and Geographically analysis of Dengue Virus serotype 3 Isolates across the globe. Dr. Abrar Hussain Department of Microbiology. Faculty of life sciences and informatics Balochistan University of Information Technology, Engineering and Management sciences Quetta	Quetta	11:50	Therapeutic potential of Taraxacum officinale against HCV NS5B polymerase: in vitro and in silico study Dr. Sidra Rehman Department of Environmental Sciences, COMSATS Institute of Information Technology (CIIT) Abbottabad, Abbottabad-22060, Pakistan	Abbottabad
12:10	Bio-efficacy of Tea (Camellia sinensis) leaves blend with Cinnamon (Cinnamomum cassia) Dr. Razia Noreen Department of Applied Chemistry and Biochemistry, GC University, Faisalabad	Faisalabad	12:10	Hydroxyurea induced modifications in plasma proteome of β-thalassemia patients Muhammad Zohaib National Center for Proteomics, University of Karachi	Karachi
12:30	Comparison of microbial communities associated with halophyte (Salsola stocksii) and non-halophyte (Triticum aestivum) Salma Mukhtar Department of Biological Sciences, Forman Christian College (A Chartered University), Ferozepur Road, Lahore 54600, Pakistan.	Lahore	12:30	Elastomeric Free-Form Blood Vessels for Interconnecting Organs on Chip Systems Syeda Mahwish Bakht Centre for Advanced Drug Research (CADR), COMSATS Institute of Information Technology (CIIT) Abbottabad, Abbottabad-22060, Pakistan.	Abbottabad
Clos	sing ceremony/ PROF. ZAFAI		DI Best Post	ter Award/ PSBMB General	Body

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