



SMART PLANT PROTECTION CONFERENCE 2021

Wednesday, January 27, 2021

Inaugural Session

Institute of Plant Protection, MNS University of Agriculture, Multan, Pakistan



<https://zoom.us/j/96155680267?pwd=SXNadmdCNFpmYzF6VHk1VHdWQ2l3UT09>

Passcode: 565047

Time	Activity
09:00 am – 10:00 am	Arrangements
10:00 am – 10:10 am	Qirat & Translation
10:10 am – 10:30 am	Welcome Address by Prof. Dr. Asif Ali (Vice Chancellor, MNS University of Agriculture Multan)
10:30 am – 10:45 am	Conference Overview Smart Plant Protection: Prof. Dr. Shafqat Saeed
10:45 am – 11:10 am	Keynote Speaker Prof. Dr. Mark Gleason Department of Plant Pathology and Microbiology ATRB Building 2213 Pammel Drive, Iowa State University Ames, Iowa 50011USA, Iowa State University Ames, Iowa USA
11:10 am – 11:35 am	Keynote Speaker Dr. Syed Farooq Shah CEO Razbio Limited UK, Razbio Innovations, SMC Pvt. Ltd. Pakistan
11:35 am – 11:50 am	Address by Chief Guest Honorable Syed Fakhar Imam, Federal Minister for National Food Security and Research, Government of Pakistan
11:50 am – 12:10 pm	Remarks by Guest of Honor Mr. Saqib Ali Ateel, Secretary, Agriculture South Punjab
12:10 pm – 12:20 pm	Vote of Thanks by Prof. Dr. Muhammad Ashfaq

Technical Session-1 (PINK) on 27.01.2021

Chair: Dr. Muhammad Arshad Shakeel

Moderator: Dr. Mirza Abdul Qayyum



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Passcode: 565047

12:30 pm – 1:00 pm	Keynote Speaker Prof. Dr. José Eduardo Serrão Universidade Federal de Viçosa, Department of General Biology 36570-900 Viçosa, MG, Brazil
1:00 pm – 1:15 pm	dsRNA mediated management of <i>Tuta absoluta</i> (Meyrick) (Lepidoptera: Gelechiidae) Muneeb Hassan Hashmi, Allah Bakhsh Agricultural Genetic Engineering, University Graduate School of Natural and Applied Sciences, Niğde Ömer Halisdemir, Niğde, Turkey (muneebshah9@gmail.com)
1:15 pm – 1:30 pm	Novaluron, a chitin synthesis inhibitor, damages midgut cells and interferes with behaviors of <i>Aedes aegypti</i> larvae Muhammad Fiaz, Jamile Fernanda Silva Cossolin, Mirza Abdul Qayyum, Naeem Iqbal, Muhammad Umair Sial, Shafqat Saeed, Unsar Naeem-Ullah, José Eduardo Serrão Department of Entomology, Federal University of Viçosa, Viçosa, MG, Brazil. Institute of Plant Protection, MNS-University of Agriculture, Multan (m.fiaz@mnsuam.edu.pk)
1:30 pm – 1:45 pm	Molecular unpinning the resistance to extreme temperatures by undergoing thermal hardening at nonlethal temperatures in <i>Bactrocera</i> spp Yan Zhao, Xinyue Gu, Jiajiao Wu, Juntao Hu, Ary A. Hoffmann, Bing Chen, Zhihong Li China Agricultural University (zhaoyan1996@126.com)
1:45 pm – 2:00 pm	Pathogenic microorganisms in locust plague control Prof. Dr. Long Zhang Director of Key Laboratory for Biological Control, Ministry of Agriculture, China Agricultural University, Beijing, China (locust@cau.edu.cn)
2:00 pm – 02:15 pm	Diversity of Soil Inhabiting Mites (acari) of Mango Orchards from Dera Ghazi Khan, Pakistan Bilal Saeed Khan, Muhammad Arslan, Muhammad Farooq, Muhammad Hamid Bashir Department of Entomology, University of Agriculture Faisalabad. Ayub Agricultural Research Institute, Faisalabad (bilalentomologyuaf@gmail.com)
02:15 pm – 02:30 pm	Relative expression level of detoxification genes in clothianidin and chlorfenapyr resistant strains of the chive maggot, <i>Bradysia odoriphaga</i> Hina Gul, Farman Ullah, Nicolas Desneuxe, Xiwu Gao and Dunlun Song Department of Entomology, College of Plant Protection, China Agricultural University, Beijing, China. Université Côté d'Azur, INRAE, CNRS, UMR ISA, Nice, France (farmanullah@cau.edu.cn)
02:30 pm – 02:45 pm	Monitoring of citrus fruit fly in IoT based system Sana Tariq, Ayesha Hakim, Unsar Naeem-Ullah, Muhammad Hasnain Department of Computer Science, MNS University of Agriculture, Multan (2019-uam-2739@mnsuam.edu.pk)
02:45 pm – 03:00 pm	Concluding remarks of Chair and Co-Chair

Technical Session-1 (Green) on 27.01.2021

Chair: Prof. Dr. Muhammad Naeem (UAAR)

Moderator: Dr. Naeem Iqbal



<https://us02web.zoom.us/j/82382789628?pwd=YnB3TEMzTEZlOWNPWdDMVHQ0bkE0UT09>

Meeting ID: 823 8278 9628

Passcode: 920230

12:30 pm – 1:00 pm	Keynote Speaker Prof. Dr Wenjiang Huang Director for Key Laboratory of Digital Earth Science, Director of SINO-UK Crop Pest and Disease Forecasting & Management, China
1:00 pm – 1:15 pm	Status of Fall armyworm <i>Spodoptera frugiperda</i> (Lepidoptera, Noctuidae) in South Punjab, Pakistan Alia Tajdar, Chuan Cao, Khalid Abbas, Syed Muhammad Zaka, Hafiz Muhammad Safeer Department of Entomology, Bahauddin Zakariya University, Multan China Agriculture University, China (aliatajdar123@outlook.com)
1:15 pm – 1:30 pm	An Alternate Way to Control <i>Bactrocera dorsalis</i> by Ant Pheromones in Mango Orchard Khalid Abbas, Muhammad Shah Zaib, Muhammad Zakria, Hafiz Muhammad Safeer, Syed Muhammad Zaka, Aiman Ishfaq Department of Entomology, Bahauddin Zakariya University, Multan Pakistan. (zaka_ento@bzu.edu.pk)
1:30 pm – 1:45 pm	Expression Changes of Cytochrome P450 Genes at Low Lethal and Sublethal Concentrations of Acetamiprid in Melon Aphid, <i>Aphis gossypii</i> Farman Ullah, Hina Gul, Kaleem Tariq, Ghulam Murtaza, Asad Ali, Nicolas Desneux, Xiwu Gao, Dunlun Song Entomology and Nematology Department, Steinmetz Hall, University of Florida, Gainesville, FL, USA Université Côte d'Azur, INRAE, CNRS, UMR ISA, 06000 Nice, France (farmanullah@cau.edu.cn; songdl@cau.edu.cn)
1:45 pm – 2:00 pm	Insecticidal induced instability of DNA and antioxidant enzymes in honeybees Sajjad Ali, M. Anjum Aqueel, Asif Sajjad, M. Irfan Ullah, Qaiser Shakil, M. Saqib Ajmal Department of Entomology, Islamia University of Bahawalpur, 63100, Bahawalpur, Pakistan Department of Entomology, University of Sargodha, 40100, Sargodha, Pakistan Department of Plant Pathology, Islamia University of Bahawalpur, 63100, Bahawalpur, Pakistan (sajjad.ali@iub.edu.pk)
2:00 pm – 02:15 pm	Genetic analysis of insecticide resistant populations of <i>Bemisia tabaci</i> (Gennadius) from different localities of South Punjab, Pakistan Qamar Saeed, Muhammad Saghir, Maryam Tanveer, Tatheer-e-Zahra Department of Entomology, Bahauddin Zakariya University, Multan, Pakistan. (qamarphd@gmail.com)
02:15 pm – 02:30 pm	Identification and expression analysis of putative chemosensory protein genes (csps) based on transcriptome analysis of english grain aphid <i>Sitobion avenae</i> (Fabricius) Rana Muhammad Kaleem Ullah, Muhammad Irfan Waris, Muhammad Musa Khan, Man-Qun Wang Hubei Insect Resources Utilization and Sustainable Pest Management Key Laboratory, College of Plant Science and Technology, Huazhong Agricultural University, Wuhan 430070. College of Plant Protection, South China Agricultural University, Guangzhou 510000, China (mqwang@mail.hzau.edu.cn)
02:3 pm – 02:45 pm	Silicon Influence on the Yield Attributes of Wheat (<i>Triticum aestivum</i> L.) and Biology of Aphid <i>Schizaphis graminum</i> Fida Hussain, Azhar Abbas Khan, Yasir Ali, Hafiz Muhammad Aatif, Muhammad Ijaz, Abdur Rahman College of Agriculture, B.Z.U. Bahadur Sub-Campus, Layyah-Pakistan (yasirklasra.uca@gmail.com)

02:45 pm – 03:00 pm	Concluding remarks of Chair and Co-Chair
<p>Technical Session-1 (YELLOW) on 27.01.2021 Chair: Dr. Naveed Malghani (IUB) Moderator: Dr. Hasan Riaz</p>  <p>https://us02web.zoom.us/j/83640188990?pwd=d2paQ0w1SmMrbGovSjladlVfbjh2dz09 Meeting ID: 836 4018 8990 Passcode: 698889</p>	
12:30 pm – 1:00 pm	<p>Keynote Speaker Dr. Mathews L. Paret Associate Professor, North Florida Research and Education Center and Plant Pathology Department, University of Florida USA</p>
1:00 pm – 1:15 pm	<p>Untargeted HS-SPME-GCMS for volatile analysis on postharvest strawberries prior to visible symptoms of Botrytis cinerea infection Nusaibah Syed Ali: Department of Plant Protection, Faculty of Agriculture, University Putra Malaysia (nusaibah@upm.edu.my)</p>
1:15 pm – 1:30 pm	<p>Morphological and genetic characterization of <i>Fusarium oxysporum</i> and its management using weed extract in cotton Muhammad Arslan Khan, Sajid Aleem Khan, Ummara Waheed, Muhammad Raheel, Zulqarnain Khan, Abdul Wahed F. Alrefaeie, Hussein H. Alkhamisf Institute of Plant Protection, MNS University of Multan (arslan.khan@mnsuam.edu.pk)</p>
1:30 pm – 1:45 pm	<p>Identification of Criniviruses Involved in the Yellowing Disease of Cucumber in Multan Region Muhammad Nouman, Rashida Parveen, Ummad ud Din Umar, Muhammad Nouman Tahir, Muhammad Taimoor Shakeel Department of Plant Pathology, FAST, Bahauddin Zakariya University, Multan (taimoorshakeel@bzu.edu.pk)</p>
1:45 pm – 2:00 pm	<p>Diversity of viruses in alfalfa: Role, Mode of transmission and importance in management Jin Li, Yanqi Liu, Shuhua Wei, Guixin Hu, Mark Richard Mcneill and Liping Ban College of grassland science and technology, China agricultural university (liping_ban@163.com)</p>
2:00 pm – 02:15 pm	<p>Effect of different chemicals on floral induction and control of floral diseases in mango cultivar S.B. Chaunsa Muhammad Tariq Malik, Muhammad Imran, Hameed Ullah, Abid Hameed Khan, Syed Inam Ullah Shah Bukhari, Atif Iqbal and Maqbool Ahmad Mango Research Institute, Multan (mtmalik64@gmail.com)</p>
02:15 pm – 02:30 pm	<p>Assessment of the Chili veinal mottle virus CP cistron based transgenic <i>Nicotiana benthamiana</i> plants for virus resistance Tazeem Riaz, Muhammad Ashfaq, Zulqurnain Khan, Muhammad Azam Khan and Muhammad Zeshan Ahmed Department of Plant Pathology, PMAS-Arid Agriculture University, Rawalpindi, Pakistan (mashfaq@mnsuam.edu.pk)</p>
02:30 pm – 02:45 pm	<p>Cucurbitaceae Family from Gujranwala Division of Punjab, Pakistan Muhammad Ashfaq, Muhammad Waqas, Nadeem Ahmed, Muhammad Azam Khan, Rana Binyamin Mirza Abid Mehmood, Hasan Riaz Muhammad Arslan Khan, Zohaib Asad Institute of Plant Protection, MNS-University of Agriculture Multan, Pakistan. (Nadeem.ahmad@mnsuam.edu.pk)</p>
02:45 pm – 03:00 pm	<p>Identification and Genetic Diversity of Garlic virus C (GarV-C) Infecting Garlic in Pakistan Muhammad Zubair Hamza, Muhammad Ashfaq Hasan Riaz, Shafqat Saeed, Muhammad Ahsan and Zohaib Asad Insititue of Plant Protection, MNS University of Agriculture, Multan, Pakistan Department of Plant Pathology, PMAS Arid Agriculture University, Rawalpindi, Pakistan (mashfaq1642@gmail.com)</p>

03:00 pm	Concluding remarks of Chair
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SMART PLANT PROTECTION CONFERENCE
DAY-2
Thursday, January 28, 2021
Institute of Plant Protection, MNS University of Agriculture

Technical Session-2 (PINK) on 28.01.2021
Chair: Prof. Dr. Jalal Arif (UAF)
Moderator: Dr. Umair Sial



<https://zoom.us/j/98827469664?pwd=YXNPdjNWTHhsZkptRONlbnFYzS1VpZz09>
Passcode: 775473

Time	Activity
11:00 am – 11:30 am	Keynote Speaker Dr. Allah Ditta Abid Director General, Federal Plant Protection, Pakistan
11:30 am – 11:45 am	Self-resistance in wheat against grain aphid (<i>Sitobion Avenae</i> F) (Homoptera: Aphididae) relates to amino acids concentration in wheat genotypes Shabab Nasir Department of Zoology, Government College University, Faisalabad (flourenceshabab@yahoo.com)
11:45 am – 12:00 pm	Insecticidal potential of eco-friendly mycoinsecticides for the management of fall armyworm (<i>Spodoptera frugiperda</i>) under in-vitro condition Shahid Hussain, Abdul Rehman, Kazam Ali, Yasar Saleem Khan, Fazlullah Center for Agriculture and Biosciences International (CABI) Rawalpindi, Pakistan (bsagripp@gmail.com)
12:00 pm – 12:15 pm	Earliness index in cotton for the sustainable management of pink bollworm infestation Muhammad Rafiq Shahid, Muhammad Ishtiaq, Muhammad Akram, Ali Raza, Wajid Nazir, Saghir Ahmad Cotton Research Institute, Multan (shahid1364@yahoo.com)
12:15 pm – 12:30 pm	Production of insect resistant transplastomic potato lines against Colorado potato beetle (<i>Leptinotarsa decemlineata</i>) Md Jakir Hossain, Faiz Ahmad Joyia and Allah Bakhsh Department of Agricultural Genetic Engineering, Faculty of Agricultural Sciences and Technologies, Nigde Omer Halisdemir University, 51240 Nigde, Turkey. (mjakirbotru@gmail.com)
12:30 pm – 12:45 pm	Impact of polymorphism and abiotic conditions on prey consumption of <i>Harmonia axyridis</i> Xu Chen, Da Xiao, Xiaoyan Du, Fan Zhang, Liansheng Zang and Su Wang Key laboratory of grain pesticides and agricultural bioengineering, Guizhou University China (lsz0415@163.com)
12:45 pm – 1:00 pm	Ethogram and localization of gustatory sense of <i>Camponotus</i> spp to sugars Waqar Jaleel, Qunchen Li, Qingxing Shi, Lihua LYU Plant Protection Research Institute, Guangdong Academy of Agricultural Sciences, Guangzhou 510640, China (waqar4me@yahoo.com)

1:00 pm – 1:15 pm	<p>Comparative toxicity of phyto-extracts of indigenous flora of Soan Valley against some insect pests of agricultural and urban importance</p> <p>Kanwer Shahzad Ahmed, Muhammad Zeeshan Majeed, Muhammad Afzal, Muhammad Asam Riaz Department of Entomology, College of Agriculture, University of Sargodha, Sargodha, Pakistan (zeeshan.majeed@uos.edu.pk)</p>
1:15 pm – 1:30 pm	<p>Response of the peach fruit fly, <i>Bactrocera zonata</i> (Saunders) to some synthetic proteinaceous food bait attractants</p> <p>M. Hasnain, Shafqat Saeed, Unsar Naeem Ullah, Sami Ullah, Syed Muhammad Zaka Institute of Plant Protection, Faculty of Agriculture and Environmental Sciences, MNS University of Agriculture, Multan (hasnainaro@gmail.com)</p>
1:30 pm – 1:45 pm	Remarks of Chair and Co-Chair and Discussion

Technical Session-2 (GREEN) on 28.01.2021
Chair: Dr. Farmanullah (Peshawar University)
Moderator: Dr. Khalid Mehmood



<https://us02web.zoom.us/j/86804839290?pwd=bkFRaVlkbGp4MmE0azFKVmswZUY0QT09>
Meeting ID: 868 0483 9290
Passcode: 515596

11:00 am – 11:30 am	<p>Keynote Speaker Dr. Sukirno Assistant Professor, Tropical Biology Department, Faculty of Biology, Universitas Gadjah Mada, Indonesia</p>
11:30 am – 11:45 am	<p>Determination of resistance in <i>Phalaris minor</i> Retz. against ALS and ACCase inhibiting herbicides through RISQ test in Punjab, Pakistan</p> <p>Naeem Iqbal, Muhammad Ashraf Ansari, Khurram Mubeen, Unsar Naeem-Ullah, Adeel Bashir Bhatti, Shafqat Saeed Institute of Plant Protection, MNS-University of Agriculture, Multan, Pakistan Syngenta Pakistan Limited, Multan (Naeem.iqbal@mnsuam.edu.pk)</p>
11:45 am – 12:00 pm	<p>Studying biological nitrogen fixation in chickpea in response to molybdenum and pre-emergence herbicide</p> <p>Abu Bakar Zubair, Rao Muhammad Ikram, Amar Matloob, Dr. Nazar Faried, Abdul Ghafar, Fahim Nawaz, Muqarab Ali, Khurum Mubeen, Shahid Iqbal, Mahmood Alam Khan, M. Habib ur Rehman, Hasan Riaz, Muhammad Imran and Wazir Ahmad Department of Agronomy, MNS- University of Multan. (rao.ikram@mnsuam.edu.pk)</p>
12:00 pm – 12:15 pm	<p>Current status of augmentatively mix releasing Trichogramma parasitoids against the rice striped stem borer, <i>Chilo suppressalis</i> in northeastern China</p> <p>Lian-Sheng Zang Professor of Entomology; Key Laboratory of Green Pesticide and Agricultural Bioengineering, Guizhou University, China (lsz0415@163.com)</p>
12:15 pm – 12:30 pm	<p>Establishment of a tobacco plant based transient gene expression system</p> <p>Ashir Masroor¹ and Ursula Mayer Pfitzner² University of Agriculture Faisalabad, Sub-campus Burewala, Vehari FG Allgemeine Virologie, Institut für Genetik, Universität Hohenheim, Stuttgart, Germany (masroorakb@gmail.com)</p>

12:30 pm – 12:45 pm	Silencing the function of Vg gene abolishes egg production in the red palm weevil, <i>Rhynchophorus ferrugineus</i> (Olivier) Khalid Mehmood, Muhammad Tufail, Mureed Husain, Khawaja G. Rasool, Abdulrahman S. Aldawood Institute of Plant Protection, Faculty of Agriculture and Environmental Sciences, MNS University of Agriculture, Multan. Economic Entomology Research Unit, Department of Plant Protection, College of Food and Agriculture Sciences, King Saud University, Riyadh 11451, Saudi Arabia (khalid.mehmood@mnsuam.edu.pk)
12:45 pm – 1:00 pm	Molecular identification and characterization of the begomovirus causing pedilanthus leaf curl disease in Faisalabad Luqman Amrao, Muhammad Zeshan Ahmed, Muhammad Subhan Shafique, Khansa Haque, Hafiz Muhammad Sulaman Ahmad Sahab ¹ , Ahsan Abdullah ⁴ , Misbah Ali ⁵ , Umar Muaz ¹ , Nimra Asghar ¹ Department of Plant Pathology, Faculty of Agriculture, University of Agriculture, 38000, Faisalabad, Pakistan (subhanshafique3@gmail.com)
1:00 pm – 1:15 pm	Spatial variation of weed populations in wheat crops of Sialkot under the influence of various edaphic factors Anum Yousaf, Noreen Khalid Department of Botany, GC Women University, Sialkot (anumy90@gmail.com)
1:15 pm -1:30 pm	Remarks of Chair and Co-Chair

Technical Session-2 (YELLOW) on 28.01.2021

Chair: Dr. Muhammad Usman Raja (UAAR)

Moderator: Dr. Muhammad Zeshan



<https://us02web.zoom.us/j/86568046968?pwd=WXPoRHY1eUVBMctMUitXUndDd3BMUT09>

Meeting ID: 865 6804 6968

Passcode: 086643

11:00 am – 11:30 am	Keynote Speaker Prof. Dr. Tariq Mukhtar UAAR
11:30 am – 11:45 am	Molecular Characterization of Zucchini Yellow Mosaic Virus (Zymv) Infecting Ridge Gourd (<i>Luffa acutangula</i> L) in Punjab, Pakistan Zohaib Asad, B Muhammad Ashfaq, A M. Inam-Ul-Haq, A Gulshan Irshad, C M. Azam Khan Department of Plant Pathology, PMAS-Arid Agriculture University, Rawalpindi, Pakistan (mashfaq1642@gmail.com, mashfaq@mnsuam.edu.pk)
11:45 am – 12:00 pm	Characterization of New Recombinant Begomovirus Infecting <i>Euphorbia pulcherrima</i> in Pakistan Hasan Riaz, Muhammad Ashfaq, Muhammad Imran, Rao Muhammad Ikram, Muhammad Arslan Khan, Ummara Waheed, Sarmad Farogh Arshad, Muhammad Zubair Hamza and Zohaib Asad IPP MNS-UAM & Department of Plant Pathology, PMAS Arid Agriculture, Rawalpindi (h.riazz@gmail.com)
12:00 pm – 12:15 pm	Current Status and Coat Protein Cistron Based Characterization of Cucumber Mosaic Cucumovirus Brinjal Isolates of Subgroup IB from Pothwar Region of Pakistan Muhammad Ashfaq, Sonum Bashir, Rana Binyamin, Zohaib Asad, Mirza Abid Mehmood Institute of Plant Protection, MNS-University of Agriculture Multan, Pakistan. University of Agriculture Faisalabad, Sub-Campus Burewala-Vehari, Pakistan. (mashfaq1642@gmail.com)
12:15 pm – 12:30 pm	Endophyte <i>Bacillus subtilis</i> L1-21 regulates the relationship between nutrients and huanglongbing pathogen <i>Candidatus Liberibacter asiaticus</i> Suhail Asad, Yongmei Li, Shahzad Munir, Pengbo He, Pengfei He, Yixin Wu and Yueqiu He State Key Laboratory for Conservation and Utilization of Bio-resources in Yunnan, Yunnan Agricultural University, Kunming 650201, Yunnan, China (sohailasad74@gmail.com)

12:30 pm – 12:45 pm	<p>Evaluating Anti-Bacterial Compounds for Blight Management in Pomegranate (cv. Sawa) Ghulam Mustafa, Ishtiaq A. Rajwana, H. Nazar Faried, Kashif Razzaq, Sami Ullah, Gulzar Akhtar, Muhammad Amin, Tanveer-ul-Haq, M. Azhar Bashir, M. Tariq Malik and M. Imran Department of Horticulture, MNS University of Agriculture, Multan, Pakistan. Department of Horticulture, Islamia University Bahawalpur, Pakistan (nazar.farid@mnsuam.edu.pk)</p>
12:45 pm – 1:00 pm	<p>Evaluation of Major and Environmentally Driven Genes for Resistance in Pakistani Wheat Landraces and their Prospected Potential against Yellow Rust Muhammad Tariq-Khan, Muhammad Tahir Younas, Javed Iqbal Mirza, Shahid Iqbal Awan, Basharat Mahmood Department of Plant Pathology, Faculty of Agriculture, University of Poonch Rawalakot, Azad Jammu and Kashmir (muhammadtariq@upr.edu.pk)</p>
1:00 pm – 1:15 pm	<p>Molecular Identification and Characterization of Begomovirus Associated with Sponge Gourd Mosaic Disease in Okara Luqman Amrao, Muhammad Subhan Shafique, Muhammad Zeshan Ahmed, Muhammad Ahmad, Salman Ghuffar, Hafiz Arslan Anwaar and Rashid Iqbal Department of Plant Pathology, Faculty of Agriculture, University of Agriculture, 38000, Faisalabad, Pakistan (subhanshafique3@gmail.com)</p>
1:15 pm – 1:30 pm	<p>Role of Soil and Environmental factors in managing fusarium wilt of chillies caused by <i>Fusarium oxysporum</i> f. sp. <i>capsica</i> Khizar Razzaq, Romana Anjum, Amer Habib, Muhammad Zeshan Ahmed, Faizan Ali, Waseem Iqbal, Khizra Zahid and Ahmad Affan Department of Plant Pathology, University of Agriculture Faisalabad, Pakistan (mkhizar012@gmail.com)</p>
1:30 pm – 1:45 pm	<p>Detection of Begomoviruses association with weeds and ornamental plants Shazia Akram, Rashida Atiq, Shahzad Munir State Key Laboratory for Conservation and Utilization of Bio-Resources in Yunnan/Faculty of Plant Protection, Yunnan Agricultural University, Kunming, China (shaziaakram1947@yahoo.com)</p>
1:45 pm – 2:00 pm	Remarks and Discussion
<p>Technical Session-2 (PURPLE) on 28.01.2021 Moderator: Dr. Muhammad Fiaz</p> 	
11:00 am – 11:30 am	<p>Induced expression of heat shock proteins (Hsp90, Hsp70 and Hsp60) is associated with thermotolerance in three rice plant hopper species Shahbaz Ali, Yasir Niaz, Azad Ali, Mubin Zahra, Khurshied Ahmed Khan¹, Ahmad Kamran Department of Agricultural Engineering, Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan, Punjab, Pakistan (shahbaz@kfueit.edu.pk)</p>
11:30 am – 11:45 am	<p>Monitoring neonicotinoids resistance, diagnostic mechanism and cytochrome P450 gene expression in a field population of <i>Myzus persicae</i> (Sulzer) Muhammad Umair Sial, Shafqat Saeed, Saqib Rahman, Muhammad Fiaz, Waqar Jaleel Institute of Plant Protection, Muhammad Nawaz Shareef (MNS) University of Agriculture Multan 60000, Punjab, Pakistan Key Laboratory of Control of Biological Hazard Factors (Plant Origin) for Agriproduct Quality and Safety, Ministry of Agriculture and Rural Affairs of the People's Republic of China, Institute of Plant Protection, Chinese Academy of Agricultural Sciences, Beijing, 100193, PR China (umair.sial@mnsuam.edu.pk)</p>
11:45 am – 12:00 pm	<p>Chemical weed control in wheat raised on stale seedbed Muhammad Bilal Abbas, Khuram Mubeen, Amar Matloob, M. Baqir Hussain, Mudassir Aziz, Muhammad Waqas Yonas Department of Agronomy, Muhammad Nawaz Shareef University of Agriculture Multan (khuram.mubeen@mnsuam.edu.pk)</p>

12:00 pm – 12:15 pm	Low doses of entomopathogens matter hugely, gateway to resistance development and retarded growth in <i>Helicoverpa armigera</i> Mirza Abdul Qayyum, Waqas Wakil, Muhammad Yasin, Muhammad Tahir, Ch. Muhammad Asrar, Kashif Ali, Sumaira Maqsood Institute of Plant Protection, MNS University of Agriculture, Multan (qayyum.mirza@mnsuam.edu.pk)
12:15 pm – 12:30 pm	<i>Bemisia tabaci</i> population flares up by pyrethroids application for pink bollworm management in cotton Rao Muhammad Shamraiz, Shafqat Saeed, Mirza Abdul Qayyum, Zulqurnain Khan Institute of Plant Protection, MNS University of Agriculture, Multan (shamraizrao@gmail.com)
12:30 pm – 12:45 pm	Management of <i>Pectinophora gossypiella</i> resistance against Bt Cotton Mahreen Hanif, Shafqat Saeed, Mudssar Ali, Muhammad Ishtiaq, Zulqurnain Khan Institute of Plant Protection, Muhammad Nawaz Shareef University of Agriculture, Multan, Pakistan (mahreenhanif02@gmail.com)
12:45 pm – 1:00 pm	Significance of taxonomy/systematics in Integrated Pest Management programs of Pakistan Rumail Shahid, Unsar Naeem-Ullah, Abou Bakar Siddique, Shoaib Akhtar and Muhammad Zohaib Aman Institute of Plant Protection, Muhammad Nawaz Shareef University of Agriculture, Multan, Pakistan (rumailshahid@yahoo.com)
1:00 pm – 1:15 pm	Insecticidal and growth inhibitory potential of phytofabricated nanoparticles of titanium dioxide against <i>Cryptolestes ferrugineus</i> Amer Rasul, Muhammad Sagheer, Zunnu Raen Akhter, Liaqat Mukhtar, Hamza Latif, Mubeen Khaliq, Muhammad Abdul Haseeb, Muhammad Ali and Muhmmad Sohail Department of Entomology, University of Agriculture, Faisalabad (dr.muhammad.sagheer@uaf.edu.pk)
1:15 pm – 1:30 pm	Remarks and Discussion

Closing Session
(28.01.2021)



<https://zoom.us/j/98827469664?pwd=YXNPdjNWTHhsZkptRONibFYzS1VpZz09>

Passcode: 775473

2:25 pm	Qirat
2:30 pm – 2:45 pm	Address by the Guest of Honor
2:45 pm – 3:00 pm	Address by the Chief Guest
3:00 pm – 3:15 pm	Recommendations of the Conference (Prof. Dr. Shafqat Saeed)
3:15 pm – 3:30 pm	Address of Vice Chancellor, MNS-UAM (Prof. Dr. Asif Ali)
3:30 pm – 3:45 pm	Vote of Thanks