12th National and 3rd International

Conference of Botany

1st – 3rd September 2012

Quaid-i-Azam University

Islamabad, Pakistan

Tentative Conference Program

Organized By:

Pakistan Botanical Society (PBS)

Quaid-i-Azam University, Islamabad, Pakistan

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| **Day 1 – September Ist, 2012** | |
| 8:30 – 9:30 | Participants registration |
| **Inaugural Session** (Earth Science Auditorium) | |
| 9:30 – 9:45 | Guests to be seated / Arrival of the Chief Guest |
| 9:45 – 9:50 | Recitation from the Holy Quran |
| 9:50 – 9:55 | Welcome Address |
| 9:55 – 10:00 | Brief outline of conference |
| 10:00 – 10:30 | Address by VC |
| 10:30 – 10:45 | Address by Honorable Chief Guest, |
| **10:45 – 11:15** | **Tea Break** |

**TECHNICAL SESSION I: - SIMULTANEOUS BEGGINING OF ALL THE FIVE FOCAL THEMES IN THEIR RESPECTIVE HALLS**

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| **Theme 1: Plant Physiology / Stress Physiology / Microbial Interactions**  (Plant Physiology)  (Earth Science Auditorium) (Parallel Session – Day 1) | |
| 11:15 – 11:30 | Oil yield, fatty acid profile, seed yield and yield attributes of sunflower as influenced by autumn planting conditions in Islamabad – by Sami Ullah Khan |
| 11:30 – 11:45 | Morpho-physiological evaluation of groundnut (*Arachis hypogaea* L.) genotypes for iron deficiency tolerance – by Shamim Akhtar |
| 11:45 – 12:00 | Chemical composition and sensory evaluation of tea (*Camellia Sinensis*) commercialized in Pakistan – by Imran Hayat |
| 12:00 – 12:15 | Effect of plant derived smoke solution on adventitious roots of I*pomoea marguerite*, E*ppipremnum pinnatum* and *Rosa indica* incomparison withauxin (indol-3-butyric acid) – by Ghazala Nawaz |
| 12:15 – 12:30 | Study of Phytochemical Constituents from *Ricinus communis* Linn. Roots and Their Effect on Different Strains of Bacteria and Fungi – by Hira Kalim |
| 12:30– 12:45 | *Agrobacterium tumefaciens* mediated optimization of transformation in *Eucalyptus camaldulensis* - Ammara Ahad |
| 12:45 – 1:00 | Performance of summer forage legumes and their residual effect on subsequent oat crop in subtropical subhumid Pothwar (Pakistan) - Imtiaz Ahmad Qamar |
| 1:00 – 1:15 | Physio-morphological responses of native *Acacia nilotica* to *Eucalyptus allelopathy* - F.A. Bughio |
| **1:15 – 2:00** | **Lunch & Prayer Break (Near Earth Sciences Auditorium)** |
| **2:00 ­– 2: 30** | **Key Note Lecture (Earth Sciences Auditorium)** |

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| **Theme 2: Plant Biotechnology / Biochemistry / Bioinformatics**  (Biology Auditorium) (Parallel Session – Day 1) | |
| 11:15 – 11:30 | Selection of Transgenic Cells/Explants using Na+/H+ antiporter gene as a selectable marker – A sustainable approach. By Zahid Ali |
| 11:30 – 11:45 | Factors affecting *Agrobacterium tumefaciens* mediated genetic transformation of Soybean cultivar NARC-7. By Neelam Taj |
| 11:45 – 12:00 | Transgenic Tobacco with rice faegeneshows enhancedresistance to drought stress. By Khizar Hayat Bhatti |
| 12:00 – 12:15 | Integration of novel chlorophyll genes from black pine into the chloroplast genome of Tobacco. By Shahid Nazir |
| 12:15 – 12:30 | Molecular cloning and characterization of ARF1 and COPI coat proteins from *Medicago truncatula* cv. Jemalong. By Holger Densow |
| 12:30– 12:45 | Tissue culture induced somaclonal variation: a potential source of genetic variability for developing drought tolerant plants of wheat. By Imran Mahmood |
| 12:45 – 1:00 | Comparative Artemisinin analysis in *Artemisia annua* and *Artemisia dubia* transformed with two different *Agrobacteria* harbouring *rol ABC* genes. By Bushra Hafeez Kiani |
| 1:00 – 1:15 | Optimization of quantitative real-time PCR analysis for reliable detection and quantification of *Fusarium oxysporum* in wheat. By M. Farooq Hussain Munis |
| **1:15 – 2:00** | **Lunch & Prayer Break (Near Earth Sciences Auditorium)** |
| **2:00 ­– 2: 30** | **Key Note Lecture (Earth Sciences Auditorium)** |

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| **Theme 3: Plant Taxonomy / Ethnobotany**  (Defence & Strategic Studies Auditorium) (Plant Taxonomy – Day 1) | |
| 11:15 – 11:30 | Phylogeny of *Carex* l. (Cyperaceae) from Pakistan based on *matK* gene sequence variation. By Zahid Ullah |
| 11:30 – 11:45 | *Tetrapogon cenchriformis* and *Parapholis strigosa*, (Poaceae), two new reports from Pakistan. By Farooq Ahmad |
| 11:45 – 12:00 | A New Species of *Catenulostroma o*n *Azadirachta indica* from Pakistan. By Tehreema Iftikhar |
| 12:00 – 12:15 | Systematic Identification of genus *Brachiaria* on the basis of vegetative and floral morpho-palynological markers (LM & SEM). By Shabnum Shaheen |
| 12:15 – 12:30 | Floristic account of emergent-aquatic and marshland angiosperms of D. I. Khan District, KPK, Pakistan. By Sarfaraz Khan Marwat |
| 12:30– 12:45 | Taxonomic and phytochemical authentication of herbal drug Barg - e- Henna (*Lawsonia innermis*): A multiuse medicinal plant  By Shazia Sultana |
| 12:45 – 1:00 | **Invited speaker** |
| 1:00 – 1:15 | **Invited speaker** |
| **1:15 – 2:00** | **Lunch & Prayer Break (Near Earth Sciences Auditorium)** |
| **2:00 ­– 2: 30** | **Key Note Lecture (Earth Sciences Auditorium)** |

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| **Theme 4:**  (International Relations Auditorium) (Parallel Session – Day 1) | |
| 11:15 – 11:30 | Phosphate Solubilizing Bacteria Associated With Vegetables Roots In Different Ecologies. By Alia |
| 11:30 – 11:45 | Life form diversity in vegetation of the Cholistan desert. By Amir Muhammad Khan |
| 11:45 – 12:00 | Study of Pollutants (Toxic/Heavy metals) in some edible fruits of Quetta. By Amna Bano |
| 12:00 – 12:15 | Green mold as a potential scavenger of CR(vi). By Amna Shoaib |
| 12:15 – 12:30 | Pytosociological studies of the vegetation of sarsawa hills district Kolti, Azad Kashmir. By Ashfaq Nazir |
| 12:30– 12:45 | An Appraisal Of Ecological Distribution Of Herbaceous Flora At Gatwala Forest Park (GFP), Faisalabad, Pakistan. By Beenish Malik |
| 12:45 – 1:00 | Use of bioremediated sewage effluent for fish survival. By Kanwal Waqar |
| 1:00 – 1:15 | The Potential of *Chlorella vulgaris* for Wastewater Treatment and Biodiesel Production. By Farooq Ahmad |
| **1:15 – 2:00** | **Lunch & Prayer Break (Near Earth Sciences Auditorium)** |
| **2:00 ­– 2: 30** | **Key Note Lecture (Earth Sciences Auditorium)** |

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| **Theme 5: Agriculture Agronomy, Horticulture, Plant Breeding & Genetics**  (Chemistry Auditorium) (Parallel Session – Day 1) | |
| 11:15 – 11:30 | Effect of nitrogen fertilizer on the yield of Mungbean cultivars under the agroclimatic conditions of Quetta. by Abdul Kabir Khan |
| 11:30 – 11:45 | Callogenesis and embryogenesis in orchid (*Dendrobium sabin* H.) under different levels of growth regulators**.** By Akbar Ali Bhatti |
| 11:45 – 12:00 | Management of black scurf of potato with effective microbes, biological potassium fertilizer (bpf), and *Trichoderma harzianum.* by Farah Naz |
| 12:00 – 12:15 | Leaf rust resistance in semidwarf wheat cultivars: a conspectus of post green revolution period in Pakistan. By Ghulam Mustafa |
| 12:15 – 12:30 | Field evaluation of three Saudi Arabian date palm varieties (Ajwa, Safawi and Ruthana) at Khairpur, Pakistan. By Ghulam Sarwar Markhand |
| 12:30– 12:45 | Identification and characterization of post harvest fungal pathogens of mango from domestic markets of Punjab. By Hamd Meer |
| 12:45 – 1:00 | Effect of pruning on sex expression and its relation with phytohormones content in monoecious cucumber. By Hidayatullah |
| 1:00 – 1:15 | Line × tester analysis for grain yield and yield related traits in maize variety Sarhad white. By Hidayat ur Rahman |
| **1:15 – 2:00** | **Lunch & Prayer Break (Near Earth Sciences Auditorium)** |
| **2:00 ­– 2: 30** | **Key Note Lecture (Earth Sciences Auditorium)** |
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**TECHNICAL SESSION II: - SIMULTANEOUS BEGGINING OF ALL THE FIVE FOCAL THEMES IN THEIR RESPECTIVE HALLS**

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| **Theme 1: Plant Physiology / Stress Physiology / Microbial Interactions**  (Stress Physiology)  (Earth Sciences Auditorium) (Parallel Session – Day 1) | | |
| 2:40– 2:55 | | Interactive effect of foliar application of nitric oxide (NO) and salinity on wheat (*Triticum aestivum* L.) – By Farhana Kausar |
| 2:55 – 3:10 | | Gas Exchange Attributes Can Be Valuable Selection Criteria For Salinity Tolerance In Canola Cultivars (*Brassica napus* L.) – By Erum Mukhtar |
| 3:10 – 3:25 | | Higher Antioxidant Capacity Protects Photosynthetic Activities As Revealed By Chl A Fluorescence In Drought Tolerant Tomato Genotypes – By Fakhra Shamim |
| 3:25 – 3:40 | | Salicylic acid induced salinity tolerance in Maize (*Zea Mays*) – By Aasma Tufail |
| 3:40 – 3:55 | | Physiological Responses and Drought Resistance Index of Nine Wheat (*Triticum aestivum* L.) Cultivars under Different Moisture Conditions – By Abdul Qayyum |
| 3:55 – 4:10 | | Proline accumulation in bread wheat (*Triticum aestivum* l.) Under different environmental conditions – By Fayyaz-ul-Hassan |
| 4:10 – 4:25 | | Effect of plant extracted smoke and reversion of abscisic acid stress on lettuce – By Muhammad Kamran |
| 4:25 – 4:40 | | Evaluating plant water-use efficiency and yield of coarse rice advance lines/varieties for soil with limited moisture content – By Muhammad Saleem |
| 4:40 – 6:40 | | Poster Session **Plant Physiology / Stress Physiology / Microbial Interactions & Plant Taxonomy / Ethnobotany** |
| **Theme 2: Plant Biotechnology / Biochemistry / Bioinformatics**  (Biology Auditorium) (Parallel Session – Day 1) | | |
| 2:40– 2:55 | | Proteomic and transcriptomic approach to explore the molecular basis of adaptation of *Agave americana* to heat stress. By Samina Shakeel |
| 2:55 – 3:10 | | Profiling the Carrot (*Daucus carota*)micrornas and their targets. By  Muhammad Younas Khan Barozai |
| 3:10 – 3:25 | | Leaf proteome analysis of *Clematis chinensis:* a traditional chinese medicine (TCM) by two-dimensional electrophoresis technique. By Muhammad Ishtiaq Ch |
| 3:25 – 3:40 | | In silico prediction of regulatory elements and corresponding protein DNA interactions in plant promoters. By Madiha Tanveer |
| 3:40 – 3:55 | | Bacaterial biofilm formation inhibition by blocking flagellar assembly, By Iram Liaqat |
| 3:55 – 4:10 | | Ascorbate - a regulator of high light induced anthocyanin accumulation. By Uzma |
| 4:10 – 4:25 | |  |
| 4:25 – 4:40 | |  |
| 4:40 – 6:40 | | **Poster Session Plant Physiology / Stress Physiology / Microbial Interactions & Plant Taxonomy / Ethnobotany** |
| **Theme 3: Plant Taxonomy / Ethnobotany**  (Defence & Strategic Studies Auditorium) (Medicinal Plants – Day 1) | | |
| 2:40– 2:55 | Antioxidant potential of root bark of *Berberis lyceum R*oyle. From western  Himalaya Pakistan. By Zia Ur Rehman Mashwani | |
| 2:55 – 3:10 | *In vitro* and *In vivo* anthelmintic activity of *Ferula costata* (kor.) Against gastrointestinal nematodes of sheep. By Siraj Ahmed Kakar | |
| 3:10 – 3:25 | Wild edible plants sold in the local markets of Izmir. By Yunus Dogan. | |
| 3:25 – 3:40 | Phytotherapy among the rural women of district Abbottabad. By Ghulam Mujtaba Shah. | |
| 3:40 – 3:55 | An overview of the atmospheric pollen in Turkey and the Northern Cyprus. By Munir Ozturk. | |
| 3:55 – 4:10 | Indigenous phyto-remedies practiced to cure feminine diseases in tribal communities of Kashmir Himalayas. By Hamayun Shaheen | |
| 4:10 – 4:25 | Speaker 15 | |
| 4:25 – 4:40 | Speaker 16 | |
| 4:40 – 6:40 | Poster Session Plant Physiology / Stress Physiology / Microbial Interactions & Plant Taxonomy / Ethnobotany | |
| **Theme 4: Plants and Environment**  (International Relations Auditorium) (Parallel Session – Day 1) | | |
| 2:40– 2:55 | | Effect of ACC deaminase containing bacteria on growth of wheat seedlings applied with chromium contaminated water. By Iram Shahzadi |
| 2:55 – 3:10 | | Therapeutic horticulture: influencing psychological responses of surgical patients and their environmental assessment scale. By Muhammad Ali Khan |
| 3:10 – 3:25 | | Synthesis of activated carbon from tree sawdust and its usage for diminution of color and cod of paper-mill effluents. By Muhammad Farhan |
| 3:25 – 3:40 | | Allelopethic evaluation of shared invasive plants and weeds of pakistan and japan for environmental risk assessment. By Muhammad Ibrar Shinwari |
| 3:40 – 3:55 | | *Diplotaxis tenuifolia* l. (dc) as a biomonitor of heavy metal pollution alongside the roads in Turkey. By Munir ozturk |
| 3:55 – 4:10 | | Antioxidant and Antimicrobial Activities of an Ethnobotanically Important Plant *Helinus lanceolatus* Wall. ex Brandis of District Kotli, Azad Jammu & Kashmir. By Nazish Javaid |
| 4:10 – 4:25 | | Effect of particulate matter on leaf pigment contents, stomata and leaf area of selected roadside plant species of Sialkot. By Noshin Arif |
| 4:25 – 4:40 | | Bacterial expression, purification and partial characterization of new recombinant cysteine protease from maize leaves: post-transcriptional changes under ozone stress. By Rafiq Ahmad |
| 4:40 – 6:40 | | Poster Session Plant Physiology / Stress Physiology / Microbial Interactions & Plant Taxonomy / Ethnobotany |
| **Theme 5: Agriculture Agronomy, Horticulture, Plant Breeding & Genetics**  (Chemistry Auditorium) (Parallel Session – Day 1) | | |
| 2:40– 2:55 | | Molecular characterization of olive germplasm. By Ihsan Ullah |
| 2:55 – 3:10 | | Analysis of soil microbial biomass dynamics in rainfed wheat fields in arid zone of Pakistan. By Israr Asghar |
| 3:10 – 3:25 | | Tissue culture responses of some wheat (*triticum aestivum* l.) cultivars grown in Pakistan. By Khalid Mehmood |
| 3:25 – 3:40 | | Glu-dt1 allelic variation in synthetic hexaploid wheats derived from durum cultivar ‘decoy’ × Aegilops tauschii accessional crosses. By Madeeha Khalid |
| 3:40 – 3:55 | | Effect of pollen sources and ploidy levels on doubled haploid production in wheat. By Makhdoom Hussain |
| 3:55 – 4:10 | | Developing protocol for genetic transformation of grapes (*Vitis vinefera*) King, s Ruby C.V. Maqsood Ahmed |
| 4:10 – 4:25 | | Therapeutic Horticulture: Influencing Psychological Responses of Surgical Patients and Their Environmental Assessment Scale. By Muhammad Ali Khan |
| 4:25 – 4:40 | | Forage yield as affected by common vetch in different seeding ratios with winter cereals in pothowar. By Muhammad Asad Mukhtar |
| 4:40 – 6:40 | | Poster Session **Plant Physiology / Stress Physiology / Microbial Interactions & Plant Taxonomy / Ethnobotany** |
|  | | **End of the Day I** |

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| **Day 2 – September 2nd, 2012** |

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| **8:45-9:15 Key Note Lecture II**  (Earth Sciences Auditorium) | |
| 8: 45 – 9:15 | **Key Note Lecture II** |

**TECHNICAL SESSION III: - SIMULTANEOUS BEGINNING OF ALL THE FIVE FOCAL THEMES IN THEIR RESPECTIVE HALLS**

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| **Theme 1: Plant Physiology / Stress Physiology / Microbial Interactions**  (Stress Physiology / Plant Pathology)  (Earth Science Auditorium) (Parallel Session – Day 2) | |
| 9:20 – 9:35 | Shoot to root ratio differ in warm season C4-cereals in response to plants competition under low and high water levels - By Amanullah |
| 9:35– 9:50 | Quatitative Trait Loci (QTLs) mapping of drought tolerance at germinaiton stage in a wheat population derived from synthetic hexaploid and opata – By Armghan Shahzad |
| 9:50– 10:05 | Comparing salinity tolerance of five high yielding, non-aromatic rice (*Oryza sativa* L.) Cultivars of Sindh – By G.S. Channa |
| 10:05 – 10:20 | Influence of drought applied at different growth stages on the yield and qualitative traits in maize – by Saba Anwar |
| 10:20 – 10:35 | Differential growth and photosynthetic responses but similar pattern of metal accumulation in sunflower (*Helianthus annuus* L.) cultivars at elevated level of lead and mercury – By Seema Mahmood |
| 10:35 – 10:50 | *In vitro* development and improvement of chromium (vi) affected adventitious roots of *solanum tuberosum* L. with GA3 and IAA application –By Jaffar Ali |
| 10:50 – 11:05 | Effect of *Azospirillum* inoculation on maize (*Zea mays* l.) under drought stress – By Qudsia Bano |
| 11:05 – 11:20 | The effects of humic acid on the growth and quality of maize fodder under organic management – By Ihsanullah Daur |
| **11:20 – 11: 45** | **Tea Break** |
| 11:45 – 12:00 | Phenylalanine ammonia-lyase and peroxidase activity in brown rust infected tissues of Pakistani wheat cultivars – By Adnan Riaz |
| 12:00 – 12:15 | Chemical Control of Sudden Decline Disease of Date Palm (*Phoenix dactylifera* L.) in Sindh, Pakistan – By Wazir Ali Maitlo |
| 12:15 – 12:30 | Chitinolytic activity of indigenous Trichoderma spp. against different fungal phytopathogens – By Shahzad Munir |
| 12:30 – 12:45 | Antimicrobial potentials of fresh A*llium cepa* against gram positive and gram negative bacteria and fungi – By Jehan Bakht |
| 12:45 – 1: 00 | Presence of bioactive compound in *lepidium sativum* L. Exudates: role in allelopathy – By Amjad Iqbal |
| 1:00 – 1: 15 | Shoot to root ratio differ in warm season C4-cereals in response to plants competition under low and high water levels - By Amanullah |
| **1:15 – 2:00** | **Lunch & Prayer Break (Near Earth Sciences Auditorium)** |
| **2:00 ­– 2: 30** | **Key Note Lecture III (Earth Sciences Auditorium)** |
| **Theme 2: Plant Biotechnology / Biochemistry / Bioinformatics**  (Biology Auditorium) (Parallel Session – Day 2) | |
| 9:20 – 9:35 | Analysis of Pakistani Rice genome polymorphism by using RAPD PCR. By S. Rani  S. Rani |
| 9:35– 9:50 | Alternate resistance gene against yellow rust in wheat. By Shahzadi Faiza Safdar |
| 9:50– 10:05 | Comparative assessment of glutenin composition and their relationship with grain quality traits in bread wheat germplasm. By Ahmad Ali |
| 10:05 – 10:20 | Estimation of genetic diversity among the transgenic cotton cultivars. By Hassan Abbas |
| 10:20 – 10:35 | Molecular mapping of stripe rust resistance gene *yrsn78* in wheat line shaannong78. By muhammad azeem asad |
| 10:35 – 10:50 | Development and Characterization of Barley Core Collection: A Strategy for Germplasm Management. By Rehan Naeem |
| 10:50 – 11:05 | Genetic divergence among Pakistani bread wheat varieties and advanced lines for randomly amplified polymorphic DNA (RAPD) markers. By Raheela Rehman |
| 11:05 – 11:20 | Development of putative molecular markers to trace durable rust resistance genes in wheat breeding stocks. By Maryum Zeb |
| **11:20 – 11: 45** | **Tea Break** |
| 11:45 – 12:00 | Quantitative trait loci mapping of drought tolerance at germinaiton stage in bread wheat. By Armghan Shahzad |
| 12: 00- 12: 15 | Genetic fingerprinting of local turmeric genotypes using RAPD. By Siffatullah Khan |
| 12:15 – 12:30 | Amplification and sequencing of internal transcribed regions 1& 2, and 5.8S rDNA from local isolates of Fusarium species. By Kanwal Batool |
| 12:30 – 12:45 | BAC derived new SSRs for use in cotton improvement. By Nabila Tabbassum |
| 12:45 – 1: 00 | Assessment of genetic relationship among wheat genotypes by rust resistant markers and bioinformatics tools. Tehsin Gulzar |
| 1:00 – 1: 15 | Molecular identification and comparative analysis of novel *18S ribosomal RNA* genomic sequences of wide range of wild medicinal plants. By Sadia Banaras |
| **1:15 – 2:00** | **Lunch & Prayer Break (Near Earth Sciences Auditorium)** |
| **2:00 ­– 2: 30** | **Key Note Lecture (Earth Sciences Auditorium)** |
| **Theme 3: Plant Taxonomy / Ethnobotany**  (Defence & Strategic Studies Auditorium) (Biodiversity & Conservation) Parallel Session – Day 2) | |
| 9:20 – 9:35 | Phyto-climatic gradient of vegetation and habitat specificity in the high elevation Western Himalayas. By Shujaul Mulk Khan |
| 9:35– 9:50 | Conservation status of traded medicinal plants of Beha valley Swat – Pakistan. Muhammad Ibrar Shinwari |
| 9:50– 10:05 | Linking plant biodiversity with conservation and livelihoodhood improvement of inhabitants in Kalash valley, Chitral Pakistan. asad By Asad Ullah |
| 10:05 – 10:20 | Ethnobotany and conservation status of floral diversity of Himalayan range of Azad Jammu and Kashmir – Pakistan. By Abida Bano |
| 10:20 – 10:35 | Floristic diversity and vegetation distribution in the Siren river catchment Pakistan. By Habib Ahmad |
| 10:35 – 10:50 | Role of indigenous knowledge in biodiversity conservation of an area: A case study on tree ethnobotany of Soona Valley, District Bhimber Azad Kashmir, Pakistan. By Muhammad Ishtiaq Ch. |
| 10:50 – 11:05 | Palynological diversity of Echinops in the tribe Cardueae (Astereae) from Pakistan. By Akbar Ali Meo |
| 11:05 – 11:20 | Ethno-medicinal assessment of some selected wild edible fruits and vegetables of Lesser-Himalayas, Pakistan. By Arshad Mehmood Abbasi |
| **11:20 – 11: 45** | **Tea Break** |
| 11:45 – 12:00 | Flora Of Khanpur dam, Punjab, Pakistan. By Rahmatullah Qureshi |
| 12: 00- 12: 15 | Ethnomedicinal plants used for gastrointestinal ailments by the rural communities of Kaghan valley, Mansehra, Pakistan. By Zafar Jamal |
| 12:15 – 12:30 | Ethnobotanical studies and conservation status of trees of district Abbottabad, Pakistan. By Humaira Saeed |
| 12:30 – 12:45 | An ethnobotanical study of district Mastung, Balochistan, Pakistan. Tahira Mengal |
| 12:45 – 1: 00 | Women indigenous knowledge about medicinal plants of Kuchlak area district Quetta, Balochistan, Pakistan. By Niaz Muhammad Tareen |
| 1:00 – 1: 15 | Floral inventory and ethnobotanical study of Naltar valley, Gilgit district, Pakistan. By Qamar Abbass |
| **1:15 – 2:00** | Lunch & Prayer Break (Near Earth Sciences Auditorium) |
| **2:00 ­– 2: 30** | Key Note Lecture III (Earth Sciences Auditorium) |

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| **Theme 4: Plants and Environment**  (International Relations Auditorium) (Parallel Session – Day 2) | |
| 9:20 – 9:35 | Effect of air pollution on the leaf morphology of common plant species of quetta city. By Saadullah Khan Leghari |
| 9:35– 9:50 | Toxicity and bioaccumulation of heavy metals in spinach seedlings grown on freshly contaminated soil. By Sardar Khan |
| 9:50– 10:05 | Allelopathic interactionof *Tagetes minuta* L. - an environmentally safe bioherbicide. By Sehrish Sadia |
| 10:05 – 10:20 | Wastewater and Soil Quality Assessment of Nullah Lai of Pakistan. By Shazia Iftikhar |
| 10:20 – 10:35 | Accumulation of heavy metals by in vitro cultures of plants. By Shazia Iftikhar |
| 10:35 – 10:50 | Tolerance potential of fungi isolated from polluted soil of Multan. By Shazia Iram |
| 10:50 – 11:05 | Tolerable analysis of the fungi of the peri-urban agricultural area. By Khadija Basharat |
| 11:05 – 11:20 | Heavy Metal Remediation By Fungi. By Sehrish Iqbal |
| **11:20 – 11: 45** | **Tea Break** |
| 11:45 – 12:00 | Effect of ACC deaminase bacteria on tomato plants containing azo dye wastewater. By Shereen Khaliq |
| 12:00- 12: 15 | Effects of lead resistant bacteria on the early growth of *vigna mungo* l. (hepper) under lead stress. By Syeda Shaima Meryem |
| 12:15 – 12:30 | Mangrove Ecosystem – Threats And Management. By Sumera Farooq |
| 12:30 – 12:45 | Management of *Avena fatua* l. And *Rumex dentatus* l., in associated crops with plant extracts. By Tauseef Anwar |
| 12:45 – 1: 00 | An ecological study of endemic plant *Polygonum istanbulicum* keskin and its environs. By Volkan Altay |
| 1:00 – 1: 15 | Interaction of defense pathways in two different isolates of stolbur phytoplasma-infected tomato. By Jam Nazeer Ahmad |
| **1:15 – 2:00** | **Lunch & Prayer Break (Near Earth Sciences Auditorium)** |
| **2:00 ­– 2: 30** | **Key Note Lecture III (Earth Sciences Auditorium)** |
| **Theme 5: Agriculture Agronomy, Horticulture, Plant Breeding & Genetics**  (Chemistry Auditorium) (Parallel Session – Day 2) | |
| 9:20 – 9:35 | Virulence pattern of stripe rust (*Puccinia striiformis*) in Pakistan. By Muhammad Fayyaz |
| 9:35– 9:50 | Molecular genetic variation for stripe rust resistance in Pakistani spring wheat. By Muhammad Iqbal |
| 9:50– 10:05 | Number of genes and their effects controlling grain filling duration in two wheat (*Triticum aestivum* L.) Crosses. By M. Irfaq |
| 10:05 – 10:20 | *Acidovorax avenae* subsp. *avenae* first time causing red stripe of sugarcane in Pakistan. By M.I. Haque |
| 10:20 – 10:35 | The effect of planting date, irrigation and nitrogen on some traits of forage millet (*Pennisetum americanum* var. Nutrifeed). By Muhammad Javad Seghatoleslami |
| 10:35 – 10:50 | Wheat response to various tillage-herbicide interactive systems under semi-arid climate. By M. Ramzan Anser |
| 10:50 – 11:05 | Improvement in fruit yield, quality and fruit droping control in kinnow (*Citrus reticulata* Blanco) through application of growth regulators, potassium and zinc. By M. Yasin Ashraf |
| 11:05 – 11:20 | Tailoring some coarse and fine rice genotypes for low-zinc-input sustainable agriculture. By Nizamuddin Depar |
| **11:20 – 11: 45** | **Tea Break** |
| 11:45 – 12:00 | Variation and distribution in seed storage starch amylose content and its associated 60kd waxy protein band in Pakistan rice genetic resources. By Sadar Uddin Siddiqui |
| 12:00- 12: 15 | Performance evaluation of common clementine on various rootstocks. By Sajjad Hussain |
| 12:15 – 12:30 | Tagging genes for velvet hairiness in cotton using RAPD markers and bulked segregant analysis. By Sajid-ur-Rahman |
| 12:30 – 12:45 | Assessment of genetic diversity in stripe rust resistant NUWYT lines using microsatellite markers. By Sana Liaqat |
| 12:45 – 1: 00 | Screening and stability analysis of salt tolerance wheat genotypes under fields of higher salinities. By Shafqat Farooq |
| 1:00 – 1: 15 | Genetic diversity in basmati and non-basmati rice varieties based on microsatellite markers. By Shahid Masood Shah |
| **1:15 – 2:00** | **Lunch & Prayer Break (Near Earth Sciences Auditorium)** |
| **2:00 ­– 2: 30** | **Key Note Lecture III (Earth Sciences Auditorium)** |

**TECHNICAL SESSION IV: - SIMULTANEOUS BEGINNING OF ALL THE FIVE FOCAL THEMES IN THEIR RESPECTIVE HALLS**

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| **Theme 1: Plant Physiology / Stress Physiology / Microbial Interactions**  (Plant Microbe interactions)  (Earth Sciences Auditorium) (Parallel Session – Day 2) | |
| 2:40– 2:55 | Effect of microbial inoculation on plant growth and remediation of chromium contaminated soil – By Muhammad Yahya Khan |
| 2:55 – 3:10 | A moderately boron-tolerant candidatus novel soil bacterium *Lysinibacillus pakistanensis* sp. nov. cad., isolated from soybean rhizosphere (*Glycine max* L.) – By Rifat Hayat |
| 3:10 – 3:25 | Inoculation of *Rhizobium leguminosarum* with ACC-deaminase containing PGPR for improving growth, nodulation and yield of lentil – By Shafaat Ahmad |
| 3:25 – 3:40 | Precursor (L-tryptophan)-inoculum (rhizobia) interactions for improving growth, yield and nodulation of mung bean (*Vigna radiata* L.) – By Muhammad Ashfaq Anjum |
| 3:40 – 3:55 | Spatial metagenomic analysis of bacterial community associated with wheat rhizosphere grown in rhizobox – By Humera Aslam Awan |
| 3:55 – 4:10 | Screening of PGPR isolates from Semi-arid soil and their implication to alleviate Drought stress -By Samiullah |
| 4:10 – 4:25 | Intra specific variability among *Metarhizium anisopliae* strains in their ability to produce balstospores in liquid culture media – by Abid Riaz |
| 4:25 – 4:40 | Microbial diversity of the rhizosphere of kochia (*Kochia indica*) growing under saline conditions. By Chandni Yaqoob |
| 4:40 - 6: 40 | Poster Session **Plant Biotechnology / Biochemistry / Bioinformatics; Plants and Environment AND Agriculture Agronomy, Horticulture, Plant Breeding & Genetics** |
| **Theme 2: Plant Biotechnology / Biochemistry / Bioinformatics**  (Biology Auditorium) (Parallel Session – Day 2) | |
| 2:40– 2:55 | *In vitro* cytotoxic enhancing activity of triterpen saponins from *Gypsophila pilulifera* on saporin a type-I RIPs. By Idris Arslan |
| 2:55 – 3:10 | HPLC-DAD Analysis and Free Radical Scavenging Potential of *Quercus dilatata L.* By Munazza Ihtisham |
| 3:10 – 3:25 | Comparative analysis of antioxidants against cadmium induced reproductive toxicity in adult male rats. By Mehreen Khan |
| 3:25 – 3:40 | Determination of antioxidant potential of *Carallumatuberculata*callus and plants. By Riaz-ur-Rehman |
| 3:40 – 3:55 | Physiological and genotoxic alterations induced by boron in *Helianthus annuus* L. (sunflower) by Ilhan Dogan |
| 3:55 – 4:10 | Dynamics of mRNA of Glycine-rich RNA-binding protein during wounding, cold and salt stresses in *Nicotiana tabacum*. By Fariha Khan |
| 4:10 – 4:25 | Mining of polymorphic microsatellite markers in silico for diagnosis of basmati rice adulteration. By Mariam Rukhama |
| 4:25 – 4:40 |  |
| 4:40 – 6:40 | Poster Session **Plant Biotechnology / Biochemistry / Bioinformatics; Plants and Environment AND Agriculture Agronomy, Horticulture, Plant Breeding & Genetics** |
| **Theme 3: Plant Taxonomy / Ethnobotany**  (Defence & Strategic Studies Auditorium) (Economic Botany & Ethnobotany Session – Day 2) | |
| 2:40– 2:55 | An ethnobotanical study of medicinal plants in semi-tribal area, Kurd Sharif & Sho, district Karak (Khyber Pakhtunkhawah). By Amin Shah |
| 2:55 – 3:10 | Ethnobotonical apprisial in Southern plains of Takht-e-Suleman hills. By Khalid Ahmad |
| 3:10 – 3:25 | Foliar epidermal studies as an aid to the identification of grasses of tribe Andropogoneae(Poaceae) from salt range of Pakistan. By. Abdul Nazir |
| 3:25 – 3:40 | Floristic inventory of Khabaki Wetland Ramsar site of the Salt Range Wetland Complex, Valley Soon Sakesar District Khushab. By Malik Farooq Ahmed |
| 3:40 – 3:55 | Pollen morphology of *Ajuga L., Lamium L. and Phlomis L.* from Abbottabad district. By Shamila Firdous. |
| 3:55 – 4:10 | Economic evaluation of some plant resources from Neelum Valley Azad Jammu & Kashmir (AJ&K). By Khawaja shafique ahmad. |
| 4:10 – 4:25 | Some physiological and autecological features of *Centaurea kilaea B*oiss. from turkey by Bulent Eskin |
| 4:25 – 4:40 |  |
| 4:40 – 6:40 | Poster Session **Plant Biotechnology / Biochemistry / Bioinformatics; Plants and Environment AND Agriculture Agronomy, Horticulture, Plant Breeding & Genetics** |
| **Theme 4: Plants and Environment**  (International Relations Auditorium) (Parallel Session – Day 2) | |
| 2:40– 2:55 | Evaluation of molecular mapping population from wheat/synthetic hexaploid crosses for drought tolerance. By Waqas Hussain |
| 2:55 – 3:10 | Physiological and genotoxic alterations induced by boron in Sunflower Helianthus annuus L. By Ilhan Dogan |
| 3:10 – 3:25 | Mineral element uptake status of endemic Isoetes anatolica prada & Rolleri populations from bolu-turkey. By Ibrahim Ilker Ozyigit |
| 3:25 – 3:40 | Effect of Ni and Cd on Glucosinolate production in *Thlaspi caerulescens.* BySaeed Ahmad Asad |
| 3:40 – 3:55 | The influence of earthworm *Apporrectodea caliginosa* on the iron transport in two species of Arabidopsis. By Rafiq Ahmad |
| 3:55 – 4:10 | Study of lipid-protein interaction in the secretary pathway of plant cell by raising and using anti-lipid antibodies against particular lipids and proteins in Arabidopsis and Tobacco plants. By Jam Nazeer Ahmad |
| 4:10 – 4:25 | An ecological study of endemic plant *Polygonum istanbulicum* keskin and its environs by Volkan Altay |
| 4:25 – 4:40 | Anatomical adaptations of *Cynodon dactylon* (L.) Pers. from the Salt Range (Pakistan) to salinity stress. II. Leaf anatomy by Mansoor Hameed |
| 4:40 – 6:40 | Poster Session **Plant Biotechnology / Biochemistry / Bioinformatics; Plants and Environment AND Agriculture Agronomy, Horticulture, Plant Breeding & Genetics** |
| **Theme 5: Agriculture Agronomy, Horticulture, Plant Breeding & Genetics**  (Chemistry Auditorium) (Parallel Session – Day 2) | |
| 2:40– 2:55 | Integration of novel chlorophyll genes from black pine into the chloroplast genome of tobacco. By Shahid Nazir |
| 2:55 – 3:10 | Genetic divergence in taramira (*Eruca sativa* L.) germplasm based on quantitative and qualitative characters. By Shehla Shinwari |
| 3:10 – 3:25 | The effect of nitrogen rate and plant density on morphological traits and essential oil yield of coriander. By Seyyed Gholamreza Moosavi |
| 3:25 – 3:40 | Antioxidant activitxy and protecting ability of different cultivars of sugarcane against DNA damage. By Syed Mubashar Sabir |
| 3:40 – 3:55 | Climate change impact on sunflower productivity under agro-environmental conditions of Pakistan: simulation & field study. By Wajid Nasim |
| 3:55 – 4:10 | Agronomic evaluation of cotton (*Gossipium hirsurum* L.) advanced strains for fiber quality and yield parameters under Tando jam environmental conditions. By Z.A. Deho |
| 4:10 – 4:25 | The effects of Ni on *Helianthus annuus* L. tissue cultures in different developmental phases by Ibrahim Ilker Ozyigit |
| 4:25 – 4:40 | Mineral elements in *Veronica scutellata* L. (Grassleaf speedwell) from bolu-turkey: soil-plant interactions by Goksel Demir |
| 4:40 – 6:40 | Poster Session **Plant Biotechnology / Biochemistry / Bioinformatics; Plants and Environment AND Agriculture Agronomy, Horticulture, Plant Breeding & Genetics** |
| **7: 00 - 8: 00** | **PBS General Body Meeting** |
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| **Day 3 – September 3rd, 2012** |

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| **Key Note Lectures IV-V**  (Earth Sciences Auditorium) | |
| 8: 30- 10: 00 | Special Lectures for Award of Medals |
| 10: 00- 11: 30 | Concluding Session |
| 12: 00 pm | Departure for Excursion |