

International Horticulture Conference 2019
February 26-28, 2019
Department of Horticulture, Bahauddin Zakariya University, Multan
Venue: Jinnah Auditorium, Bahauddin Zakariya University, Multan

PROGRAMME

26th February, 2019

Registration:	08:00 am
INAUGURAL SESSION	
Recitation from the Holy Quran	09:00 am
Welcome address	09:15 am
Prof. Dr. Tariq Mahmood Ansari <i>Vice Chancellor</i> <i>Bahauddin Zakariya University Multan, Pakistan</i>	
Key note address	09:30 am
Prof. Dr. Iqrar Ahmad Khan <i>Ex-Vice Chancellor</i> <i>University of Agriculture Faisalabad</i>	
Inaugural address	10:10 am
Dr. Aamir Nawaz Khan <i>Chairman</i> <i>Department of Horticulture, Bahauddin Zakariya University, Multan</i>	
Vote of thanks	10:15 am
Prof. Dr. M. Akbar Anjum <i>President PSHS</i> <i>Department of Horticulture, Bahauddin Zakariya University, Multan</i>	
Tea break	10:30 am

TECHNICAL SESSIONS: 26th February, 2019 (Day one)

There are two parallel sessions at IMS hall and in the Education department

Session I at IMS Hall		
Biodiversity and Evaluation (11:00-13:00)		
Chair: Prof. Dr. Zhenhai Han		
College of Horticulture, China Agricultural University, Beijing		
Co-Chair: Prof. Dr. Muhammad Qasim		
University of Agriculture Faisalabad		
1	Phenological variability in date palm male trees <i>Muhammad Kashif Raza and Naseem Sharif</i>	11:00-11:12 am
2	Ploidy manipulation in guava for germplasm enhancement <i>Muhammad Usman, Mudassar Zaman, Naseer Riaz, Bilquees Fatima and S.A.M. Bokhari</i>	11:12-11:24 am
3	Study on suitability of different rootstocks to overcome the size problem in Feutrel's Early <i>Akbar Hayat, Ehsan Ul Haque, Muhammad Nawaz Khan, Muhammad Asim, Muhammad Raza Salik, Malik Abdul Rehman and Shafqat Ali</i>	11:24-11:36 am
4	Genetic variability and trait association for morphological and yield traits in hot-chili (<i>Capsicum annum</i> L.) <i>Israr Ahmad, Nausherwan Nobel Nawab, Fida Muhammad, Bazeer Khan, Mudassir Abbas, Haroon Aslam, Adnan Rasheed, Muhammad Zakriya Farid, Shahid Nadeem, Ghulam Jellani, Abad Ullah and Shamim Ul Sibtain Shah</i>	11:36-11:48 am
5	Estimation of morpho-biochemical variation in pomegranate (<i>Punica granatum</i> L.) varieties from Afghanistan <i>Waliullah, Summar Abbas Naqvi, Muhammad Jafar Jaskani, Muhammad Shahid, Iqrar Ahmad Khan and Muhammad Waseem</i>	11:48-12:00 am
6	Evaluation of different avocado (<i>Persea americana</i>) cultivars under agro-climatic conditions of Islamabad <i>Muhammad Imran Kasana, Saima Mumtaz, Muhammad Noman, Muhammad Sudheer Tariq, Riaz Alam, Sameera Rehman, Waqas Ahmed Dogar and Shamim ul Sibtain Shah</i>	12:00-12:12 pm
7	Assessing diversity in Pakistani ber germplasm based on morpho-biochemical and color attributes <i>Naseem Sharif, Muhammad Jafar Jaskani, Summar Abbas Naqvi and Muhammad Kashif Raza</i>	12:12-12:24 pm
8	Effect of exotic rootstocks on physico-chemical attributes of Kinnow mandarin fruits <i>Muhammad Ahsan Qureshi, Muhammad Jafar Jaskani and Ahmad Sattar Khan</i>	12:24-12:36 pm
9	Phytochemical characterization and antimicrobial assessment of pomegranate peel extract <i>Mahwish Safdar, Summar A. Naqvi, Muhammad J. Jaskani, Iqrar A. Khan, Waliullah, Imran Pasha, M. Shahid and Asif Hanif</i>	12:36-12:48 pm
10	Evaluation of novel specialty cut flowers for Pakistani markets <i>Iftikhar Ahmad, M. Behzad Rafiq, Bilal Abdullah and Irsan Ali</i>	12:48-13:00 pm

Concluding Remarks		
Lunch and Prayer Break = 13:00 – 14:30		
Session II at IMS Hall		
Propagation (14:30-16:30) Chair = Prof. Dr. Hawa ZE Jaafar Crop Science Department, Faculty of Agriculture, University Putra Malaysia Co-Chair: Prof. Dr. Muhammad Baber Bahauddin Zakariya University Multan		
1	Plant tissue culture for fruit plants in Turkey and role of private sector <i>Muhammad Asim</i>	14:30-14:42 pm
2	Mass production of potato microtubers by using tissue culture techniques and its application in Gilgit Baltistan <i>Fazal Rehman, Shah zaman, Muhammad Khalid and Abdul Noor</i>	14:42-14:54 pm
3	In vitro propagation of white pitahaya (<i>Hylocereus undatus</i>) <i>Muhammad Asim</i>	14:54-15:06 pm
4	Standardization of propagation technique and time in avocado (Cv. Fuerte) under Islamabad conditions <i>Waqas Ahmed Dogar, Muhammad Sudheer Tariq, Mukhtar Ahmad, Riaz Alam, Shahid Riaz, Tanveer Ahmed, Muhammad Nouman, Muhammad Imran and Shamim ul Sibtain Shah</i>	15:06-15:18 pm
5	SWOT analysis of grapes industry in South Punjab, Pakistan <i>Uzman Khall, Kashif Razzaq, Ishtiaq Ahmad Rajwana, Sami Ullah, Muhammad Amin, Hafiz Nazar Farie and Gulzar Akhtar</i>	15:18-15:30 pm
6	Vegetable grafting: An innovative agricultural technology for Pakistan <i>Muhammad Azher Nawaz, Fareeha Shireen, Muhammad Afzal, Waqar Ahmed, Basharat Ali Saleem, Hamza Sohail, Yehia Abouseif, Yuan Huang, and Bie Zhilong</i>	15:30-15:42 pm
7	Influence of gladiolus cultivars and corm size on flower daughter corms production in arid region of Bahawalpur <i>Muhammad Nafees, Ishtiaq Ahmad, Muhammad Ahsan, Muhammad Naveed Aslam, Muhammad Rashid Shaheen, Faisal Zulfiqar and Muhammad Akbar Anjum</i>	15:42-15:54 pm
8	An insight into particle size and their impact on physical and chemical properties of pot media for mango nursery <i>Atif Iqbal, Sidra Kiran, Inam Ullah, Samad Raza, Allah Bakhsh, Fatma Bibi and Iftikhar Ahmad</i>	15:54-16:06 pm
9	Evaluation of various agricultural-based raw materials for development of a local sustainable soilless substrate for nursery raising of <i>Tagetes erecta</i> <i>Shaiza Rasool and Iftikhar Ahmad</i>	16:06-16:18 pm
10	Prospects of ultra-high-density mango plantation in Pakistan <i>Ishtiaq Ahmad Rajwana, Muhammad Amin, Munawar Hussain Almas, Javed Iqbal, Kashif Razzaq, Sami Ullah, Hafiz Nazar Faried and Gulzar Akhtar</i>	16:18-16:30 pm
Concluding Remarks		
Technical Session III: Posters Evaluation (16:30-17:30)		

TECHNICAL SESSIONS: 26th February, 2019 (Day one)

There are two parallel sessions at IMS hall and in the Education department

Session I at Education Department		
Breeding, Genetics and Biotechnology (11:00-13:00)		
Chair = Prof. Dr. Jin Hu		
Zhejiang University Peoples Republic of China		
Co-Chair: Prof. Dr. Hammad Khan		
MNS University of Agriculture Multan		
1	Progress of apple rootstock breeding and its use <i>Zhenhai Han</i>	11:00-11:12 am
2	Carbon dioxide whole plant elicitation: A potential strategy for enhancement and production of plant bioactive compounds <i>Hawa ZE Jaafar</i>	11:12-11:24 am
3	Genetic variability for production traits in hot chili (<i>Capsicum annuum</i> L.) <i>Israr Ahmed, Nausherwan Nobel Nawab, Taj Naseeb Khan, Fida Muhammad, Anisa Intikhab, Aasia Ramzan, Humayun Khan, Ghulam Jellani, Muhammad Farooq, Muhammad Sudheer Tariq, Hidayatullah, Sultan Mehmood, Shahid Nadeem, Muhammad Mazhar Hussain, Rehmat Kabir, Attiq Ur Rehman and Shamim Ul Sibtain Shah</i>	11:24-11:36 am
4	Genetic response of citrus rootstocks against climate change <i>Waqar Shafqat, Muhammad Jafar Jaskani, Rizwana Maqbool and Zulfiqar Ali</i>	11:36-11:48 am
5	Genetic identification of ilium hybrids through genomic in situ hybridization <i>Fahad Ramzan, Adnan Younis, Muhammad Jafar Jaskani and Aman Ullah Malik</i>	11:48-12:00 am
6	QTL analysis of GA₃ content in a diploid potato microtuber population <i>Raja Mohib Muazzam Naz, Abdul Hamid, Syed Zulfiqar Ali Shah, Xingkui Cai and Conghua Xie</i>	12:00-12:12 pm
7	Molecular analysis of mid-season maturing mango (<i>Mangifera indica</i> L.) varieties by using SSR markers <i>Sheeba Rauf, Faiza Shaukat, Birra Bukhari, Nimra Rauf, Almas Gul, Ambreen Mehwish and Muhammad Baber</i>	12:12-12:24 pm
8	Transcriptional regulation networking of <i>Rosa chinensis</i> during flower bud development <i>Nisar Hussain and Faisal Hayat</i>	12:24-12:36 pm
9	Cytological characterization of novel fungal species isolated from wilting guava trees <i>Monis Hussain Shah, Muhammad Usman, Khalid Pervez Akhtar, Bilquees Fatima and Muhammad Shah Nawaz-Ul-Rehman</i>	12:36-12:48 pm
10	Functional characterization of a kunitz-type trypsin inhibitor protein from seeds of <i>Acacia nilotica</i> <i>Sobia Khalid, Sohaib Mehmood, Arslan Ali, Aisha Munawar, Qamar Saeed, Friedrich Buck, Saber Hussain, Ahsan Saeed, Nermeen Kainat and Ahmed Akrem</i>	12:48-13:00 pm

Concluding Remarks		
Lunch and Prayer Break = 13:00 – 14:30		
Session II at Education Department		
Biotic and Abiotic Stresses (14:30-16:30)		
Chair = Prof. Dr. Muhammad Aasim		
Department of Biotechnology, Necmettin Erbakan University, Konya, Turkey		
Co-Chair = Dr. Irfan Afzal		
University of Agriculture Faisalabad		
1	Biochemical and physiological responses of peach rootstocks towards <i>in vitro</i> drought conditions <i>Ishfaq A. Hafiz, Naveed Hamayat, Touqeer Ahmad and Irfan Ali</i>	14:30-14:42 pm
2	Screening of local and exotic chilli (<i>Capsicum annum</i>) for drought tolerance <i>Najma Yousaf Zahid, Kinza Khan, Nadeen Akthar Abbasi and Mubashra Munir</i>	14:42-14:54 pm
3	Assessment of salinity tolerance induction in potato by various salicylic acid concentrations using morpho-physiological, ionic and biochemical indices <i>Hafiz Nazar Faried, C.M. Ayyub, Ishtiaq A. Rajwana, Muhammad Amin, Kashif Razzaq, Fahad Masoud Wattoo and Mohsin Bashir</i>	14:54-15:06 pm
4	Impact of climate change on apple and mango production in China and Pakistan <i>Adnan Arshad, Kamran Yousaf, Qi Hua, Li Ming, Weiwei Zhang, Abdul Mateen and Mehmood-Ul-Hasan</i>	15:06-15:18 pm
5	Assessment of variation in enzymatic and non-enzymatic antioxidants in pea (<i>Pisum sativum</i> L.): Possible use as markers for salt tolerance <i>Sarah Ahmad and Sibgha Noreen</i>	15:18-15:30 pm
6	Improving salt tolerance in spinach through exogenous application of methyl jasmonate <i>Madiha Butt, Muhammad Shafique, Abdul Manan, Tahira Abbas, Umbreen Shahzad and Muhammad Rashid Shaheen</i>	15:30-15:42 pm
7	Alleviate the heat stress in cucumber genotypes by foliar application of chitosan <i>Mujahid Ali, Choudhary Muhammad Ayyub, Zahoor Hussain, Rashid Hussain and Muhammad Ali</i>	15:42-15:54 pm
8	Study on effect of irrigation stress on vegetative and reproductive growth of summer annual flowers under South Punjab condition <i>Gulzar Akhtar, Ishtiaq A. Rajwana, Yasar Sajjad, Sami Ullah, Muhammad Amin, Kashif Razzaq, Nazar Farid and Muqadas Younas</i>	15:54-16:06 pm
9	Effect of different concentrations of salicylic acid on thermotolerance and antioxidant enzyme activities in the seedlings of <i>Luffa aegyptiaca</i> <i>Muhammad Mehran Abbas, Muhammad Awais Ghani, Misbah Azam, C.M. Ayub, Aamir Nawaz, Maryam Munir and Muhammad Azam</i>	16:06-16:18 pm
10	Water logging induced changes in oxidative stress and antioxidant enzymes activities in grafted and non-grafted citrus rootstocks <i>Maryam Tahira, Sajjad Hussain, Muhammad Akbar Anjum, Aamir Nawaz,</i>	16:18-16:30 pm

	<i>Farrukh Naveed, Safina Naz, Khalid Masood, Shaghef Ejaz, Hassan Sardar, Sakeena Tul-Ain Haider, Sajid Ali, Muhammad Sohail and Muhammad Fasih Khalid</i>	
Concluding Remarks		
Technical Session III: Posters Evaluation (16:30-17:30)		

TECHNICAL SESSIONS: 27th February, 2019 (Day two)

There are two parallel sessions at IMS hall and in the Education department

Session I at IMS Hall		
Peri Urban and Urban Crop Productions (09:00-11:00)		
Chair: Prof. Dr. Muhammad Amjad University of Agriculture Faisalabad		
Co-Chair: Dr. Ahmad Sattar Khan University of Agriculture Faisalabad		
1	Growth and biochemical responses of okra (<i>Abelmoschus esculentus</i>) to phosphorus sources supplemented with humic acid <i>Maqsood Ahmed</i>	09:00-09:12 am
2	Effect of different irrigation sources on growth, yield and heavy metals accumulation in some summer vegetables <i>Safina Naz, Muhammad Akbar Anjum and Sakeena Tul Ain Haider</i>	09:12-09:24 am
3	Effect of landscape on the health of patients: A case study <i>Sumit Nadeem, Adnan Younis, Muhammad Qasim and Ashfaq Ahmad Maan</i>	09:24-09:36 am
4	Yield performance of <i>Pleurotus ostreatus</i> on industry and agricultural wastes <i>Nasir Ahmad Khan, Rana Binyamin, Muhammad Rashid Arshad, Osama Bin Abdul Hafeez and Ashir Masroor</i>	09:36-09:48 am
5	Exogenous application of zinc sulfate (ZnSO₄) improved the vegetative growth, yield and quality of strawberry cv. 'Chandler' <i>Sana Shazad, Saeed Ahmad, Raheel Anwar and Rashid Ahmad</i>	09:48 -10:00 am
6	Agro-wastes collection, processing and utilization for bio-briquetting: lessons learned from the participatory action research in Mardan, Pakistan <i>Shams Ali Baig, Sajjad Ali, Muhammad Subhanullad, Khalil Ullah, Muhammad Ali Askar, Muhammad Qasim and Zia Ullah Khan</i>	10:00 -10:12 am
7	Biochemical evaluation of <i>Pleurotus ostreatus</i> and <i>Pleurotus sajar caju</i> by growing on different assortments of cotton waste and turnip leaves <i>Muhammad Muzammil Jahangir, Muhammad Ahsan Khatana, Ghufrana Samin, Waseem Iqbal and Mehvish Mehmood</i>	10:12 -10:24 am
8	Hazard to man and the environment posed by the use of urban waste compost: A review <i>Jawad Hussain, Zakir Hussain, Zeba Tariq, Tahira Yaseen and Ali Ijaz</i>	10:24 -10:36 am
9	Foliar spray of gibberellic acid (GA₃) reduced the preharvest fruit drop and improved the quality of kinnow mandarin <i>Mehwish Liaquat, Saeed Ahmad, Hafiz Muhammad Qasim Ashraf and Ahmad Sattar Khan</i>	10:36 -10:48 am
10	Effect of foliar application of chitosan on growth and spike	10:48 -11:00

	development of tuberose (<i>Polyantes tuberosa</i> L.) <i>Muhammad Asif, Taimur Bashir, Mohsin Bashir and Tooba Suhail</i>	am
Concluding Remarks		
Tea Break = 11:00–11:15		
Session II at IMS Hall		
Post-Harvest Management (11:15-13:15) Chair = Prof. Dr. Aman Ullah Malik University of Agriculture Faisalabad Co-Chair = Prof. Dr. Ishtiaq Ahmed Rajwana MNS University of Agriculture Multan		
1	Effect of moringa leaf extract on postharvest quality management of grapefruit (<i>Citrus paradise</i>) during storage <i>Muhammad Azam, M. Arsalan Khan, Mohammad Hanif, Rashad Qadri, M. Imran Khan, M. Muzammil Jahangir, Zia Ullah Khan, Rafi Ullah and M. Zubair</i>	11:15-11:27 am
2	Effect of ascorbic acid on pericarp browning, biochemical quality and activities of antioxidative enzymes in litchi <i>Muhammad Shafique, Ahmad Sattar Khan, Aman Ullah Malik and Muhammad Shahid</i>	11:27-11:39 am
3	Postharvest quality characteristics of black raspberry fruits harvested at different maturity stages <i>Zia Ur Rehman, Mehdi Maqbool, Noosheen Zahid and Syed Zulfiqar Ali Shah</i>	11:39-11:51 am
4	Effect of storage conditions and packaging material on postharvest life of tomato <i>Samina Khalid, Maria Majeed, Amna Zia, Abu Bakar Umer Farooq, Muhammad Shafique Khalid, Muhammad Irfan Ullah and Tahira Abbas</i>	11:51-12:03 pm
5	Efficacy of gum arabic for quality maintenance and shelf-life enhancement of guava fruit at ambient storage conditions <i>Muhammad Azam, M. Awais, Rashad Qadri, Mohammad Hanif, Hadi Abbas, Khurram Ziaf, M. Imran Khan, M. Muzammil Jahangir, Zia Ullah Khan and M. Haseeb</i>	12:03-12:15 pm
6	Influence of postharvest oxalic acid on physicochemical fruit quality and shelf life of jamun <i>Muhammad Majid Aslam, Sami Ullah, Ishtiaq Ahmad Rajwana, Muhammad Amin, Gulzar Akhtar, Usman Khalil, Hamad Hassan and Kashif Ali</i>	12:15-12:27 pm
7	Influence of wax coatings and modified atmosphere packaging material on physico-mechanical properties and shelf life extension of tomato (<i>Lycopersicon esculentum</i> L.) <i>Muhammad Ali Mumtaz, Faisal Hayat, Hafiz Umer Javed, Fareeha Shireen, Summera Asghar and Aman Ullah Malik</i>	12:27-12:39 pm
8	Combined effect of gum arabic and ginger extract to enhance the shelf life and quality attributes of guava during storage <i>Muhammad Awais, Muhammad Azam, Rashad Qadri, Mohammad Hanif, Imran Khan, M. Imran Khan, Raheel Anwar, Hadi Abbas, Zia Ullah Khan, Daail Rai and Ateeq ur Rehaman</i>	12:39-12:51 pm

9	Use of garlic extract as a botanical to reduce post-harvest losses due to <i>Tribolium castaneum</i> pests in stored almond <i>Muhammad Mubashir Nazir, Shaghef Ejaz, Qamar Saeed, Muhammad Akbar Anjum, Aamir Nawaz, Safina Naz, Sajjad Hussain, Syed Muhammad Zaka and Sajid Ali</i>	12:51-13:03 pm
10	Potential for using a hybrid technology (ozone and ultrasound) for microbial decontamination in spinach and tomatoes and its impact on produce quality <i>Zarghona Siddique, Aman Ullah Malik, Raheel Anwar and Muhammad Inam-ur-Raheem</i>	13:03-13:15 pm
Concluding Remarks		
Lunch and Prayer Break = 13:15-14:15		
Session III at IMS Hall		
Storage and Marketing 14:15-16:15		
Chair = Prof. Dr. Nadeem Akhtar Abbasi PMAS-Arid Agriculture University Rawalpindi Co-Chair = Prof Dr. Abdul Rab University of Agriculture Peshawar		
1	Addressing the postharvest “Technology Gap” for sustainable Agriculture and food security <i>Charles L. Wilson and Aman Ullah Malik</i>	14:15-14:27 pm
2	Influence of cultivar, harvest location and cold storage on postharvest pericarp browning and quality management of litchi fruit <i>Ahmad S. Khan, Aman U. Malik, Sajid Ali, Muhammad Shafiq, R. Hussain I, H.M.S. Shah, Sahar Rasheed, R.N.U, Rehman, M.U. Hasan and R. Anwar</i>	14:27-14:39 pm
3	Sodium nitroprusside treatment preserved postharvest quality and inhibited anthracnose disease of custard apple (<i>Annona squamosa</i> L.) fruit during storage <i>Ghulam Khaliq, Qaisar Habib, Intazar Ali and Hafiz Tassawar Abbas</i>	14:39-14:51 pm
4	Postharvest research and developments in various minor fruits <i>Muhammad Amin, Ishtiaq A. Rajwana, Kashif Razzaq, Sami Ullah, Zohaib Asghar, Shifa Nayab, Hafiz Nazar Faried, Gulzar Akhtar, Hamad Hassan, Kashif Ali, M. Aiyub, Ghulam Mustafa, Uzman Khalil and Majid Aslam</i>	14:51-15:03 pm
5	Constraints to smallholders’ participation in mango value chains in Pakistan <i>Hammad Badar and Burhan Ahmad</i>	15:03-15:15 pm
6	Problems and challenges faced by exporters of mango value chain in Sindh <i>Faiz Muhammad Shaikh, Anwar Ali Shah G. Syed and Muhammad Ismail Kumbhar</i>	15:15-15:27 pm
7	Quality response of wild black raspberry (<i>Rubus occidentalis</i> L.) fruits to harvesting time <i>Mehdi Maqbool, Zia Ur Rehman, Noosheen Zahid, Syed Zulfiqar Ali Shah and Abdul Hamid</i>	15:27-15:39 pm
8	Testing of different pre-harvest chemical management modules for the control of post-harvest of diseases of mango	15:39-15:51 pm

	<i>Muhammad Tariq Malik, Allah Bakhsh, Muhammad Imran, Abid Hameed Khan and Tallal Tariq</i>	
9	Pre-storage dipping of papaya (<i>Carica papaya</i>) fruit in SA solutions reduced the rotting percentage and maintains the quality during cold storage <i>Aliya Hanif, Saeed Ahmad, Muhammad Jafar Jaskani and Rashid Ahmad</i>	15:51-16:03 pm
10	Strawberry fruit colour at harvest determines fruit quality during cold storage <i>Raheel Anwar, Muhammad Taimoor Saeed, Aman Ullah Malik, Ahmad Sattar Khan, Zahoor Hussain and Fakhar-ud-Din Razi</i>	16:03-16:15 pm
Concluding Remarks		
Concluding Session = 16:15-17:00		

TECHNICAL SESSIONS: 27th February, 2019 (Day two)

There are two parallel sessions at IMS hall and in the Education department

Session I at Education Department		
Seed Science and Technology (09:00-11:00)		
Chair: Prof. Dr. Muhammad Akbar Anjum		
Department of Horticulture, Bahauddin Zakariya University, Multan		
Co-Chair: Prof. Dr. Ishfaq Ahmad Hafiz		
Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi		
1	Exogenous spermidine improves seed germination of sweet corn via involvement in phytohormone interactions, H₂O₂ and relevant gene expression <i>Jin Hu</i>	09:00-09:12 am
2	Implementing climate-smart dry chain technology for seed and food security in Pakistan <i>Irfan Afzal, M.A. Basra, M.A. Bakhtavar and Ehsan Khalid</i>	09:12-09:24 am
3	Bio-priming of radish seeds for improving seed quality attributes <i>Osama Bin Abdul Hafeez, Ashir Masroor, Mariam Munir, Rana Binyamin and Asma Akbar</i>	09:24-09:36 am
4	Influence of various concentrations of thiophenate methyl on performance of synthetic seed of potato <i>Ishfaq A. Hafiz, Tahira Kalsoom, Irfan Ali and Touqeer Ahmad</i>	09:36-09:48 am
5	Seed quality enhancement of pea (<i>Pisum sativum</i>) through seed coating <i>Talha Javed and Irfan Afzal</i>	09:48 -10:00 am
6	Bacillus isolates treatment impart differential effect on <i>Raphanus sativus</i> seed germination <i>Ashir Masroor, Gulnaz Kanwal, Osama Bin Abdul Hafeez, Rana Binyamin and Mariam Munir</i>	10:00 -10:12 am
7	Breaking strawberry achenes tegument dormancy through chemical stratification <i>Adeel Ahmad, Fareeha Shireen, Hamza Sohail, Muhammad Azher Nawaz, Waqar Ahmed, Zahoor Hussain and Basharat Ali Salee</i>	10:12 -10:24 am
8	Biochemical and phenolic acid profiling of sunflower hybrid seed varieties treated by different bio-priming agents	10:24 -10:36 am

	<i>Nighat Zia Ud Den, Shazia Anwer Bukhari and Muhammad Shahid</i>	
9	Evaluation of different rootstock and grafting techniques for the growth and development of watermelon <i>Rao Mubeen Ahmed, Hafiz Nazar Faried, Muhammad Amin, Kashif Razzaq, Sher Yar, Asia Rafique, Uzman Khalil and Ghulam Mustafa</i>	10:36 -10:48 am
10	A look at food loss and waste in the context of food security in Pakistan <i>Muhammad Iqbal Makhdum, Muhammad Yaqub Mujahid, Sibgha Noreen and Makhdoom Hussain</i>	10:48 -11:00 am
Concluding Remarks		
Tea Break = 11:00–11:15		
Session II at Education Department		
Diseases and Pest Management (11:15-13:15) Chair = Prof. Dr. Tariq Mukhtar PMAS-Arid Agriculture University Rawalpindi Co-Chair = Prof. Dr. Nazir Javed University of Agriculture Faisalabad		
1	Integrated pest management of melon fruit fly <i>Bactrocera cucurbitae</i> (Coquillett) (Diptera: Tephritidae) on bitter gourd <i>Naima Din, Misbah Ashraf and Muhammad Babar Shahzad Afzal</i>	11:15-11:27 am
2	Effect of host plant on abundance of mango thrips (<i>Scirtothrips dorsalis</i> Hood) (Thripidae: Thysanoptera) in nursery plants <i>Haider Karar, Hamid Raza, Allah Bakhsh, M. Wajid, M. Zubair and Abid Hamid Khan</i>	11:27-11:39 am
3	Managing basal plate rot disease of onion by swinecress weed <i>Arshad Javaid, Lubna Niaz and Amna Shoaib</i>	11:39-11:51 am
4	Influence of pupal disruption on the adult emergence of peach fruit fly <i>Gul Zamin Khan, Muhammad Salman and Alam Zeb</i>	11:51-12:03 pm
5	Color preferences of fruit flies to methyl eugenol traps, population trend and dominance of fruit fly species in citrus orchards of Sargodha, Pakistan <i>Zaheer Sikandar, Dr. Muhammad Babar Shahzad Afzal, Muhammad Umar Qasim, Ansa Banazeer, Abdul Aziz, Muhammad Nawaz Khan, Khalid Mehmood Mughal and Hira Tariq</i>	12:03-12:15 pm
6	Population dynamics of fruit fly in relation to abiotic factors and availability of susceptible mango varieties in Pakistan <i>Abid Hameed Khan, Haider Karar, Allah Bakhsh, Muhammad Tariq Malik, Muhammad Imran, Sidra Kiran, Atif Iqbal, Syed Inam Ullah Shah Bukhari and Samad Raza</i>	12:15-12:27 pm
7	Monitoring the inoculums of mango malformation disease in traditional and improved orchards <i>Muhammad Tariq Malik, Allah Bakhsh, Muhammad Imran, Abid Hameed Khan and Tallal Tariq</i>	12:27-12:39 pm
8	Combined linkage and association mapping reveals novel Qtls and candidate genes for <i>Phytophthora capsici</i> root rot in <i>Capsicum annuum</i> <i>Muhammad Irfan Siddique, Hea-Young Lee, Na-Young Ro, Koeun Han, Jelli Venkatesh, Jin-Kyung Kwon and Byoung-Cheorl Kang</i>	12:39-12:51 pm

9	Effectiveness of fruit bagging for the control of insect pest complex and their impact on quality and yield of mango (<i>Mangifera indica</i> L.) fruit Cv. Retual-12 <i>Haider Karar, M. Wajid, Allah Bakhsh, M. Zubair, Hamid Raza and Abid Hamid Khan</i>	12:51-13:03 pm
10	Evaluation of tomato determinate varieties against gray mold incited by <i>Botrytis cinerea</i> and its management <i>Hafiz Tassawar Abbas, Shahbaz Talib Sahi, Tamoor Khan, Muhammad Rashid, Ghulam Khaliq, Intazar Ali and Muhammad Abuzar Jaffar</i>	13:03-13:15 pm
Concluding Remarks		
Lunch and Prayer Break = 13:15-14:15		
Session III at Education Department		
Physiology, Biochemistry, Cellular and Molecular Biology 13:45-15:45		
Chair = Prof. Dr. Muhammad Baber Institute of Biotechnology, Bahauddin Zakariya University, Multan Co-Chair = Prof. Dr. Jaffar Jaskani University of Agriculture Faisalabad		
1	Production and characterization of brinjal derived from inter and interspecific hybridization between brinjal and its wild relatives <i>Muhammad Mehran Abbas, Muhammad Awais Ghani, Mubashir Zahid, Muhammad Amjad, Khurram Ziaf, Osama –Bin- Abdul Hafeez, Sufyan Ahmad and Rashid Waseem Qadri</i>	13:45-13:57 pm
2	Cloning and characterization of protein phosphate 2c (Pp2c) gene in gerbera hybrida <i>Nigarish Munir, Zhongxiaong Lai, Muhammad Azher Nawaz and Junaid Iftikhar</i>	13:57-14:09 pm
3	Field evaluation of different tuber-dormancy breaking methods in six potato genotypes <i>Muhammad Wasim Haider, Chaudhry Muhammad Ayyub, Aman Ullah Malik, Mahmood Ul Hasan, Rana Naveed Ur Rehman and Mujahid Ali</i>	14:09-14:21 pm
4	Chip sequencing: an emerging technique for dna-protein interaction and histone modification <i>Shahid Iqbal, Muhammad Khalil-Ur-Rehman and Muhammad Khuram Razaq</i>	14:21-14:33 pm
5	Genotyping of late season mango (<i>Mangifera indica</i> L.) varieties by PCR based marker approach <i>Birra Bukhari, Ambreen Mehvish, Faiza Malik, Almas Gul, Nimra Rauf, Sheeba Rauf and Muhammad Baber</i>	14:33-14:45 pm
6	Isolation and functional characterization of an ethylene response factor (rherf09) transcription factor from rose (<i>Rosa hybrida</i>) <i>Muhammad Ali Khan, Gao Junping, Muhammad Imtiaz, Adil Hussain, Ma Nan, Hong Bo, Fazal Jalal, Sikandar Hayat, Sayed Hussain and Fazal Said</i>	14:45-14:57 pm
7	Silver nitrate changes the physiology of reproductive system in parthenocarpic cucumber <i>Muhammad Muzzafar Raza, Shazia Batool, Muhammad Khuram Razaq,</i>	14:57-15:09 pm

	<i>Shahid Iqbal and Etlas Ameen</i>	
8	Identification and functional characterization of a chitin binding protein from seeds of <i>Iberis umbellata</i> L. <i>Ahsan Saeed, Zahra Rafiq, Qamar Saeed, Binish Khaliq, Aisha Munawar, Anwar Ullah, Sohaib Mehmood, Zahid Ali, Muhammad Ateeq, Friedrich Buck and Ahmed Akrem</i>	15:09-15:21 pm
9	Physical fruit thinning improves the physico-chemical characteristics of ‘Sandhuri’ pomegranate <i>Ghulam Mustafa, Ishtiaq A. Rajwana, Hafiz Nazar Faried, M. Amin, Uzman Khalil, Javed Iqbal, M. Hammad and Shafa Nayab</i>	15:21-15:33 pm
10	Tendency of natural fruit drop in commercial mango cultivars during various fruit developmental phases <i>Inam Ullah, Sidra Kiran, Atif Iqbal, Samad Raza, Allah Bakhsh and Abid Hameed Khan</i>	15:33-15:45 pm
Concluding Remarks		
Concluding Session = 16:00-17:00		

28th February, 2019

Session I: Visit to Nursery, Orchards and Processing Industry (09:00-14:00)