

CONFERENCE PROGRAM
International Conference of
Biochemistry, Biotechnology and Biomaterials
DECEMBER 09-11, 2018

SUNDAY, DECEMBER 09, 2018

15:00 ARRIVAL OF GUESTS (Department of Biochemistry)
POSTER DISPLAY (University Expo Centre)

MONDAY, DECEMBER 10, 2018

08:00-09:00	REGISTRATION	Venue: Iqbal Auditorium
09:00-10:30	INAUGURAL CEREMONY	Venue: Iqbal Auditorium
10:30-11:00	TEA BREAK	Venue: Univ. D-ground
11.00-13.15	COMBINED PLENARY SESSION I	
	VENUE: Iqbal Auditorium	

Chair:	Prof. Dr. Muhammad Mukhtar, University of Malaysia Pahang, Malaysia
Co-Chair:	Dr. Faiz ul Hassan Naseem, The Government Sadiq College Women University Bahawalpur. Bahawalpur – Pakistan
11:00-11:45	PLENARY LECTURE- I
	Professor Paul C. Engel , Conway Institute of Biomolecular and Biomedical Research, University College Dublin, Dublin, Ireland
	Title: Enzyme Kinetics in the Development and Assessment of Engineered Enzymes for Amino Acid Analysis or Synthesis
11:45-12:30	PLENARY LECTURE-II
	Professor Youlu Yuan : 1 Key Laboratory of Biological and Genetic Breeding of Cotton, The Ministry of Agriculture; Institute of Cotton Research, Chinese Academy of Agricultural Sciences; Anyang, Henan, 455000 China
	2 Research Base, Anyang Institute of Technology, State Key Laboratory of Cotton Biology, Anyang, Henan, 455000 China
	Title : Genome wide quantitative trait loci reveal the genetic basis of cotton fiber quality and yield related traits in G.hirsutum RIL population
12:30-13:15	PLENARY LECTURE-III
	Omon. S. Isikhuemhen : Mushroom Biology & Fungal Biotechnology Laboratory, NRED, CAES, North Carolina A&T State University, Greensboro, NC 27411, USA.
	Email: omon@ncat.edu
	Title : Mushrooms biomaterial for promoting health in human and animals

GROUP PHOTO (Iqbal Auditorium)

13:15-14:15	LUNCH/PRAYER BREAK	Venue: University D-ground
14:15-14:45	Visit to Posters	Venue: University Expo Centre
14:45-17:00	CONCURRENT TRACKS (Five Parallel Tracks)	

TRACK 1: Clinico-Medical and Nutritional Biochemistry, Medicinal Plants and Traditional Medicines (Video Conference Room 1, Faculty of Agriculture)

SESSION-I	Chair: Dr Rizwan Ahmad, Independent Medical College, Faisalabad Co-Chair: Dr. Nouman Rasool, Department of Life Sciences, University of Management and Technology, Lahore.
Time	Speakers
14:45-15:10	KEYNOTE LECTURE 1: A green approach for the production of biodiesel from fatty acids of corn oil deodorizer distillate

	Syed Tufail Hussain Sherazi* National Centre of Excellence in Analytical Chemistry, University of Sindh, Jamshoro -76080, Pakistan
15:10-15:25	A Review: “Anti microbial activity through essential oils of Dracocephelum and Fagopyrum species” Maria Asghar, Arshia Nazir, Adeena Saeed, Kausar Malik*, Husnain Qamar, Anita Shahid, Afifa Saddique, Syed Rizwan Abbas and Adnan Ahmad Qazi . Centre of Excellence in molecular Biology, University of the Punjab, Lahore Email: Kausarbasit786@yahoo.com
15:25-15:40	Inhibitory effects of Fungal red pigment by <i>Penicillium imranianum</i> and Estrogen receptor beta on lymphoma growth Muhammad Sharif Hasni, PhD and Post doc, Institute of Biochemistry, University of Balochistan, Pakistan
15:40-15:55	Ameliorative potential of nitric oxide donor preconditioned stem cells and chitosan based hydrogel for wound healing Muhammad Tariq ^{1*} , Zeeshan Akram ¹ , Afshan Afreen ¹ ¹ Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur-10250, (AJK), Pakistan
15:55-16:10	<i>In vitro</i> and <i>in vivo</i> analysis of bioactive compounds isolated from Bistorta amplexicaulis Andleeb Manzoor ¹ , Tayyaba Zainab ¹ , M. Ali Shah ² , M Sheeraz Ahmad ^{1*} University Institute of Biochemistry and Biotechnology, Pir Mehar Ali Shah Arid Agriculture University, Rawalpindi Pakistan *Corresponding Author: dr.sheeraz@uaar.edu.pk
16:10-16:25	Chronic toxicity and biochemical evaluation of methanol extract of <i>Ipomoea hederacea</i> seeds on rabbits Mehjabeen ^{1*} , Noor Jahan ² , Asma wazir ³ ^{1*} Department of Pharmacology, Faculty of Pharmacy, Federal Urdu University for Science, Arts & Technology, Karachi, Pakistan. *E-mail: mehjbn1@gmail.com
16:25-16:35	Relation of Serum Vitamin D with Insulin Resistance in Obese Female Presenting with Normal Fasting Glucose Levels Shan Elahi ^{*1} , Sadaf Aslam ² , Ayesha Ammar ² , Nayyab Batool Rizvi ² and Affia Tasneem ¹ ¹ Centre for Nuclear Medicine (CENUM), Mayo Hospital, Lahore
16:35-16:50	Antimicrobial and biological screening of secondary metabolites in <i>Citrullus colocynthis</i> Modasrah Mazhar, Muhammad Afzal, Iqra Baig, Shafia Arshad Faculty of Life Sciences, University of Central Punjab - Lahore Department of Eastern Medicine and Surgery, Qarshi University - Lahore
16:50-17:05	Antimicrobial value of oil extracted from <i>Saara hardwickii</i> and <i>Pelicanus crispus</i> *Maryam Arshad, *Tahira Ruby, **Mirza Imran Shahzad, ***Muhammad Rafay, ****Muhammad Abdullah and *****Aleem Ahmed Khan * Department of Life Sciences, The Islamia University of Bahawalpur, Bwp Corresponding author: Tahira Ruby, tahiraruby@iub.edu.pk
	Rosaceae fruits - a healthy food Muhammad Afzal, Modasrah Mazhar, Naveed Ahmed Faculty of Life Sciences, University of Central Punjab, Lahore- Pakistan
	Exploring medical applications of nanosized silver particles impregnated in fungal extract and their characterization Saima Faryad and Dr. Bushra Arshad Department of Biotechnology, Mohi- Ud-Din Islamic University, Nerian Sharif, AJ&K
	Bioactive analysis and search of novel antimicrobial family specific genes from medicinal plants Um-e-Habiba, Raheela Jabeen and Atia Iqbal The Women University Multan, Pakistan Email: draheela.9054@wum.edu.pk

TRACK 2: Pharmaceutical Biochemistry, Drug Development and Delivery Systems
(New Senate Hall)

SESSION-I	Chair: Dr. Mateen Abbas, UVAS, Lahore Co-Chair: Dr. Fozia Saleem, CABB, UAF
Time	Speakers
14:45-15:10	KEYNOTE LECTURE 1: Polymer based cancer Nano-therapeutics Dr Abida Raza, NILOP Nanomedicine Research Laboratories National Institute of Laser and Optronics Pakistan Atomic Energy Commission, Islamabad
15:10-15:25	Defensive effects of Nuciferin and Norcoclaurine on acetylcholinesterase and antioxidant enzymes in alloxan induced diabetic albino rats Shahnaz, ¹ Hidayatullah Khan, ^{1*} Farman Ali Khan ² , Afzal Shah ¹ , Shaista Parveen ¹ , Muhammad Ashfaq khan ¹ , Inam Ullah Khan ¹ ¹ Department of Chemistry, University of Science and Technology, Bannu (28100) KPK, Pakistan
15:25-15:40	Mesoporous nano-bioactive glass for the bone tissue regeneration and delivery of imatinib along with in vitro inhibitory effects on cancer cells Muhammad Shoaib ^a , Aamer Saeed ^a , Muhammad Saif ur Rahman ^b , Muhammad Moazzam Naseer ^a ^a Department of Chemistry, Quaid-i-Azam University, Islamabad 45320, Pakistan
15:40-15:55	Isolation, Purification, Structural Elucidation & of Antibacterial Secondary Metabolites from Marine Bacteria against MDR strains of Human Origin Bushra Uzaira ¹ , Nyla Jabeen ² , Barkat Ali Khan ³ , ^{1 & 2} Department of Bioinformatics and Biotechnology, International Islamic University, Islamabad, Pakistan c ³ Faculty of Pharmacy and Alternative Medicine, Gomal University D.I Khan, KPK, Pakistan
15:55-16:10	Antiplatelet activity of <i>Thuja occidentalis</i> crude extract and paracetamol Noor Jahan ^{1*} , Mehjabeen ² , ^{1*} Department of Pharmacology, Dow College of Pharmacy, Dow University of Health Sciences, Karachi, 74200, Pakistan [*] E-mail: noor.jahan@duhs.edu.pk
16:10-16:25	Absorption kinetics of fixed –dose combination of sitagliptin and metformin in healthy human Mateen Abbas ^{*,1} and Abdul Muqeet Khan ² ^{1,2} Quality Operations Laboratory (QOL), University of Veterinary and Animal Sciences (UVAS), Lahore, Pakistan.
16:25-16:35	Biogenic synthesis of Silver nanoparticles of fungal strain (<i>Penicillium oxalicum</i>) as potential antibiotics Nosheen Feroze and Dr. Bushra Arshad Department of Biotechnology, Mohi- Ud-Din Islamic University, Nerian Sharif, AJ&K Email: bushraarshad1988@gmail.com
16:35-16:50	Synthesis of Nanostrutred, characterization, & improvement of bioavailability, pharmacokinetics in vitro and vivo studies Murtaza Hasan PhD Department of Biochemistry & Biotechnology, The Islamia University, Bahawalpur, Pakistan
16:50-17:05	Technetium ^{99m} radiolabeling and biological study of epirubicin for in vivo imaging of multi-drug- resistant staphylococcus aureus infections via single photon emission computed tomography Naeem-Ul-Haq Khan ¹ Syed Ali Raza Naqvi ¹ Samina Roohi ² Tauqir A. Sherazi ³ Zulfikar Ali Khan ¹ Ameer Fawad Zahoor ¹ ¹ Department of Chemistry, GCUF Email: naeemulhaq.k@student.unimelb.edu.au

	<p>The proactive bio-pharmacological potentials of Pleurotus species Asma Irshad^{1*}, Muhammad Shahid², Muhammad Riaz³ and Zinayyera Subhani² ¹Center of excellence in Molecular Biology, University of the Punjab, Lahore-Pakistan Corresponding author E-mail: asmairshad76@yahoo.com</p>
	<p>Isolation and identification of antimicrobial agents from the epidermal mucus of <i>Labeo rohita</i> as an antimicrobial drug for the treatment of microbial infections. Hina Tabsum¹, Muhammad Anjum Zia¹, Zaheer Ahmed¹ ¹Department of Biochemistry, UAF.</p>
	<p>Determination of antibiotic resistant genes in <i>Lactobacillus</i> species isolated from commercially available fermented yogurt Zunaira Hassan¹, Muhammad Ashraf¹, Muhammad Naeem Faisal^{2*}, Razia Kousar³, Rizwan Aslam¹ and Sultan Ali¹. ¹ Institute of Microbiology, University of Agriculture Faisalabad, Pakistan. Email: Zunairahassan58@gmail.com</p>

TRACK 3: Molecular Biology, Genetic Engineering and Bioinformatics
(Horticulture Landscape Studio)

SESSION-I	<p>Chair: Dr. Abida Raza Rao Co-Chair: Dr. M Javed Iqbal, COMSAT, Lahore</p>
Time	Speakers
14:45-15:10	<p>KEYNOTE LECTURE 1: Animal Biotechnology & Genomic Research in Pakistan; Current Scenario & Future Prospects Masroor Ellahi Babar, Akhtar Ali, Tanveer Hussain Faculty of Science & Technology, Virtual University of Pakistan, Lahore</p>
15:10-15:25	<p>Partial characterization of extra-chromosomal DNA from multidrug resistance Staphylococcus species of local isolates present in the nasal flora children under five year of age Amtul Jamil Sami^{1*}, Madeeha Khalid¹, Sermad Ahmad Mangat² and Hammad Ahmad Mangat³. ¹Institute of Biochemistry and Biotechnology, University of the Punjab, Quaid-e-Azam campus, Lahore 54590, ²Pakistan. Contact: 2amtuljamisami@gmail.com</p>
15:25-15:40	<p>Proteomic analysis of a trunk disease of fruiting trees caused by a notorious fungal pathogen Tanveer Hussain^{1*}, Muhammad Ishtiaq¹, Tony Adesemoye² and Sumaira Thind³ ¹Department of Botany, Mirpur University of Science and Technology (MUST) Mirpur, Azad Jammu & Kashmir ²Department of Plant Pathology, WCREC North Platte, University of Nebraska, Lincoln, USA *Corresponding author's email: tanveerajk@gmail.com</p>
15:40-15:55	<p>A Bioinformatic Study of Lipases from Reported Thermophilic Bacteria Rozina Aslam¹ and Muhammad Sarwar Yaqub² ¹Department of Chemistry; ²Department of Horticultural Sciences, The Islamia University of Bahawalpur, Pakistan *Corresponding author's e-mail: hlb92@yahoo.com</p>
15:55-16:10	<p>Characterization of Larvicidal activity of Biogenic Nanoparticles Neeha Ghafoor¹, Sheeraz Ahmad¹, M Javaid Asad¹, Kumail Ali Rizvi², Tayyaba Zainab¹ 1. University Institute of Biochemistry and Biotechnology, Pir Mehr Ali Shah -Arid Agriculture University Rawalpindi. Email: neehaghafoor@gmail.com</p>
16:10-16:25	<p>In-silico prediction of Zika Virus epitopes against Brazilian human leukocyte antigen background: An approach towards development of future vaccines for Brazilian population</p>

	Malik Siddique Mahmood ^{1*} , Naeem Mehmood Ashraf ² , Aadil Hussain ² , Muhammad Zubair Mahmood ² , Nadia Zeeshan ² , Mahjabeen Saleem ¹ ¹ Institute of Biochemistry and Biotechnology, University of the Punjab, Pakistan.
16:25-16:35	Cell Free Circulating DNA Quantification and Methylation Status of DCC gene as Predictive Diagnostic Biomarkers of Lung Cancer Muhammad Shahbaz Aslam, Abeera Shaeer, Iram Gull, Imran Tipu, Zaigham Abbas*, Muhammad Amin Athar *Department of Microbiology & Molecular Genetics, University of the Punjab, Lahore
16:35-16:50	Purification, N-terminal and Phylogenetic Studies of Polyphenol Oxidase Isoforms from Apple, Pear and Banana Fruit Pulp Naila Sajjad ¹ , M. Sheeraz Ahmad ¹ ¹ Department of Biochemistry, Pir Mehr Ali Shah, Arid Agriculture University, Rawalpindi, Pakistan. Corresponding Author: Nailasajjad1288@yahoo.com
16:50-17:05	Development of efficient mathematical model for optimized bacteriocin production from local isolate of <i>Lactobacillus acidophilus</i> MS1 using response surface methodology Mahwish Salman ^{1*} , Anum Tariq ¹ , Misbah Shahid ¹ . ¹ Department of Biochemistry, GCUF Correspondence: Mahwish Salman mahwishsalman@gcuf.edu.pk
	Phylogeny and an in silico study to reveal all potential and tolerated single-site mutations with increased stability of streptokinase c Ruwaiba Arif ¹ , Muhammad Anjum Zia ¹ and Ghulam Mustafa ^{2*} ² Department of Biochemistry, GCUF *Corresponding author's email: drghulammustafa@gcuf.edu.pk

**TRACK 4: Industrial Biochemistry/ Biotechnology, Biomaterials and Biofuels
(Farmer Syndicate Hall)**

SESSION-I	Chair: Dr. Yasir Saleem, PCSIR, Lahore Co-Chair: Dr. Hidayatullah Khan, University of Science and Technology, Bannu (28100) KPK, Pakistan
Time	Speakers
14:45-15:10	KEYNOTE LECTURE 1: Native Resources: Key for National Progress and Prosperity Faiz-ul Hassan Nasim Chemistry Department, The Government Sadiq College Women University Bahawalpur. Bahawalpur – Pakistan
15:10-15:25	Pyrolysis of plastic waste into fuel oil: kinetics and products distribution Jan Nisar ^{*1} , Muhammad Anas Khan ¹ , Munawar Iqbal ² , Mazhar Abbas ³ ¹ National Centre of Excellence in Physical Chemistry, University of Peshawar
15:25-15:40	Biochemical characterization of xylanase by locally isolated <i>Aspergillus</i> species Imran Ali, Attiq U Zaman, Rehana Asghar and Raja Tahir Mahmood Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur AJK Corresponding author: Dr. Imran Ali, aliimran@must.edu.pk
15:40-15:55	Simultaneous pretreatment and biohydrogen production from wheat straw by newly isolated ligninolytic <i>Bacillus</i> sp. strains with two-stage batch fermentation system Tawaf Ali Shah ^{ab} , Shehbaz Ali ^{ab} , Romana Tabassum. ^{*ab} ^a National Institute for Biotechnology and Genetic Engineering (NIBGE), Faisalabad, Pakistan ^b Pakistan Institute of Engineering and Applied Science (PIEAS), Islamabad, Pakistan Corresponding author: tawafbiotech@yahoo.com .
15:55-16:10	Production, purification and characterization of exoglucanase from locally isolated <i>Aspergillus flavus</i>.

	Noreen Rafiq ^{1*} Muhammad Altaf Hussain ¹ , Qurat ul Ain ¹ ¹ Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur-10250, (AJK), Pakistan
16:10-16:25	Implementation of Response surface Methodology for the production of Alpha amylase by Aspergillus fumigatus Raja Tahir Mahmood* ¹ , Iqra Butt ¹ , M. Javaid Asad ² , Maqsood Ahmed ¹ and Imran Ali ¹ 1-Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur AJK 2-Department of Biochemistry, PMAS-Arid Agriculture University Rawalpindi, Pakistan * Corresponding author: Dr. Raja Tahir Mahmood: raja.tahir@must.edu.pk
16:25-16:35	Biocatalytic degradation of various dyes by a novel peroxidase from soybean U.Kalsoom ^{1*} , H. N. Bhatti ² , S. Salman Ashraf ³ ¹ Chemistry Department, GC Women University Faisalabad *Corresponding author Email: kalsoom5800@yahoo.com
16:35-16:50	Topopyrone c derivatives, credible topoisomerase-1 enzyme inhibitors Shahid Aziz Department of Chemistry, Mirpur University of Science & Technology (MUST) Mirpur, AJK.
16:50-17:05	Enhanced ethanol production from lignocellulosic wastes by an indigenously isolated mixed culture of Saccharomyces and Candida using box Behnken design Shagufta Kamal ^{1*} · Ismat Bibi ² · Abdullah Ijaz Hussain ³ · Naheed Akhter ⁴ · Razia Noreen ¹ · Saima Rehman ³ · Tanvir Ahmed ⁵ · Sumbel Maqsood ¹ · Nadeem Abbas Faisal ³ ¹ Department of Chemistry GCUF *Corresponding email: shaguftakamal@gcuf.edu.pk

TRACK 5: Chemical and Plant Sciences
(Nestle Hall, NIFSAT)

SESSION-I	Chair: Dr. Ali Raza Naqvi, GCUF Co-Chair: Dr. Umm-e-Kalsoom, GCWUF
Time	Speakers
14:45-15:10	KEYNOTE LECTURE 1: Synthesis and characterization of magnetic poly (acrylic acid) hydrogel fabricated with cobalt nanoparticles for adsorption and catalytic applications Tariq Mahmood Ansari*, Muhammad Ajmal and Sadia Saeed Institute of Chemical Sciences, Bahauddin Zakariya University, Multan 60800, Pakistan
15:10-15:25	KEYNOTE LECTURE 2: Potential of soil extracted Humic acids on mineral nutrients Uptake Tajnees Pirzada Institute of Chemistry, SALU, Khairpur
15:25-15:40	Guaiacol Peroxidase Expression under Salinity Stress in two Ecotypes of Vetiveria zizanioides Ayesha Sumreen ¹ , Faiz-ul Hassan Nasim ^{2*} , Samina Ejaz ³ , Hafiz Shahbaz Mahmood ⁵ , Asma Yaqoob ⁶ , Muhammad Shafiq Chaudhry ⁴ and Muhammad Ashraf ¹ Department of Chemistry ¹ , IUB ² Department of Chemistry, Government Sadiq College Women University, Bahawalpur, 63100, Pakistan. *Corresponding author: faiz.nasim@hotmail.com Presenting author: aisha_arshad56@yahoo.com
15:40-15:55	Biochemical Diagnosis of Citrus Huanglongbing and Elimination of Candidatus Liberibacter asiaticus by Using Penicillin Muhammad Sarwar Yaqub ¹ and Rozina Aslam ²

	¹ Department of Horticultural Sciences; The Islamia University of Bahawalpur, Pakistan *Corresponding author's e-mail: hlb92@yahoo.com
15:55-16:10	Effect of Arbuscular Mycorrhizal Fungi to reduce salinity stress in Pea Plant Salma Akhter, Syeda Asma Bano Department of Microbiology, University of Haripur
16:10-16:25	Impact of harvest maturity on biochemical compounds, antioxidants and sensory characteristics of kinnow mandarin fruit under extra doses of potassium and phosphorus nutrients Mahmood Ul Hasan ¹ , Aman Ullah Malik ¹ , Raheel Anwar ¹ , Basharat Ali Saleem ² , Muhammad Shahid ³ , Muhammad Suliman Shah ¹ ¹ Institute of Horticultural Sciences, ³ Department of Biochemistry, UAF Presenting author: mahmoodulhassan1947@gmail.com
16:25-16:35	Characterization of Larvicidal activity of Biogenic Nanoparticles Neeha Ghafoor ¹ , Sheeraz Ahmad ¹ , M Javaid Asad ¹ , Kumail Ali Rizvi ² , Tayyaba Zainab ¹ 1. University Institute of Biochemistry and Biotechnology, Pir Mehr Ali Shah -Arid Agriculture University Rawalpindi. Email: neehaghafoor@gmail.com
16:35-16:50	A study of parapinopsin in amphibians Tayyaba Zainab ¹ , Kumail Ali Rizvi ¹ , S.M. Saqlan Naqvi ² , Amer Qureshi ¹ , Mark Sanderson ¹ , Peter Eagles ¹ King's College London, United Kingdom. Email: tzawan@gmail.com
16:50-17:05	Coconut water as a source of cytokinins for micropropagation of plants Fehmina Jabeen, Ambreen Ahmed* and Aqsa Tariq Department of Botany, University of the Punjab, Quaid-e-Azam Campus, Lahore 54590, Pakistan *Author for Correspondence: ambreen.botany@pu.edu.pk
17:05-17:20	Plant based vaccines: Promising candidates for the prevention of various poultry diseases in future Zeshan Zulfiqar*, Shahid Ur Rehman, Sidra Bashir, Khizar Hayat, Muhammad Khalid Bashir, Umar Farooq, Muhammad Ashraf, Muhammad Farooq Khalid University of Agriculture Faisalabad, Sub Campus Toba Tek Sing Centre for Applied Molecular Biology & Forensic Sciences University of the Punjab *Corresponding Author's email: 4zeshan@gmail.com
	Effect of Moringa oleifera leaf supplementation on hematological parameters and immune response in commercial broiler chickens Asif Ali, Shaukat Ali Bhatti*, Shahzad Ashraf Institute of Animal and Dairy Sciences, UAF *Correspondence: E-mail: sabhatti60@gmail.com
	Phytochemical screening and antimicrobial evaluation of pomegranate peel extract Mahwish Safdar* ^a , Summar A. Naqvi* ^a , Muhammad J. Jaskani ^a , Iqrar A. Khan ^b , Walliullah ^a , Imran Pasha ^c , M. Shahid ^d , Asif Hanif ^e , Pomology Lab, Institute of Horticultural Sciences, UAF *Corresponding author: mahwishsafdar1433@gmail.com summar.naqvi@uaf.edu.pk

17:15

Poster Evaluation

Venue: University Expo Centre

19:30

GALA DINNER

Venue: University D-ground

TUESDAY, DECEMBER 11, 2018

9.00-11.15 COMBINED PLENARY SESSION 2 Venue: Iqbal Auditorium

Chair:	Prof. Dr. Tariq Mahmood Ansari , Institute of Chemical Sciences, Bahauddin Zakariya University, Multan , Pakistan
Co-Chair:	Dr. Hamid Mukhtar, Institute of Industrial Biotechnology, GC University, Lahore, Pakistan
09:00-09:45	PLENARY LECTURE-IV
Prof. Dr. Ahmed Hassan El-Ghorab:	Department of Chemistry, Faculty of Science, Jouf University, Saudi Arabia KSA.
Title:	Bioactivity Of Natural Antioxidants
09:45-10:30	PLENARY LECTURE-V
Wankui Gong:	State Key Laboratory of Cotton Biology, Institute of Cotton Research, Chinese Academy of Agricultural Sciences, 455000 Anyang, Henan, China,
Title:	Combined Linkage and Association Mapping of Fiber Quality Traits and Yield Components in Upland Cotton Using Enriched High-Density SNP Markers
10:30-11:15	PLENARY LECTURE-VI
Prof. Muhammad Mukhtar:	Faculty of Industrial Sciences & Technology, University of Malaysia Pahang 26300 Gambang, Pahang, Malaysia
Title:	Cell Culture Models – From a Single Cell to an Organ Culture

11:15-11:45 Tea/coffee break

Venue: University D-ground

11:45-13:30 CONCURRENT TRACKS (Five Parallel Tracks)

TRACK 1: Clinico-Medical and Nutritional Biochemistry, Medicinal Plants and Traditional Medicines
(Video Conference Room 1, Faculty of Agriculture)

SESSION-II	Chair: Dr. Shan Elahi, CENUM, Lahore Co-Chair: Dr. Riaz Ahmad, UOS, Sargodha
Time	Speakers
11:45-12:05	KEYNOTE LECTURE 1: Edible fats and oils: Biochemical signatures and significance as depicted through optics Hina Ali, PhD National Institute of Lasers and Optronics, Islamabad
12:05-12:20	Clinico -pathological changes associated with induced Newcastle disease in neem (<i>Azadirachta indica</i>) supplemented broiler chicks Muhammad Umar, Farzana Rizvi, Shah Nawaz*, Ayesha Ramzan and Muhammad Shahzad Shafiq Department of Pathology, Faculty of Veterinary Science, UAF Corresponding author: malikshahnawaz786@gmail.com
12:20-12:35	Omega-3 enrichment of poultry eggs through use of flaxseed Asghar Subhani ¹ , Shaukat Ali Bhatti ^{1*} , Gulraiz Ahmad ² , Tahir Mahmood ¹ , Shahzad Ashraf ¹ , Najam Us Sahar ¹ , Muhammad Khalid Qadeer ¹ ¹ Institute of Animal and Dairy Sciences, UAF
12:35-12:50	Effect of <i>Aloe vera</i> powder against <i>acne vulgaris</i> Aysha Sameen, Maria Manzoor, Muhammad Issa Khan and Amna Sahar National Institute of Food Science and Technology, UAF Corresponding author email: ayshasameen@uaf.edu.pk
12:50-13:05	Study of the androgenic potential of <i>Anacyclus pyrethrum</i> roots extract in adult male rats Muhammad Riaz ¹ , Fatima Yousaf ² , Muhammad Shahid ² , Asma Irshad ³ , Ghulam Rasool ¹ ¹ Department of Allied Health Sciences, Sargodha Medical College, University of Sargodha, Sargodha-Pakistan.
13:05-13:20	Level of trace elements and steroid hormone in polycystic ovary syndrome

	*Muhammad Jahangeer ¹ , Zahed Mahmood ¹ , Maliha Batool ¹ , Sarmad Ahmad Qamar ² , Ghazia Fatima ¹ [1] Department of Biochemistry, GCUF *Corresponding Author: Email: rajahangeer@gcuf.edu.pk
1:20-13:30	Sero-survey of canine Parvovirus infection in dogs in district Faisalabad Farrah Deeba ¹ , Anas Sarwar Qureshi ² , Muhammad Haleem Tayyab ¹ , Naureen Rana ³ , Shanza Khalid ³ , Khurram Ashfaq ¹ ¹ Department of Clinical Medicine and Surgery, UAF Corresponding author: farrah.deeba@uaf.edu.pk
	Endogenous antioxidant and chemical assessment of polyherbal formulation (PHF) against various hepatotoxic agents in experimental animals Abid Ali and Khalil ur Rahman
	Assessment of Medicinal Impact of <i>Calotropis Procera</i> Supplemented Diet through Haematology, Gut Microbial Diversity and Immune Response in Broiler Chicks Syeda Sadaf Zahra ¹ , Nargis Naz ¹ , Gulnaz Afzal ² , Ghulam Mustafa ³ and Shumaila Kiran ⁴ ² Department of Zoology, The Islamia University of Bahawalpur, Bahawalpur, Pakistan Corresponding author's E-mail: gulnaz.afzal@iub.edu.pk
	Antimicrobial and antifungal properties of skin mucus from fresh water cultivable <i>Cyprinus carpio</i>. Zaheer Ahmed ¹ , Muhammad Anjum Zia ¹ , Ghulam Akbar ¹ , Yasmeen Batool ¹ , Hadia Naseem ¹ , Mehwish Kanwal ¹ , Abid Ali ¹ ¹ Department of Biochemistry, UAF mbczaheer@hotmail.com
	Prevalence of Hypothyroidism and Autoimmunity in Obese Women Nazish Saleem ^{*1} , Shan Elahi ² and Nayyab Batool Rizvi ¹ ¹ Institute of Chemistry, New Campus, University of the Punjab, Lahore ² Centre for Nuclear Medicine (CENUM), Mayo Hospital, Lahore

TRACK 2: Pharmaceutical Biochemistry, Drug Development and Delivery Systems
(New Senate Hall)

SESSION-II	Chair: Dr. Tahira Mahmood, UOS, Sargodha Co-Chair: Dr. Abdul Ghaffar, GCUF.
Time	Speakers
11:45-12:05	KEYNOTE LECTURE 1: Development in Nanoparticles Research for Biological Applications Irshad Hussain Department of Chemistry & Chemical Engineering, SBA School of Science & Engineering (SSE), Lahore University of Management Sciences (LUMS), DHA, Lahore Cantt-54792, Pakistan.
12:05-12:20	Evaluation of antibacterial properties of nano-sized iron oxide against gram positive and gram negative bacteria Maria Zaib, Dr. Younas Khattak and Dr. Bushra Arshad Department of Biotechnology, Mohi- Ud-Din Islamic University, Nerian Sharif, AJ&K
12:20-12:35	Efficacy Of Novel Cholinesterase Inhibitors Against Alzheimer's Disease And Related Dementias Hidayatullah Khan Departments of Chemistry, University of Science & Technology, Bannu E mail: hidayat_sks@yahoo.com
12:35-12:50	Synthesis of polymeric nexus for taregeted drug delivery and its in-vitro evaluation Farooq Azam ^{*1} , Hira Ijaz ¹ ^{1*} Institute of Pharmacy, Physiology and Pharmacology, UAF Email: farooq.leo@hotmail.com

12:50-13:05	<p>Serum and cellular pharmacokinetics of sofosbuvir and its concentration effect analysis in HCV patients receiving sofosbuvir and ribavirin therapy</p> <p>Saba Shehzadi, Bilal Ahmed, Sara Ashraf, Aqsa Afzal, Atika Nageen, Bushra Munir and Abdul Ghaffar</p> <p>Department of Biochemistry, GCUF</p> <p>Email: aghaffaruaf@yahoo.com</p>
13:05-13:20	<p>Phytopharmaceuticals: Promising candidate for Disease Prevention in Human</p> <p>Zeshan Zulfiqar*, Shahid Ur Rehman, Sidra Bashir, Muhammad Khalid Bashir, Umar Farooq, Umair Mahmood, Marium Zehra, Muhammad Farooq Khalid</p> <p>University of Agriculture Faisalabad, Sub Campus Toba Tek Singh Centre for Applied Molecular Biology & Forensic Sciences University of the Punjab</p> <p>*Corresponding Author's email: 4zeshan@gmail.com</p>
1:20-13:30	<p>Anti-diabetic Activity and Synthesis of benzimidazole-benzothiazine Structural Hybrids</p> <p>Matloob Ahmad^{1,*}, Afshan Kanwal¹, Sana Aslam², Usman Ali Ashfaq³</p> <p>¹Department of Chemistry, GCUF.</p> <p>Email: *Matloob.Ahmad@gcu.edu.pk</p>
	<p>Synthesis Of Ag(I)-N Heterocyclic Carbene Complexes For Anticancer Studies</p> <p>Aqsa Habib*, Haq Nawaz Bhatti, Muhammad Adnan Iqbal</p> <p>Department of Chemistry, UAF</p> <p>*Email: agsahabib_uaf@yahoo.com; hnbhatti2005@yahoo.com</p>
	<p>Investigation of eryptotic activity of methotrexate and anti eryptotic potential of aqueous extracts of <i>Curcuma longa</i> and <i>Allium sativum</i></p> <p>Tayyba Sattar and Kashif Jilani</p> <p>Department of Biochemistry, University of Agriculture, Faisalabad</p> <p>E-mail: kashif.jillani@uaf.edu.pk</p>
	<p>Renal clearance and urinary excretion of ibuprofen in male volunteers</p> <p>Mubashra Khan^a and Tahira Iqbal^b</p> <p>^a Department of Biochemistry, UAF</p> <p>mubashrakhan04@gmail.com (Mubashra Khan)</p>

TRACK 3: Molecular Biology, Genetic Engineering and Bioinformatics
(Horticulture Landscape Studio)

SESSION-II	<p>Chair: Dr. Amjad Hameed, NIAB, Faisalabad</p> <p>Co-Chair: Dr. Rozina Aslam, IUB, Bhawalpur</p>
Time	Speakers
11:45-12:05	<p>KEYNOTE LECTURE 1: Journey of DNA evidence from genotyping to phenotyping</p> <p>Nouman Rasool</p> <p>Department of Life Sciences, University of Management and Technology, Lahore.</p>
12:05-12:20	<p>Molecular Characterization of AtCNGC19 and AtCNGC20 in Arabidopsis thaliana for their Potential Role in Salt Stress</p> <p>Sadaf Oranab¹, Bushra Munir¹, Zulqurnain Khan², Sultan Habibullah Khan², Abdul Ghaffar^{1,*} and Aftab Ahmad^{2,3*}</p> <p>²US-Pakistan Center for Advanced Studies in Agriculture and Food Security, University of Agriculture, Faisalabad, Pakistan</p> <p>³Department of Biochemistry, UAF</p> <p>*Corresponding Author: aftab.ahmad@uaf.edu.pk</p>
12:20-12:35	<p>Agrobacterium mediated delivery of multiplex CRISPR/CAS9 system in cotton against the cotton leaf curl virus disease</p> <p>Komal Javed², Muhammad Zubair Ghouri^{1,3}, Sultan Habibullah Khan^{1,3}, Zulqurnain Khan⁴, and Aftab Ahmad.</p> <p>¹Center of Advanced Studies in Agriculture and Food Security (CAS-AFS), UAF.</p> <p>²Department of Biochemistry, University of Agriculture, Faisalabad.</p>

	³ Center for Agricultural Biochemistry and Biotechnology, UAF ⁴ Institute of Plant Breeding and Biotechnology, MNSUA, Multan Correspondence: aftab.ahmad@uaf.edu.pk : komaljaved666@gmail.com
12:35-12:50	Antiviral phytochemicals identification, against NS1 virulence protein, to cope Zika Virus infection using bioinformatics Shakeel Irshad Centre of Agricultural Biochemistry and Biotechnology (CABB), UAF Email; shakeel_irshad66@yahoo.com
12:50-13:05	A computational nanotechnology approach for screening potential therapeutic nanoparticles against Alzheimer's disease Syed Awais Attique ¹ , Qurat-ul-Ain ¹ , Syed Asim Atique Shah ² and Ghulam Mustafa ^{3*} ¹ Department of Computer Science, UAF ² Department of Computer Science, Air University Islamabad, Pakistan ³ Department of Biochemistry, GCUF *Corresponding author's email: drghulammustafa@gcuf.edu.pk
13:05-13:20	Frequency of Null genotype in Healthy and leukemic patients in local subjects Naila Rafiq*, Shamaila Rafiq and Tahira Iqbal GCWUF
1:20-13:30	Resistance to citrus tristeza virus via RNA interference Hassan Ali ¹ , Saher Naveed ¹ , Waseem Sarwar ¹ , Ayesha Younus ² , Muhammad Shah Nawaz ul Rehman ¹ and Muhammad Mubin ^{1*} , ¹ Center of Agricultural Biochemistry and Biotechnology, Department of Plant Pathology, UAF ² Department of Physics, UAF *mmubin@uaf.edu.pk
	Engineering plants for begomovirus resistance with RNA-guided Cas9 nuclease Muhammad Salman Mubarak ^{1*} , Sultan Habibullah Khan ^{1,2} , Zulqurnain Khan ³ and Aftab Ahmad ^{2,4} . ¹ Centre of Agricultural Biochemistry and Biotechnology (CABB), UAF ² Center for Advanced Studies in Agriculture and Food Security (CAS-AFS), UAF ³ Department of Biotechnology, Muhammad Nawaz Sharif University of Agriculture Multan (MNSUAM), Pakistan. ⁴ Department of Biochemistry, UAF Correspondence: Muhammad Salman Mubarak; msmubarak@gmail.com

TRACK 4: Industrial Biochemistry/ Biotechnology, Biomaterials and Biofuels
(Farmers Syndicate Hall)

SESSION-II	Chair: Dr. Raja Tahir Mahmood, Mirpur University of Science and Technology (MUST), Mirpur-10250 AJK, Pakistan Co-Chair: Dr Razia Noreen, GCUF
Time	Speakers
11:45-12:05	KEYNOTE LECTURE 1: Eco-friendly leather processing using highly active alkaline proteases of bacterial origin Dr Hamid Mukhtar <i>Institute of Industrial Biotechnology, GC University, Lahore-54000, Pakistan</i>
12:05-12:20	Purification and identification of peptides with inhibitory effect against angiotensin-I converting enzyme generated from goat milk ^a Iqra Aslama*, Sadia Javedb, Munazzah Meraja, Farkhanda Arshada and Muhammad Numan ^a Department of Biochemistry, Govt. College University Faisalabad, Pakistan ^b Department of Biochemistry, Peoples University of Medical and Health Sciences for Women, Nawabshah, Pakistan *Presenting author: iqraaslam055@gmail.com

12:20-12:35	<p>Isolation and characterization of thiophenic compound desulfurizing biocatalysts from oil contaminated sites</p> <p>Sana Parveen, Nasrin Akhtar*, Kalsoom Akhtar and Muhammad A. Ghauri Industrial Biotechnology Division, National Institute for Biotechnology and Genetic Engineering, P. O. Box 577, Jhang Road, Faisalabad, Pakistan. *For correspondence: nasrin_379@yahoo.com & nasrin@nibge.org</p>
12:35-12:50	<p>Comparison of biodegradation potential of selected disperse textile dyes by <i>Daedalea dickinsii</i> IEBL-02 and <i>Piptoporus betulinus</i> IEBL-03 and study of ligninolytic enzymes</p> <p>Raja Tahir Mahmood¹, <u>Sufia Tazeen</u>¹, Muhammad Javaid Asad², and Imran Ali¹</p> <p>¹ Department of Biotechnology, Mirpur University of Science and Technology (MUST), Mirpur-10250 AJK, Pakistan ² Department of Biochemistry, PMAS-Arid Agriculture University Rawalpindi, Pakistan Corresponding author: raja.tahir@must.edu.pk</p>
12:50-13:05	<p>Synthesis of Wood Plastic Bio Composites Induced with Bio-waste Material</p> <p>Nadia Akram,*^a Tanzeel Munawar^a</p> <p>^a Department of Chemistry, GCUF *nadiaakram@gcuf.edu.pk</p>
13:05-13:20	<p>Sorption of crystal violet from aqueous media by biocomposites</p> <p>Aqsa Tahir, Haq Nawaz Bhatti* and Amina Khan Department of Chemistry, University of Agriculture, Faisalabad-Pakistan Email:hnbhatti2005@yahoo.com</p>
13:20-13:30	<p>Mutagenesis of <i>Bacillus subtilis</i> and the Process Optimization for Production of Biosurfactant</p> <p>Mariam Afzal, Muhammad Asgher, *Nimrah Khalid, Sarmad Ahmad Qamar Industrial Biotechnology Lab., Department of Biochemistry, UAF *Presenting Author: nimrahkhalid090@gmail.com</p>

TRACK 5: Chemical and Plant Sciences
(Nestle Hall, NIFSAT)

SESSION-II	<p>Chair: Dr.Kausar Malik, CEMB, Lahore Co-Chair: Dr. Shumaila Kiran, GCUF</p>
Time	Speakers
11:45-12:05	<p>KEYNOTE LECTURE 1: Phytosanitary Risk Management Program in Pakistan – Next Generation Pest Management and Aflatoxins Determination in Horticultural Commodities</p> <p>Sabyan Faris Honey* Centre for Agriculture and Bioscience International (CABI), Regional Centre for Central and West Asia, Rawalpindi, Pakistan.</p>
12:05-12:20	<p>Mercapto-triazole priming for alleviation of cadmium toxicity in wheat</p> <p>Arruje Hameed¹, Amjad Hameed², Shamila Naz³, Matloob Ahmad⁴, <u>Tahir Farooq</u>^{3,*}</p> <p>¹Department of Biochemistry, ³Department of Applied Chemistry, ⁴Department of Chemistry GCUF ²Nuclear Institute for Agriculture and Biology (NIAB), P.O. Box 128, Jhang road Faisalabad, Pakistan. *Corresponding author (e-mail): tahirfarooqfsd@gmail.com</p>
12:20-12:35	<p>Efficacy of heartwood extractives of <i>Albizia lebbek</i> (L.) Benth. against subterranean termites</p> <p>Sohail Ahmed, Sara Kushf, Babar Hassan, Uzair Saleem Department of Entomology, University of Agriculture, Faisalabad</p>
12:35-12:50	<p>Azo Dyes Derivatives for Organic Photovoltaics.</p> <p>Dr Shafiq-ur-Rehman^a, Dr Shamsa Bibi*^a, and Mehwish Khan^a.</p>

	Department of Chemistry, University of Agriculture Faisalabad ^a .
12:50-13:05	NMR based Comparison of bioactive compounds present in human milk and cow's milk Fozia Saleem ¹ , and David S. Wishart ² ¹ Department of CABB, University of Agriculture Faisalabad ² Department of Biological Science, University of Alberta, Canada. (fozia@ualberta.ca , dwishart@ualberta.ca)
13:05-13:20	Microwave assisted sustainable isolation of coconut husk based natural colorant for wool dyeing Shumaila Kiran* , Shahid Adeel, Tahsin Gulzar and Sajjad Yusuf Department of Applied Chemistry, GCUF *Corresponding Author: shumaila.asimch@gmail.com (Shumaila Kiran)
1:20-13:30	Horizontal transmission of <i>Metarhizium anisopliae</i> in economically important fruit fly species (<i>Bactocera</i> spp.) in Pakistan and infective efficacy of fungus against some biological parameters of melon fruit fly. Mubashar Iqbal*, Muhammad Dildar Gogi* and Muhammad Jalal Arif* *Department of Entomology, University of Agriculture, Faisalabad Corresponding Author: mubashariqbal2635@gmail.com
	Evaluation of Mycoflora associated with <i>Phaseolus vulgaris</i> in AJ&K, its impact on germination and management strategies Shoukat Hussain ¹ , Muhammad Ajaib ^{2*} , Rehana Asghar ¹ , Imran Ali ¹ , Muhammad Faheem Siddiqui ^{3*} ² Department of Botany, Mirpur University of Science and Technology (MUST), Mirpur (AJK), Pakistan
	The evaluation of primary or secondary headache in different age group by using computed tomography (CT) as imaging modality Ayesha Tariq ¹ , Sadia Sana ² , Naheed Akhter ² College of Allied Health Professional, GCUF. Email: sadiasana203@gcuf.edu.pk
	Study of antibacterial potential of Thuja orientalis leaves essential oil collected from semi-arid climate Rafia Rehman*, Muhammad Asif Hanif, Muhammad Shahid, Afsar Bano Department of Chemistry, UAF *Corresponding author email: rehman_rafia@yahoo.co.uk
	Evaluation of antifungal potential of leaf extract of <i>Chenopodium murale</i> against <i>Fusarium oxysporum</i> F. sp. <i>Lycopersici</i> *Arshad Javaid ¹ , Syeda Fakehha Naqvi ¹ , Muhammad Zahid Qureshi ² ¹ Institute of Agricultural Sciences, University of the Punjab, Lahore, Pakistan. *Corresponding author's email: arshad.iags@pu.edu.pk , arshadjpk@yahoo.com

13:30-14:30 LUNCH/PRAYER BREAK

Venue: University D-ground

14:30

CLOSING

Venue: Iqbal Auditorium

2nd International Conference of Biochemistry, Biotechnology and Biomaterials

(ICBBB-2018)

December 09- 11, 2018

Biochemistry for better health and environment in the developing world

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