

SCIENTIFIC PROGRAM

MMG 2018

7-9 February 2018

A Conference on Microbiology & Molecular Genetics



Organized by

Department of Microbiology & Molecular Genetics, University of the Punjab

In Collaboration with

Department of Allied Health Sciences, The Superior College Lahore

Hall A:	Al-Razi Hall, Centre for Undergraduate Studies
Hall B:	Auditorium, Institute of Biochemistry and Biotechnology
Hall C:	Khorana Auditorium, Institute of Chemistry
Hall D:	Committee Room, Centre for Undergraduate Studies

Order of talks may change during sessions

IL: Invited Lecture, T: Talk and P: Poster followed by numbers indicating their location in their respective sections, i.e. Invited lectures, oral presentations and poster presentations, in the abstract



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Day 1: Wednesday February 7, 2018

Venue: Auditorium Punjab University Law College

08:00-09:00 REGISTRATION, GUESTS TO BE SEATED

INAUGURAL SESSION	
TIME	PROCEEDINGS
09:00-09:10	Recitation from Holy Quran and Naat
09:10-09:20	Welcome Address Prof. Dr. Anjum Nasim Sabri
09:20-09:30	Dr. Sumaira Rehman Pro-Rector, Superior University
09:30-09:45	Patron in Chief Prof. Dr. Muhammad Zakria Zakar Vice Chancellor, University of the Punjab
09:45-10:30	Chief Guest Prof. Dr. Atta-ur-Rahman, FRS, UNESCO Science Laureate, President NASIC <i>"Higher Education, Science, Technology and Innovation for Socio-economic Development"</i>
10:30-10:45	Vote of thanks
10:45-11:15	REFRESHMENT / POSTER SESSION

	HALL-A	HALL-B		HALL-C
11:15-11:45	Prof. Dr. A.R. Shakoori (SBS, PU) (IL008) <i>Osteogenic Potential of Herb, Cissus quadrangularis: Effect of Organic Solvent Extracts on Differentiation of Mouse Pre-osteoblast Cell Line MC3T3-E1</i>	Prof. Dr. Kauser A. Malik (FCCU) (IL009a) <i>Metagenomics of hypersaline environment and microbiome of halophytes as a source of osmotegulatory genes</i>		Prof. Dr. Fauzia Yusuf (CIIT) (IL010) <i>Eco-friendly Biological Agents; Current and Future perspective of Food Security</i>
11:45-12:15	Prof. Dr. Naim Deniz AYAZ (Turkey) (IL002) <i>Public health threat of food-borne bacterial pathogens: One health approach</i>	Dr. Paul Ebner (USA) (IL003) <i>Phage Therapy: Obstacles and Opportunities to Commercialization</i>		Dr. Christine Ann Seers (Australia) (IL004) <i>The virulence complex of the pathogen Porphyromonas gingivalis</i>
12:15-13:40	HALL-A TECHNICAL SESSION IA Antimicrobials	HALL-B TECHNICAL SESSION IB Virology	HALL-C TECHNICAL SESSION IC Soil & Agriculture	HALL-D TECHNICAL SESSION ID Biochemistry
12:15-12:35	Prof. Dr. Ajaz Rasool (IL011) <i>Industrial Enzymes Diversity from Single Biofactory</i>	Dr. Shafiq ur Rehman (T090) <i>A Bacteriophage RS with Segmented Double Stranded DNA Genome RS against Multi Drug Resistant Pseudomonas aeruginosahas very Unique Characteristics</i>	Dr. Anwar Hussain (IL021) <i>Endophytic fungi Fusarium culmorum Pz11 senses flavonoids and IAA signals to locate and colonize maize root</i>	Dr. Kaleem Ullah (IL019) <i>Proteomic analysis reveals novel binding partners of SSAO in human endothelial cell</i>
12:35-12:55	Dr. Imran Sajid (T095) <i>Actinomycetes Flora of Pakistan: A Valuable Resource of Novel Bioactive Molecules</i>	Iqbal A. Alvi (T023) <i>A Single Dose of Lytic Bacteriophage RLP Can Inhibit Growth of Multi Drug Resistant Pseudomonas aeruginosa for 20 Hours</i>	Dr. Arshad Javed (T007) <i>Fungal Metabolites as Natural Herbicides</i>	Dr. M. Tayyab (T031) <i>Production and Characterization of Protease from Geobacillus SBS-4S</i>
12:55-13:10	Dr. Khajista Jabeen (T025) <i>Appraisal of Antifungal Potential of Selected Plants against Rhizoctonia solani Kåæhn</i>	Fasiha Qurashi (T016) <i>First Report Molecular Characterization of Complete Monopartite Begomovirus Complex Infecting Parthenium Hysterophorus in Pakistan</i>	Ayesha Siddiqa (T012) <i>Evaluation Of Growth Promotion in Lens culinaris By Bacillus Spp. with Inorganic Fertilizers and Subsequent Selenium Bio-Fortification</i>	Dr. Rubina Nazli (T057) <i>Adipokine Serum Visfatin Level in Pregnancy Induced Hypertension and Uncomplicated Pregnancy</i>
13:10-13:25	Adeela Fatima (T002) <i>Screening of Desert Actinomycetes against Methicillin Resistant Staphylococcus aureus (MRSA)</i>	M. Aleem Ashraf (T036) <i>A Computational Approach to Gene Silencing of Cotton Leaf Curl Kokhran Virus-Lucknow Determines Potential Host-Derived MicroRNAs in Gossypium hirsutum</i>	Maria Khawer (T028) <i>Evaluation Of Genotoxicity Of Pesticides (Lufenuron And Emamectin) Using the Allium cepa Assay</i>	Dr. Abid Sheikh (T034) <i>DNA Methyltransferase 3b (Dnmt3b) Mediated Regulation Of Dipeptidyl Peptidase 6 Expression and Its Novel Function During Retinoic Acid Induced Neuronal Differentiation of P19 Cells</i>
13:25-13:40	M. Farooq (T033) <i>Antibacterial Activity of Endophytic Fungi Isolated from Local Medicinal Plants of Mansehra</i>	M. Asif (T039) <i>Isolation, Characterization and Agenome Analysis of Lytic Bacteriophage TAC1: An Exceptionally High Burst Size Dna Phage</i>	Rabiya Ikram (T052) <i>Biological Control of Fusarium wilt of Tomato by Indigenous Bacillus Strains</i>	Dr. Yousra Saeed (T082) <i>Role of RING Finger Protein 10 (Rnf10) during RA Induced Neuronal Differentiation of Stem Cells</i>
13:40-14:30	LUNCH / PRAYER			

14:30-16:40	HALL-A TECHNICAL SESSION IIA Antimicrobials	HALL-B TECHNICAL SESSION IIB Immunology	HALL-C TECHNICAL SESSION IIC Soil & Agriculture	HALL-D TECHNICAL SESSION IID OMICS
14:30-14:50	Dr. Abdul Sadiq (IL022) <i>Synthesis and exploration of new antimicrobial agents: Combined research from synthetic and natural origins</i>	Dr. Naheed Mojjani (IL005) <i>Effect of Salmonella Specific Immunoglobulin Y extracted from Immunized Lohmann Hens and Probiotic bacteria against Salmonella Infection</i>	Dr. Basharat Ali (T096) <i>Indole-3-acetic acid (IAA) production by rhizobacteria was associated with improved growth and yield of Triticum aestivum L. under drought stress</i>	Dr. Kashif Ali (T024) <i>Metabolic Fingerprinting: Classification of Grapevine Using NMR and Multivariate Data Analyses</i>
14:50-15:10	Dr. Rabia Tanvir (T049) <i>IndoPak Medicinal Plants and their Associated Endophytes</i>	Dr. Numan Javed (T048) <i>Novel Host inflammatory responses against Methicillin Resistant Staphylococcus aureus (MRSA)</i>	Dr. Salik Nawaz (T094) <i>Impact of Climate change plant diseases distribution in Punjab, Pakistan</i>	Dr. Samreen Riaz (T065) <i>In-silico and Proteomic Analysis for Lipid Lowering Therapy by Using Olea europea in the Patients of Diabetes Mellitus</i>
15:10-15:25	M. Abbas (T038) <i>Himalayan (Pakistan) Actinomycetes as a Source for Novel Antimicrobial and Anticancer Agents</i>	Asima Rani (T009) <i>Role of Rs8177374 Single Nucleotide Polymorphism in TIRAP Gene in Modulation of Cytokines Level upon Plasmodium Exposure in the Pakistani Population</i>	Arslan Sarwar (T008) <i>Biological Control of Potato Common Scab with Rare Isatropolone C Compound Produced by Plant Growth Promoting Streptomyces AIRT</i>	Hafsa Amat ur Rasool (T019) <i>Comparative In Silico Screening of Synthetic Molecules and Dietary Phytochemicals as Inhibitors Of Human Acetylcholinesterase (hAChE) And Designing of New More Potent Anti-Alzheimer Drug Candidates</i>
15:25-15:40	M. Salman Rasool (T041) <i>Induction of Ampicillin Resistance in Escherichia coli and Salmonella typhi</i>	Farah Qudsia (T015) <i>Prevalence of IgM and IgG in Pediatric Patients Suspected Of Having Typhoid Fever</i>	Sumaira Anwar (T073) <i>Screening of Rhizospheric Actinomycetes for Various In-vitro and In-vivo Plant Growth Promoting (PGP) Traits and for Agroactive Compounds</i>	Salma Mukhtar (T062) <i>Understanding the effects of soil salinity on rhizosphere microbiome assemblage</i>
15:40-15:55	M. Usman Qamar (T043) <i>Molecular insight of NDM-1 -5 and -7 producing Gram-negative pathogens isolated from children</i>	Marium Rais Khan (T053) <i>Analysis of Novel Single Nucleotide Polymorphisms in Various Exons Of SYK Gene in Atopic Airways Allergic Patients</i>	Dr. Asif Raheem (T093) <i>Halotolerant rhizobacteria: Beneficial plant metabolites and growth enhancement of Triticum aestivum L. in salt amended soils</i>	Dr. Sehrish Firyal (T070) <i>Antimicrobial Resistance in Staphylococcus aureus Recovered from Bovine Mastitis</i>
15:55-16:10	Shahida Mangi (T071) <i>Isolation and Characterization of Bioactive Compounds from Calotropis procera L. for Treating Infections Caused by Multi-Drug Resistant Pathogenic Bacteria</i>	Rubab Ameen (T056) <i>The Association of Vitamin D level with Smoking</i>	Sabiha Habib (T060) <i>Auxin-Producing Rhizobacteria as Bioremediating Agents to Minimize Chromium Toxicity in Chromium Contaminated Areas</i>	Tabassam Razaq (T077) <i>Antibacterial Screening and In Silico Validation of 1, 2, 4-Triazole-3-Thione Derivatives against MDR Escherichia Coli</i>
16:10-16:25	Rabia Tabassum (T051) <i>Isolation and Molecular Characterization of Lytic Bacteriophage Against Multidrug Resistant Klebsiella pneumoniae and Assessment of its Biofilm Removal Capacity</i>	M. Sohail (T064) <i>Extra Virgin Olive Oil as a Lipid lowering Therapy in Diabetic Patients of Lahore Region</i>	Zulquernain Haider (T088) <i>Occurrence of Gram Negative Pathogenic Bacteria in Ready to Eat Leafy Vegetables from Lahore</i>	Arslan Sarwar (Scholarship Opportunities)
16:25-16:40		Nesheman Huma (T046) <i>Optimization of Molecular Based Technique for Rapid and Sensitive Detection of Citrus tristeza virus</i>	Tehmina Anjum (T079) <i>Bio-Degradation of Aflatoxin B1 and B2 in Stored Maize using Plant Extracts</i>	

CITY TOUR

Day 2: Thursday February 8, 2018

	HALL-A		HALL-B	
09:00-9:30	Prof. M. Fiaz Qamar (UVAS, Jhang) (IL015)		Prof. Dr. Shahida Hasnain (MMG, PU) (IL009)	
09:30-11:05	HALL-A TECHNICAL SESSION IIIA Biotechnology	HALL-B TECHNICAL SESSION IIIB Environmental Microbiology	HALL-C TECHNICAL SESSION IIIC Medical Microbiology	HALL-D TECHNICAL SESSION IIID Diagnostic Techniques
09:30-09:50	Dr. Kamran Shoukat (IL006) <i>The Problem of Listeria in Food Industry</i>	Prof. Dr. Firdaus-e-Bareen (IL012a) <i>Forlorn Calls to Pakistan for Composting - A Thus Far Unachievable Ideal</i>	Dr. Hazir Rehman (IL018) <i>Salmonella typhi: Prevalence and Drug Resistance Signature</i>	Dr. Shaukat Iqbal Malik (IL017) <i>Radioprotective effect of amifostine on cells from cancer prone patients and healthy individuals studied by the G2 and PCC & Cytogenetics G2 assays for Cancer diagnosis at high Cytotoxic level</i>
09:50-10:05	Dr. Neelma Munir (T045) <i>Effect of Temperature and pH on Biomass and Lipid Production of Ulothrix</i>	Amina Elahi (T005) <i>Cr⁶ Reducing Potential of Staphylococcus sciuri (A-HS1) Isolated from Industrial Wastewater</i>	Dr. M. Ali Syed (T042) <i>Detection and Molecular Characterization of Methicillin-Resistant Staphylococcus aureus from Table Eggs in Haripur, Pakistan</i>	Shahbaz Aslam (T040) <i>Cell Free DNA Quantification and Methylation Status of DCC gene as Predictive Diagnostic Biomarkers of Lung Cancer</i>
10:05-10:20	Sara Junaid (T069) <i>Cyanobacteria and Microalgae - Role in Development of Biofuels (Lipids)</i>	Anwar Hussain Phulpoto (T006) <i>Newly Developed Multi-Species Bio-Testing Approach for Toxicity Assessment of Biodegraded Xenobiotics</i>	Dr. Khalid Mahmood (T098) <i>Current Extended Spectrum beta-lactamases production in Salmonella typhi</i>	Dr. Sana Khurshid (T067) <i>Improved Immunoassay Using TB16.3-Echa1 Fusion Protein for Serodiagnosis of Tuberculosis</i>
10:20-10:35	Zill-e-Huma Aftab (T086) <i>Qualitative Screening of Different Fungal Strains Potentially Strong Toward Laccase Biosynthesis, Isolated from Different Locations of Pakistan.</i>	Fatima Muccee (T017) <i>Isolation and Molecular Characterization of Toluene Metabolizing Bacteria from Tannery Effluent</i>	Noor ul Ain (T047) <i>Molecular Analysis of Metallo-Beta-Lactamase Producing Multi-Drug Resistant Clinical Isolates from a Tertiary Care Hospital</i>	Madeeha Afzal (T026) <i>Multi-Epitope Fusion Antigens of Mycobacterium tuberculosis for enhancing sensitivity in Serodiagnosis of Tuberculosis</i>
10:35-10:50	Rabia Saeed (T050) <i>Biofuel production from algae</i>	Maria Khawer (T029) <i>Assessment of Airborne Bacteria from Orthopedic Wards of different Hospitals in Lahore</i>	Sumyyia Abrar (T066) <i>Molecular Epidemiology of Extended Spectrum β-Lactamase producing Clinical isolates from tertiary care hospital, Lahore, Pakistan</i>	Shaista Nosheen (T072) <i>Preliminary Analysis of the Role of Lipase and Kinase in Lipid Metabolism in the Mucor circinelloides</i>
10:50-11:05	Tabbassum Kiran (T078) <i>A Mono Designed Medium for the Simultaneous Production of Carboxy Methyl Cellulase (CMCase) and Amylase by an Indigenously Isolated Thermophilic Strain Bacillus licheniformis TLW-3</i>	M. Tariq (T032) <i>Isolation and Molecular Characterization of Chromium Resistant Staphylococcus aureus from Industrial Effluent</i>	Hayat Haider (T097) <i>Phenotypic and Molecular characterization of CTX-M encoding Beta-lactamases from Clinical Enterobacteriaceae</i>	
11:05-11:30	POSTER SESSION / REFRESHMENT			

	HALL-A	HALL-B	HALL-C
11:30-13:20	TECHNICAL SESSION IVA Human Genetics	TECHNICAL SESSION IVB Environmental Microbiology	TECHNICAL SESSION IVC Nanobiotechnology
11:30-11:50	Dr. Kashif Nawaz (T076) <i>Genetic Etiology of Coronary Artery Disease Considering EDN1 Gene Variant rs5370</i>	Dr. A. Rehman (T001) <i>Use of Microorganisms: A Strategy to Clean Industrial Wastewater</i>	Dr. Saira Riaz (IL016) <i>From Technology to Treatment - Nano Structures at Work</i>
11:50-12:10	Dr. Shabana (T044) <i>Common FTO Gene Variants and Obesity in Pakistani Population</i>	Dr. Saba Shamim (T058) <i>Characterization of Thermostable Amylase from Bacillus Species and its Potential Application in Food Industry</i>	Dr. Mahwish Bashir (T027) <i>Effect of Microwave Radiation on Structural and Magnetic Properties of Fe₃O₄ Doped Zirconia Nanoparticles and their Antibacterial Study</i>
12:10-12:25	Dr. Humaira Yasmeen (T022) <i>Distribution of Xmn1-158 T³G Variant in Beta Thalassemia Major in Pakistan</i>	Dr. Salaam Temitope (IL007)	Hera Naheed Khan (T020) <i>Green synthesis, Characterization and Toxicity Studies of Plant Synthesized Gold Nanostructures</i>
12:25-12:40	Warda Fatima (T081) <i>Gene Polymorphisms of DISC1 are Associated with Schizophrenia: A Family Based Study</i>	Saba (T059) <i>Arsenic Bioremediation Through Indigenous Bacterial Isolates in Two Different Modes of Growth</i>	Attia Awan (T010) <i>Antifungal Activities of TiO₂ Nanotubes</i>
12:40-12:55	Faiza Aziz (T014) <i>Effect of Incubation Time of Adipose Tissue on Stem Cell Regenerative Potential</i>	Samina Parveen (T063) <i>Acute and Sub-acute Toxicity of Chloroform and Idoform (DBPs) on Common Carp</i>	Bushra Saeed Bukhari (T013) <i>Microwave Assisted Sol Gel TiO₂ Doped Zirconia Nanocrystallites for Dental Fillers</i>
12:55-13:10	Sanober Kafeel (T068) <i>Effect of 50bp Ins/Del Polymorphism in Superoxide Dismutase 1 Gene on its Expressional Variability in Diabetic Cataractogenesis</i>	Uzma Irfan (T080) <i>New Record of Rust Fungi from Northern Areas of Pakistan & Azad Jammu & Kashmir</i>	M. Imran (T037) <i>Glair Mediated Biocompatible Synthesis of Fe₃O₄ Stabilized Zirconia Coatings for Dentistry</i>
13:10-13:25	Sumbal Sarwar (T074) <i>Variable Number of Tandem Repeats (VNTR) of Criminal Gene Monoamine Oxidase A (MAO-A) in Pakistani Population</i>	Dr. Zaman Khan (T083) <i>Heavy Metal Resistant Pichia hampshirensis 4Aer, Isolated from Industrial Effluent and Its Potential Use in Cadmium Removal from Wastewater</i>	Robina Ashraf (T055) <i>Effect of Surfactants and Calcination Temperature On the Magnetic Properties of Sol-Gel Synthesized Biocompatible Fe₃O₄ Nanoparticles</i>
13:25-13:40			Saira Saeed (T061) <i>Silver Nanoparticles Synthesis By Bacterial Metabolites and Their Significant Effect Against Human Pathogens</i>
13:25-14:15	LUNCH		

	HALL-A	HALL-B	HALL-C
14:15-15:20	TECHNICAL SESSION VA Cancer Biology	TECHNICAL SESSION VB Biofilms	TECHNICAL SESSION VC Public Health
14:15-14:35	Dr. Jawad Khan (IL023) <i>Potential role of microRNAs and their target genes in metabolic diseases and oral cancer</i>	Prof. Dr. Anjum Nasim Sabri (IL013) <i>Immobilization of uranium by biofilm forming strains of Bacillus strains</i>	Dr. M. Qasim (IL020) <i>Drug resistance in Mycobacterium tuberculosis isolates from Pakistan: Current knowledge and future perspectives</i>
14:35-14:50	Hina Usman (T021) <i>Decreased Cellular Cholesterol Levels in Acute Leukemia Cells</i>	Dr. Zeeshan Wadood (T085) <i>Microbiologically Influenced Corrosion (MIC) Behaviour of Cu-Ni (70-30) Alloy in the Presence of Bacillus subtilis and Pseudomonas aeruginosa</i>	Afifa Tanweer (T003) <i>Association of Hygiene Practices with Frequency, Duration and Severity of Acute Diarrhea among Children of Lahore, Pakistan</i>
14:50-15:05	M. Safdar (T035) <i>Effects of Aunps on Transient Receptor Potential (TRP) Channel Gene Expressions In SKBR3 Breast Cancer Cell Line</i>	Samreen Hayat (T089) <i>In vitro Antibiofilm and Antiadhesion Effects of Magnesium Oxide Nanoparticles against Antibiotic Resistant Bacteria</i>	Zeshan Zulfiqar (T084) <i>Public Health Significance and Vaccination of Poultry against Salmonella</i>
15:05-15:20	Rimsha Munir (T054) <i>To Study the Influence of Metabolic Stress on Growth of Cancer Cells in 2D and 3D Cell Culture Systems</i>	Zulfiqar Ali Mirani (T087) <i>Relationship of Cell Surface Hydrophobicity with Biofilm Formation and Growth Rate -A study on P. aeruginosa, S. aureus and E. coli</i>	Abdul Rehman (T091) <i>Health, Safety and Environmental Status at a Small Scale Knitting Industry in Pakistan</i>
15:20-15:20	POSTER SESSION / REFRESHMENT		
CITY TOUR			

Day 3: Friday February 9, 2018

	HALL-A	HALL-B	HALL-C
09:00-09:30	Technical Session VIA	Technical Session VIB	Technical Session VIC
09:00-09:30	Prof. Dr. Asghar Maka (IL012) <i>Antimicrobial Activities of Trichoderma Harzianum against the Plant Pathogens</i>	Prof. Dr. Azra Yasmin (IL014) <i>CRISPR-CAS System: Discovery, Mechanism and Significance</i>	Dr. Nabila Roohi (IL024) <i>Biochemical and Clinical Outcomes as Potential Indicators of Preeclampsia</i>
09:30-10:30	Concluding Session		
10:30	Tour to Different Historical Places of Lahore (Separate Registration - 600 PKR)		

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