



ONLINE CONFERENCE PROGRAM

Conference on Recent Advances in Applied Biosciences (CRAABS)

30th - 31st March, 2021

Department of Biology

Lahore Garrison University, Lahore, Pakistan

Day 1 Tuesday, 30 March 2021	
Opening Ceremony 9:00 am- 11:30 am	
Host: Mr. Hammad Arshad	
9:00 am	Participant Log in to Zoom
10:00 am	Participation of the Chief Guest
10:05 am	Recitation of the Holy Quran and Naat
10:10 am	LGU Documentary
10:20 am	Welcome Address by Dean Basic Sciences
10:30 am	Prof. Dr. Zabta Khan Shinwari Synthetic Biology: The whole new world <i>Professor Emeritus, Plant Sciences, Quaid-i-Azam University, Islamabad-Pakistan</i>
10:50 am	Prof. Dr. Safia Ahmed Medical bioremediation: Prospects for the application of microbial catabolic abilities for several compounds involved in pathogenesis of major age-related diseases <i>Dean Biological Sciences, Quaid-i-Azam University, Islamabad-Pakistan</i>
11:10 am	Address by the Chief Guest Major General Shahzad Sikander, HI(M) (Retired) Vice Chancellor LGU
11:20 am	Vote of thanks by Chairperson Department of Biology
Break (11:40 am - 11:50 am)	
Plenary Session 1 (11:50 am - 1:00 pm)	
Moderator: Mr. Hammad Arshad	
Session Chair I	Prof. Dr. Safia Ahmed <i>Dean Biological Sciences, Quaid-i-Azam University, Islamabad-Pakistan</i>
Session Chair II	Prof. Dr. Sikandar Sultan <i>Chairman, Institute of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan</i>
Invited Speaker 1	Prof. Dr. Rani Faryal

	Past and present of indigenous vaccines: An opportunity for entrepreneurial biologists of Pakistan <i>Microbiology, Quaid-i-Azam University, Islamabad-Pakistan</i>	
Invited Speaker 2	Prof. Dr. Naeem Ali Electrochemical performance of biocathode microbial fuel cells using petroleum contaminated soil and hot water spring <i>Microbiology, Quaid-i-Azam University, Islamabad-Pakistan</i>	
Invited Speaker 3	Dr. Safee Ullah Chaudhary Spatiotemporal profiling of microbial and heavy metal load in Hudiara wastewater and groundwater and their health impacts <i>Department of Biology, SBA School of Science and Engineering, Lahore University of Management Sciences. Lahore</i>	
Concluding Remarks (12:50 - 1:00 pm)		
Technical Session 1 Animal Biotechnology (1:00 - 1:45 pm)		Technical Session 2 Applied Microbiology (1:00 - 1:45 pm)
Moderator: Ms. Asmara Imtiaz		Moderator: Ms. Humaira Ramazan
Session Chair I: Dr. Saima Sharif <i>Department of Zoology, Lahore Women University, Lahore, Pakistan</i> Session Chair II: Dr. Bushra Nisar Khan <i>Department of Zoology, University of the Punjab, Lahore, Pakistan</i>		Session Chair I: Dr. Saba Butt <i>Institute of Biological Sciences, Forman Christian College University, Lahore</i> Session Chair II: Dr. Iram Liaqat <i>Department of Zoology, Government College University, Lahore</i>
Presenter 1: Ms. Amoon Danial Molecular and Serologic evaluation of Bovine Herpes Virus 1 at the Cattle-Goat Interface in Lahore, Pakistan <i>Institute of Microbiology, University of Veterinary and Animal Sciences, Lahore, Pakistan</i>		Presenter 1: Dr. Iram Liaqat Quorum sensing controls biofilm formation in marine isolates <i>Department of Zoology, Government College University, Lahore</i>
Presenter 2: Dr. Haiba Kaul PIT1 gene polymorphism and its association with milk composition in Holstein Friesian and Sahiwal Cattle <i>Department of Animal Breeding and Genetics, University of Veterinary and Animal Sciences, Ravi Campus, Pattoki, Pakistan</i>		Presenter 2: Dr. Uzma Jabeen Antifungal activity of plant extracts against toxigenic isolates of <i>Aspergillus terreus</i> from poultry feed <i>Department of Zoology, University of Veterinary and Animal Sciences, Lahore.</i>
Presenter 3: Dr. Iffat Huma Effect of storage conditions on the stability of a commercial live lyophilized Newcastle disease vaccine <i>Institute of Microbiology, University of Veterinary and Animal Sciences, Lahore.</i>		Presenter 3: Ms. Rimsha Dilshad Isolation and characterization of secondary metabolite producing bacteria from Tatta Pani hot spring <i>Institute of Microbiology and Molecular Genetics, University of Veterinary and Animal Sciences, Lahore.</i>
Presenter 4: Dr. Noureen Sarwar		Presenter 4: Dr. Naureen Naeem

<p>Effect of Probiotics in Combination with Vaccination on Antibody Response, Biochemical and Hematological Indices in Broilers <i>Institute of Microbiology, University of Veterinary and Animal Sciences, Lahore.</i></p>	<p>Emerging Trends for Antimicrobial food packaging alternatives with Chitosan nanocomposite films <i>Department of Biology, Lahore Garrison University, Lahore, Pakistan</i></p>
<p>Concluding Remarks (1:45 - 2:00 pm)</p>	
<p>Lunch and Prayer Break (2:00 - 2:30 pm)</p>	
<p>Technical Session 3 Computational Biology and Health Biotechnology (2:30 - 4:00 pm)</p>	<p>Technical Session 4 Waste Treatment and Industrial Biotechnology (2:30 - 4:00 pm)</p>
<p>Moderator: Ms. Asmara Imtiaz</p>	<p>Moderator: Ms. Humaira Ramazan</p>
<p>Session Chair I: Dr. Ambreen Ahmad <i>Department of Botany, Punjab University, Lahore Pakistan</i></p> <p>Session Chair II: Dr. Yasir Rehman <i>Department of Life Sciences, University of Management and Technology, Lahore, Pakistan</i></p>	<p>Session Chair I: Dr. Nazia Jamil <i>Institute of Microbiology and Molecular Genetics, Punjab University, Lahore Pakistan</i></p> <p>Session Chair II: Dr. Rida Batool <i>Institute of Microbiology and Molecular Genetics, Punjab University, Lahore Pakistan</i></p>
<p>Presenter 1: Ms. Faiza Ghazanfar SIRT1: Role of phosphorylation and O-GlcNac interplay in anti-aging <i>Institute of Microbiology, University of Veterinary and Animal Sciences, Lahore</i></p>	<p>Presenter 1: Ms. Ambreen Sabir Bioremediation of heavy metals in industrial wastewater using fungi <i>Department of Biology, Lahore University of Management Sciences, Lahore, Pakistan</i></p>
<p>Presenter 2: Dr. Misbah Irshad Synthesis, Pharmacological Evaluation, Molecular Docking and Cytotoxicity Studies on Some N-Substituted 5-[(4-Chlorophenoxy) Methyl]-1,3,4-Oxadiazole-2yl-2-Sulfanyl Acetamides <i>Department of Chemistry, University of Education Township Campus Lahore</i></p>	<p>Presenter 2: Ms. Asma Kalsoom Effect of chromium (VI) on chromate tolerant bacterial strain AKR2 isolated from tannery effluent <i>Institute of Microbiology and Molecular Genetics, University of the Punjab, Lahore</i></p>
<p>Presenter 3: Dr. Saima Naz Bioactivity guided Isolation of active compounds from Cannabis sativa essential oil and their biological applications <i>Department of Chemistry, University of Education, Lahore, Multan campus, Pakistan</i></p>	<p>Presenter 3: Ms. Sara Mustafa Isolation and characterization of heavy metal resistant bacteria from fish <i>Institute of Microbiology and Molecular Genetics, University of the Punjab, Quaid-e-Azam Campus, Lahore, Pakistan</i></p>
<p>Presenter 4: Dr. Haiba Kaul</p>	<p>Presenter 4: Dr. Sidra Safdar</p>

<p>Molecular and genetic basis of inherited eye diseases in consanguineous Pakistani families <i>Animal Breeding and Genetics Department, University of Veterinary and Animal Sciences, Ravi Campus, Pattoki, Pakistan</i></p>	<p>Recycling of Municipal Organic Waste into a Low Cost Soil Conditioner using Vermitechnology <i>Dept of Wildlife and Ecology, University of Veterinary and Animal Sciences, Ravi Campus, Pattoki University of Education, Lahore, Multan campus, Pakistan</i></p>
<p>Presenter 5: Dr. Shaukat Ali Evaluation of sericin as an anticancer agent against hepatocellular carcinoma induced by carbon tetrachloride in mice <i>Department of Zoology, Government College University, Lahore, Pakistan</i></p>	<p>Presenter 5: Dr. Shagufta Saeed Valorization of locally available waste plant leaves for production of tannase and gallic acid by solid-state fermentation <i>Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences-UVAS, Lahore, Pakistan</i></p>
<p>Presenter 6: Dr. Ishtiaq Ahmad Designing Derivatives of Anti-rheumatics and Selection of Lead Compounds as Possible Drug Candidate(s) <i>Institute of Industrial Biotechnology, Government College University, Lahore, Pakistan</i></p>	<p>Presenter 6: Dr. Aisha Khalid Maximal Production of Industrially Important Hyperthermophile Cellulase under Optimized Cultivation Conditions <i>Department of Biochemistry, University of Management and Technology, Daska Road, Sialkot Campus</i></p>
<p>Presenter 7: Ms. Shan e Zahra DNA Compression using RLIBC Algorithm <i>Department of Computer Science, Lahore Garrison University, Pakistan</i></p>	<p>Presenter 7: Dr. Muhammad Muddassir Ali Trace metal analysis in water, bovine and human lymphocytes from industrial areas of Lahore and Gujranwala <i>Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences Lahore, Pakistan</i></p>
<p>Presenter 8: Dr. Aqeela Ashraf Assessing Microbiological Quality of Raw Milk and Identification of Pathogenic Bacteria <i>Department of Biology, Lahore Garrison University, Lahore, Pakistan</i></p>	<p>Presenter 8: Ms. Humaira Ramazan Biodegradation of keratin wastes: environmental impacts and industrial applications <i>Department of Biology, Lahore Garrison University, Lahore, Pakistan</i></p>
<p>Concluding Remarks (3:50 - 4:00 pm)</p>	
<p>Day 2 (Wednesday 31st March 2021)</p>	
8:00 am	Participant Log in to Zoom
8:50 am	Recitation of the Holy Quran
<p>Plenary Session 2 (9.00 am - 10:15 am)</p>	
<p>Moderator: Ms. Beenish Sarfaraz</p>	
Session Chair I	Prof. Dr. Hamid Mukhtar

	<i>Director Institute of Industrial Biotechnology, Government College University, Lahore, Pakistan</i>
Session Chair II	Dr. Abdul Rehman <i>Institute of Microbiology and Molecular Genetics, Punjab University, Lahore</i>
Invited Speaker 1	Prof. Dr. Hamid Mukhtar Green synthesis of biodiesel through Lipase Mediated Transesterification of non-conventional oils and Exhaust Emission Studies <i>Institute of Industrial Biotechnology, Government College University, Lahore, Pakistan</i>
Invited Speaker 2	Prof. Dr. Zulfiqar Ali Wildlife monitoring and data analysis <i>Institute of Zoology, University of the Punjab, Lahore, Pakistan</i>
Invited Speaker 3	Dr. Abdul Rehman Metal resistance strategies of <i>Microbacterium sp.</i> strain 1S1 isolated from polluted environment challenged with arsenite <i>Institute of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan</i>
Concluding Remarks (10:15 - 10:30 am)	
Technical Session 5 Clinical and Diagnostic Research & Biomaterials and Biopolymers (10:30 am - 12:00 pm)	
Moderator: Ms. Asmara Imtiaz	
Session Chair I: Dr. Shaukat Ali <i>Department of Zoology, Government College University, Lahore, Pakistan</i>	
Session Chair II: Dr. Shagufta Naz <i>Department of Zoology, Lahore College For Women University, Lahore, Pakistan</i>	
Presenter 1: Ms. Sadia Nawaz WNT10A missense mutation associated with a complete Odonto-Onycho-Dermal Dysplasia syndrome <i>Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences (UVAS), Lahore, Pakistan</i>	
Presenter 2: Ms. Ayesha Akram Expression analysis of microRNA-221 in chronic HCV infected patients treated with sofosbuvir and daclatasvir <i>Centre for Applied Molecular Biology (CAMB), University of Punjab, Lahore, Pakistan</i>	
Presenter 3: Dr. Shagufta Naz Prevalance of syndromic intellectual disability in children in Punjab population <i>Department of Zoology, Lahore College For Women University, Lahore, Pakistan</i>	
Presenter 4: Ms. Samar Mustafa Evaluating the environmental dissemination of antimicrobial resistance by highlighting ESKAPEE bacteria as AMR reservoirs <i>Institute of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan</i>	
Presenter 5: Ms. Naima Khan	

<p>Comparison of mechanical and chemical methods for the extraction of bio-plastic <i>Institute of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan</i></p>
<p>Presenter 6: Ms. Kiran Nasir Production & Screening of Natural Biopolymers by Halophilic Bacterial Strains Isolated from Khewra Salt Mine <i>Institute of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan</i></p>
<p>Presenter 7: Ms. Wajeeha Hamid Synthesis of Silver Nanoparticles from <i>Azadirachta indica</i> and their Antimicrobial Activity Against some Pathogenic Bacteria <i>Department of Biology, Lahore Garrison University, Lahore, Pakistan</i></p>
<p style="text-align: center;">Concluding Remarks (12:00 – 12:15 pm)</p>
<p style="text-align: center;">Technical Session 6 Food and Agriculture Biotechnology & NanoBiotechnology (12:30 pm – 2:00pm)</p>
<p style="text-align: center;">Moderator: Ms. Afeefa Choudhry</p>
<p>Session Chair I: Dr. Muhammad Asad Ali <i>Institute of Microbiology, University of Veterinary and Animal Sciences, Lahore, Pakistan</i></p>
<p>Session Chair II: Dr. Shaista Gillani <i>Department of Chemistry, Lahore Garrison University, Lahore Pakistan</i></p>
<p>Presenter 1: Dr. Sehrish Firyal Molecular understanding of immunity genes in dairy mastitis <i>Institute of Biochemistry and Biotechnology, University of Veterinary and Animal Sciences (UVAS), Lahore, Pakistan</i></p>
<p>Presenter 2: Dr. Abdul Ghaffar Cyclic nucleotide gated ion channels 19 play important role to combat salt stress in <i>Arabidopsis thaliana</i> <i>Department of Biochemistry, Government College University, Faisalabad, Pakistan</i></p>
<p>Presenter 3: Dr. Nabila Gulzar Influence of Hen Egg White Lysozyme N-acetylmuramide Glycan Hydrolase on the Antimicrobial activity and textural characteristics of high moisture Mozzarella Cheese <i>Department of Dairy Technology, University of Veterinary and Animal Sciences, Lahore, Pakistan</i></p>
<p>Presenter 4: Dr. Fozia Anjum Fungal Extraction of Metals from Municipal Waste Incinerator Bottom Ash and Conversion into Nano Bio Fertilizer <i>Department of Chemistry, Government College University, Faisalabad, Pakistan</i></p>
<p>Presenter 5: Ms. Syeda Tasmia Asma Fabrication of Cu Nanoclusters based Thiolated Chitosan Nanocarriers Loaded with Levofloxacin and their Evaluation for Antimicrobial Analysis against MDR Bacteria <i>Institute of Industrial Biotechnology, Government College University (GCU), Lahore, Pakistan</i></p>
<p>Presenter 6: Ms. Nayyab Sultan Anti-hyperglycemic effect of <i>Momordica charantia</i> extract with the combination of silver and zinc oxide nanoparticles in streptozotocin induced diabetic mice</p>

<i>Institute of Industrial Biotechnology, Government College University, Lahore, Pakistan</i>	
Presenter 7: Mr. Hammad Arshad	
<i>Salvadora persica</i> Mediated Synthesis of Silver Nanoparticles for Antimicrobial Applications	
<i>Department of Biology, Lahore Garrison University, Lahore, Pakistan</i>	
Concluding Remarks (2.00 – 2:15 pm)	
Lunch & Prayer Break (2:15 - 3:00 pm)	
Closing Ceremony (3:00 – 4:00)	
Host: Ms. Beenish Sarfraz	
3:00 pm	Recitation of the Holy Quran
3:05 pm	Prof. Dr. Shahida Hasnain Unveil the Secret Life of Phyllosphere <i>Professor Emeritus, Institute of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan</i>
3:25 pm	Prof. Dr. Anjum Nasim Sabri Effect of Neutron Irradiation and Electrolysis on Dispersion and Eradication of Biofilms from Discharge Hospital Outlets <i>Institute of Microbiology and Molecular Genetics, University of the Punjab, Lahore, Pakistan</i>
3:45 pm	Remarks by the Major General Shahzad Sikander, HI(M) (Retired) Vice Chancellor LGU
3.55 pm	Vote of Thanks by Dean Basic Sciences