

PSHS
International

Horticulture

CONFERENCE

(IHC 2022)

17 | 18 | 19
MAY, 2022



Conference Program



Gomal University, D.I.Khan, KP, Pakistan

International Horticulture Conference
(Horticulture for Stronger Economy)

May 17-19, 2022

Conference Program

**Pakistan Society for Horticultural
Science**

Venue

**Gomal University, Dera Ismail Khan,
Khyber Pakhtunhwa, Pakistan**

The Advisory Committee

- Prof. Dr. Iftikhar Ahmad (Tamgha-e-Imtiaz), Vice Chancellor, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan
- Prof. Dr. Niamat Ullah Babar, Registrar, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan
- Prof. Dr. Muhammad Saleem Jilani, Dean, Faculty of Agriculture, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan

Conference Coordinator & Secretariat

- Dr. Muhammad Sohail Khan, Assistant Professor, Department of Horticulture, Faculty of Agriculture, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan
- Dr. Atiq Ahmad Alizai, Assistant Professor, Department of Horticulture, Faculty of Agriculture, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan

The Scientific Committee

International / Foreign Experts:

- Dr. Paul C. Struik, Professor, Crop Physiology, Centre for Crop Systems Analysis, Wageningen University, The Netherlands
- Dr. Şahane Funda Arslanoğlu, Associate Professor, University of Ondokuz Mayıs, Turkey
- Dr. Murat Deveci, Associate Professor, Namik Kemal University, Turkey
- Dr. Fatih Öner, Associate Professor, Ordu University, Turkey
- Dr. Sujata Upadhyay, Assistant Professor, Department of Horticulture, Sikkim University, India

National Experts:

- Dr. Muhammad Sohail Khan, Assistant Professor, Department of Horticulture, Faculty of Agriculture, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan
- Dr. Atiq Ahmad Alizai, Assistant Professor, Department of Horticulture, Faculty of Agriculture, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan
- Dr. Kashif Waseem, Assistant Professor, Department of Horticulture, Faculty of Agriculture, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan
- Dr. Syed Noor Muhammad Shah, Assistant Professor, Department of Horticulture, Faculty of Agriculture, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan
- Dr. Muhammad Mamoon Ur Rashid, Assistant Professor, Department of Entomology, Faculty of Agriculture, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan
- Dr. Malik Muhammad Hashim, Assistant Professor, Institute of Food Science & Nutrition, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan
- Dr. Rafia Younas, Assistant Professor, Department of Environmental Science, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan
- Dr. Raheel Anwar, Assistant Professor, Institute of Horticultural Sciences, University of Agriculture, Faisalabad
- Dr. Gohar Ayub, Professor, Department of Horticulture, Faculty of Crop Production Sciences, The University of Agriculture Peshawar, Pakistan
- Dr. Dost Muhammad, Professor, Department of Soil & Environmental Sciences, Faculty of Crop Production Sciences, The University of Agriculture Peshawar, Pakistan
- Dr. Syed Sartaj Alam, Associate Professor, Department of Plant Pathology, Faculty of Crop Production Sciences, The University of Agriculture Peshawar, Pakistan
- Dr. Ali Raza Gurmani, Associate Professor, Department of Soil & Climate Sciences, The University of Haripur, Khyber Pakhtunkhwa, Pakistan
- Dr. Sabaz Ali Khan, Associate Professor, Department of Biotechnology, COMSATS University Islamabad, Abbottabad Campus, Pakistan
- Dr. Ghulam Mustafa Shah, Associate Professor, Department of Environmental Sciences, COMSATS University Islamabad, Vehari Campus, Pakistan
- Dr. Samina Khalid, Assistant Professor, Department of Environmental Sciences, COMSATS University Islamabad, Vehari Campus, Pakistan

May 17, 2022

Inaugural Session

Venue: Dr. A.Q. Khan Auditorium, Gomal University, Dera Ismail Khan, Pakistan

08:00 AM	Guests Registration
09:00 AM	Recitation from the Holy Quran Muhammad Raza
09:05 AM	Naat-e-Rasool-e-Maqbool (SAW) Toqir Hassan
09:10 AM	Welcome Remarks <i>Prof. Dr. Muhammad Saleem Jilani, President PSHS and Convener IHC 2022</i>
09:20 AM	Overview of Pakistan Society for Horticultural Sciences <i>Dr. Raheel Anwar, Assistant Professor/IT Secretary (PSHS), Institute of Horticultural, University of Agriculture, Faisalabad</i>
09:30 AM	Enhancing of Potato, Onion and Tomato (POT) production, issues, challenges and way forward. Dr. Syed Waseem-ul-Hassan, Food Security Commissioner, Islamabad
09:40 AM	Status and Potential of Horticulture in Khyber Pakhtunkhwa <i>Mr. Fazli Wahab, Director Agriculture Research, Merged Areas, Khyber Pakhtunkhwa, Pakistan</i>
09:50 AM	Remarks by the Chief Guest <i>Prof. Dr. Ifikhar Ahmad (Tamgha-e- Imtiaz), Vice Chancellor, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan</i>
10:15 AM	Opening Ceremony of Stalls
10:20 AM	Group Photo
10:30 AM	Tea Break

Technical Sessions

SESSION I: PLANT PHYSIOLOGY AND ECOLOGY

Venue: New Senate Hall, Gomal University, Dera Ismail Khan, Pakistan

Chair: Prof. Dr. Ghulam Sarwar Markhand

Co-Chair: Dr. Atiq Ahmad Alizai and Dr. Muhammad Sohail Khan

Time	Title	Presenter
11:00 AM	Keynote Presentation	Prof. Dr. Muhammad Jaffer Jaskani
11:15 AM	Nutritional Importance of Underutilized Horticultural Species	Dr. Sujata Upadhyay
11:30 AM	Towards Quality Seed Potato Production: Impact of Genotype and Physiological Status of Seed-tuber	Dr. Muhammad Sohail Khan
11:45 AM	Comparative Morphological Responses of Different Varieties of <i>Tagetes erecta</i> L. to water stress	Ms. Nudrat Ali
12:00 PM	Mitigation of Cadmium Toxicity through Basal Application of Melatonin in Pepper Seedlings	Dr. Muhammad Saqib
12:15 PM	Spermidine Counters Salt Stress by Limiting Reactive-Oxygen Species (ROS) and Alleviating Antioxidant Defence System in Strawberry	Dr. Muhammad Salman Haider
12:30 PM	Impact of the Soilless Growing System and Greenhouse Environment on Tomato Growth and Productivity	Dr. Nazar Faried
12:45 PM	Field Evaluation of Turf Grass Species Korean (<i>Zoysia japonica</i>) and Tifway (<i>Cynodon transvaalensis</i> × <i>Cynodon dactylon</i>) in Response to Herbicide Treatments	Dr. Ahsan Akram
01:00 PM	Lunch and Prayer Break	

SESSION II: IN VIVO AND IN VITRO PLANT PROPAGATION
Venue: New Senate Hall, Gomal University, Dera Ismail Khan, Pakistan

Chair: Prof. Dr. Muhammad Jafar Jaskani

Co-Chair: Dr. Kashif Waseem and Dr. Syed Noor Muhammad Shah

Time	Title	Presenter
2:00 PM	Pumpkin Rootstocks Improve the Growth of Watermelon under Less Available Boron Conditions	Dr. Fareeha Shireen
2:15PM	Role of Plant Growth Regulators on the In vitro Regeneration of Chrysanthemum (<i>Dendranthema morifolium</i> L.)	Dr. Kashif Waseem
2:30 PM	Micropropagation in Cyclamen: Multiple Shoot Induction through Corms	Ms. Syeda Anum Masood Bokhari
2:45 PM	Micropropagation of Turmeric as an Alternative to a Seed-derived Method for Clean Planting Material	Ms.Mamonila Jahandad
3:00 PM	<i>In vitro</i> Regeneration and Characterization of Colchiploid Germplasm in Acid Lime Cultivars	Dr. Bilquees Fatima
3:15 PM	Influence of Various PGRS on the <i>In Vitro</i> Propagation of Two Potato Cultivars	Dr. Kashif Waseem
3:30 PM	Tea Break	

SESSION III: GROWING MEDIA AND NURSERY MANAGEMENT
Venue: New Senate Hall, Gomal University, Dera Ismail Khan, Pakistan

Chair: Prof. Dr. Gohar Ayub

Co-Chair: Dr. Muhammad Sohail Khan and Dr. Syed Noor Muhammad Shah

Time	Title	Presenter
4:00 PM	Understanding the Role of Biostimulants in Cultivation	Prof. Dr. Jean W. H. Yong
4:15 PM	Impact of Humic Acid Amended Growing Media and IBA on Propagation of Lemon (Cv. Singhar) via Stem Cuttings	Dr. Muhammad Sohail Khan
4:30 PM	Standardization of Growing Media and Propagation Time Using Air Layerage Technique for Lemon	Dr. Atiq Ahmad Alizai
4:45 PM	Effect of Different Substrate Disinfection Methods on the Performance of King Oyster Mushroom (<i>Pleurotus eryngii</i>)	Dr. Hasan Sardar
5:00 PM	Comparative Effect of Seed Priming and Growing Media on Seed Germination and Seedling Growth of Papaya (<i>Carica Papaya</i> L.)	Mr. Muzamil Farooque
5:15 PM	Sugarcane Pressmud: A Potential Agricultural Waste for Containerized Nursery Production of Marigold	Ms. Shaiza Rasool
5:30 PM	<p>Annual General Meeting 2022 Pakistan Society for Horticulture Sciences</p> <p>Venue: New Senate Hall, Gomal University, Dera Ismail Khan, Pakistan</p> <p>Convener: Prof. Dr. Muhammad Saleem Jilani, President, PSHS</p>	

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SESSION IV: GENOTYPE-BY-ENVIRONMENT (G×E) INTERACTION

Venue: New Senate Hall, Gomal University, Dera Ismail Khan, Pakistan

Chair: Prof. Dr. Ahmad Sattar Khan

Co-Chair: Dr. Kashif Waseem and Dr. Muhammad Sohail Khan

Time	Title	Presenter
8:30 AM	Adaptability Performance of Various Exotic Potato Varieties at Multilocations of Gilgit Baltistan	Dr. Muhammad Shah Zaman
8:40 AM	Genotype-by-Environment (G×E) Interaction on the Dynamics of Yield Formation in Okra	Dr. Muhammad Sohail Khan
8:55 AM	Genetic Evaluation for Yield and Quality Attributes in Spinach (<i>Spinacia oleracea</i>) Under Heavy Metals Stress	Mr. Muhammad Adnan Raza
9:05 AM	Assessing Causes and Effects of Declining Chilgoza (<i>Pinus gerardiana</i>) Forests Nuts Yield in South Waziristan Agency, Pakistan	Mr. Imran Khan
9:15 AM	An Overview of Germ Plasm Unit (Tropical), Agriculture Research Institute, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan	Mr. Sheheryar Hafeez
9:30 AM	True Potato Seed Breeding: History, Progress and Prospects	Dr. M. Abdul Rehman Rashid
9:40 AM	Physiological Responses of Grapevine Cultivars at Key Phenological Stages under Varying Environmental Conditions	Mr. Rizwan Rafique
9:50 AM	Impact of Irradiated Pollens on Compatibility and Fruit Traits in Intervarietal Crosses of Guava	Ms. Syeda Anum Masood Bokhari
10:00 AM	Phenotypic Evaluation and Genetic Analysis of Reproductive Phase in F1 Transgenics of Chrysanthemum Plants: A Case Study	Dr. Saba Haider
10:10AM	Zeolite Amendment to Mitigate Pb Stress in Chili Pepper Plants Irrigated by Sewerage Water	Dr. Shaghef Ejaz
10:20 AM	Effect of Foliar Applications of Chitosan and Salicylic Acid on Tomato Genotypes under Heat Stress Conditions	Prof. Dr. Chaudhary Muhammad Ayyub
10: 30 AM	Tea Break	

SESSION V: FRUIT AND VEGETABLE PRODUCTION AND QUALITY

Venue: New Senate Hall, Gomal University, Dera Ismail Khan, Pakistan

Chair: Prof. Dr. Niamat Ullah Babar

Co-Chair: Dr. Muhammad Sohail Khan and Dr. Raheel Anwar

Time	Title	Presenter
11:00 AM	Role of Minor Fruits in the Economy of Pakistan	Prof. Dr. Ishtiaq Ahmad Rajwana
11:15 AM	Date Palm Status in Pakistan: Opportunities and Threats	Prof. Dr. Ghulam Sarwar Markhand
11:30 AM	Overview of Horticulture in Balochistan	Dr. Muhammad Javed Tareen
11:40 AM	Fruit Cultivation for Improving Climate Change Resilience	Prof. Dr. Adel Ahmed Abul-Soad
11:55 AM	Pest Management in landscape areas in Qatar	Mr. Afzal Khalid Chughtai
12:05 PM	Influence of Transplant Time, Foliar Applications and Maturity Stage on Strawberry Plant Health, Yield and Fruit Quality	Dr. Raheel Anwar
12:15 PM	Phenological Response of Red Palm Weevil (<i>Rhynchophorus ferrugineus</i> , Olivier) (Coleoptera: Curculionidae) On Six Different Varieties of Date Palm	Mr. Gul Rehman
12:25 PM	The Role of Plant Breeding On Food Security and Sustainability	Prof. Dr. Mehmet Emin Çalıřkan
12:40 PM	Mitigation of Cadmium Toxicity through Melatonin Application in Strawberry Plants at the Fruiting Stage	Dr. Umbreen Shahzad
12:50 PM	Role of CropLife Pakistan association in Horticulture Crops	Mr. M. Shoaib & Murtaza Quddusi
01:00 PM	Lunch and Prayer Break	
2:00 PM	Identifying and Characterizing the Value Chain Coordination Structures in the Potato Industry of Pakistan	Mr. Hafiz Azhar Rasool
2:10 PM	Does Value Chain Approach Enhance the Profitability of Small Potato Farmers in Punjab?	Dr. Hafiz Mahmood ur-Rehman
2:20 PM	Empowering Smallholder Onion Farmers through Value Chain Approach	Dr. Haibat Ullah Asad
2:30 PM	Yield and Quality Response of Potato to Split Application of Nitrogen and Phosphorous Fertilizers	Prof. Dr. Chaudhary Muhammad Ayyub
2:40 PM	A Case Study on Value Addition Business Led By Rural Women in District Khairpur, Pakistan	Mr. Syed Azeem Hayder
2:50 PM	A Whole Family Approach Improves Gender Inclusion in Onion Value Chain in Rural Sindh	Ms. Iqra Sultan Rajput
3:00 PM	Computer Modeling of Horticultural Crops	Prof. Dr. Gerrit Hoogenboom
3:30 PM	Tea Break	

SESSION VI: POST-HARVEST PHYSIOLOGY AND MANAGEMENT
Venue: New Senate Hall,, Gomal University, Dera Ismail Khan, Pakistan

Chair: Prof. Dr. Ishtiaq Ahmad Rajwana

Co-Chair: Dr. Habib ur Rahman and Dr. Atiq Ahmad Khan

Time	Title	Presenter
3:40 PM	Postharvest Quality Management of Jamun (<i>Syzigium cumini</i> Skeels.) Fruit by Combined Pre- and Postharvest Oxalic Acid Treatment	Dr. Sami Ullah
3:50 PM	Impact of Oxalic Acid on Post-Harvest Shelf Life and Quality of Bell Pepper at Cold Storage	Mr. Rana Muhammad Ateeq Ahmad
4:00 PM	Postharvest L-Cysteine Application on Storage Life and Quality of Commercial Table Grapes Cultivars of Balochistan	Prof. Dr. Ahmad Sattar Khan
4:10 PM	Standardization of Optimum Temperature for Dehydration of Whole Banana	Dr. Mateen sajid
4:20 PM	Effect of Different Packaging Materials on Postharvest Quality and Shelf Life Dynamics of Wild Black Raspberry (<i>Rubus occidentalis</i> L.) fruits	Dr. Mehdi Maqbool
4:30 PM	Improvement of Quality and Shelf-Life of Strawberries Cv. Chandler with Edible Coatings	Dr. Kashif Razzaq
4:40 PM	Short-term Ultrasound Treatment Preserved Fruit Quality and Extended Storage Life of Fresh Strawberries	Dr. Ayesha Maryam
4:50 PM	Improvement in Chilling Tolerance of Harvested Banana Fruits by Hydrogen Sulfide Regulated γ -Aminobutyric Acid Shunt Pathway and Ascorbate Glutathione Cycle	Dr. Sajid Ali
5:00 PM	Application of Hydrocolloids as Biocomposite Coating Delays Ripening and Senescence by Activating Antioxidant Enzymes and Deactivating Cell Wall Degrading Enzymes in Coated Tomato Fruits	Dr. Shaghef Ejaz
5:10 PM	Carboxymethyl Cellulose Coating Maintains Postharvest Qualities of Chiku Fruit during Storage	Dr. Ghulam Khaliq
5:20 PM	Postharvest Dipping of Grapes in Oxalic Acid Solution Improves Physiological and Biochemical Attributes of Berries	Ms.Shafa Nayab
5:30 PM	Mulching Materials Influence Weed Emergence, Plant Growth and Postharvest Quality of Strawberry at Rawalakot, Azad Kashmir	Dr. Noosheen Zahid

CONCLUDING CEREMONY

Venue: Dr. A.Q. Khan Auditorium, Gomal University, Dera Ismail Khan, Pakistan

5:40 PM	IHC-2022 Recommendations <i>Dr. Muhammad Sohail Khan, Assistant Professor, Department of Horticulture, Faculty of Agriculture, Gomal University, Khyber Pakhtunkhwa, Pakistan</i>
6:00 PM	Poster Awards & Shield Distribution
6:20 PM	Vote of Thanks <i>Prof. Dr. Muhammad Saleem Jilani, President PSHS and Convener IHC-2022</i>
6:40 PM	Concluding Remarks <i>Prof. Dr. Iftikhar Ahmad (Tamgha-e- Imtiaz), Vice Chancellor, Gomal University, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan</i>

Poster Presentations

May 18, 2022

Venue: Facilitation Center, Gomal University, Dera Ismail Khan, Pakistan

Mounting of Posters: 08:00 AM – 09:30 AM

Poster Evaluation: 01:00 PM– 02:00 PM

Poster No.	Abstract Title	Presenter
IHC2022P-1	Interactive Response of Genotype and Rooting Volume on Seed Tuber Production	Mr. Muhammad Awaiz
IHC2022P-2	Efficacy of Humic Acid in Combination with Multiple N Levels on the growth and yield of Tomato	Mr. Shafqat Ullah
IHC2022P-3	Influence of Different Nitrogen Doses and Seed Rates on the Growth and Production of Purslane	Mr. Atta Ur Rehman
IHC2022P-4	Impact of Humic Acid on the Performance of Exotic Red Radish Genotypes	Mr. Kashif Hussain
IHC2022P-5	Effect of Plant Spacing on the Production of Turmeric (<i>Curcuma longa</i> L.) Under the Agro-Climatic Condition of Dera Ismail Khan Region	Dr. Mehwish Kiran
IHC2022P-6	Effect of Water Deficit Conditions on Tagetes Varieties in Relation to Bio-chemical Parameters	Ms. Nudrat Ali
IHC2022P-7	Testing the Feasibility of Aquaponics in the Farming Poor Community of Potohar	Dr. Mehwish Liaquat
IHC2022P-8	Vegetable Grafting: Recent Developments in Pakistan	Dr. Muhammad Azher Nawaz
IHC2022P-9	Studies on Phenotypic and Yield Response of Roselle (<i>Hibiscus sabdariffa</i> L.) to Different Sowing Times in Agro-Climatic Conditions of Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan	Dr. Habib ur Rahman
IHC2022P-10	Interactive Response of Humic Acid and Variable Nitrogen Application on Yield Production in Tomato	Mr. Muhammad Salman
IHC2022P-11	Response of Bottle Gourd to Foliar Application of Iron Sulfate	Ms. Erum Rashid

IHC2022P-12	Influence of Exogenous Silicon on Physiological and Antioxidant Enzyme Activities of Tomato (<i>Lycopersicon esculentum</i> L.) Under Salinity	Ms. Erum Rashid
IHC2022P-13	Distinctive Evaluation of Lisianthus (<i>Eustoma grandiflorum</i>) On The Basis of Morphological Characteristics	Ms. Sanjeela Sabahat
IHC2022P-14	Precision Horticulture: A Step towards Sustainable Production	Dr. Muhammad Tahir Akram
IHC2022P-15	Comparative Evaluation of Herbicides and Manual Weeding Effects on the Growth and Yield of Summer Crop of Onion CV. Nasarpuri	Dr. Khurram Ziaf
IHC2022P-16	Phosphorus Dose Effects on Growth, Yield and Quality of Different Varieties of Potato	Dr. Khurram Ziaf
IHC2022P-17	Guava Wilt Disease (GWD): A Silent Pandemic	Ms. Syeda Anum Masood Bokhari
IHC2022P-18	Effect of Plant Based Extract on Phytochemicals and Morphological Properties of Calendula (<i>Calendula officinalis</i> L.)	Mr. Muhammad Muzamil Ijaz
IHC2022P-19	Breaking Bud Dormancy in Grapevines with Garlic and Onion Paste	Dr. Saba Ambreen Memon
IHC2022P-20	Shellac Wax Coating to Improve the Storage Quality and Shelf Life of Strawberry Fruit (<i>Fragaria ananassa</i> L.)	Dr. Saba Ambreen Memon
IHC2022P-21	Pre-Storage Coating of Aloe Vera with Methyl Salicylate Maintained the Quality of Cold Stored Sweet Pepper (<i>Capsicum annum</i> L.)	Dr. Rana Naveed Ur Rehman
IHC2022P-22	Growth and Yield Response of Broccoli to Exogenous Application of Chitosan	Prof. Dr. Chaudhary Muhammad Ayyub
IHC2022P-23	Morphological Variability in Gamma Irradiated Germplasm of Grapefruit	Dr. Muhammad Usman
IHC2022P-24	Diminution of Cadmium Stress in Cucumber Seedlings by Controlling the Photosynthesis and Antioxidant Mechanism by Exogenous Application of Glutamic Acid	Mr. Muhammad Mehran Abbas

IHC2022P-25	Exogenous Application of Glutamic Acid Promoting Cucumber (<i>Cucumis sativus</i> L.) Growth under Salt Stress Conditions	Mr. Muhammad Mehran Abbas
IHC2022P-26	Postharvest Hypobaric Treatment Inhibited Fungal Decay, Maintained Cosmetic Quality and Retained Phytonutrient Profile of Jujube During Low Temperature Storage	Mr. Mahmood Ul Hasan
IHC2022P-27	Genome Wide Analysis of Plant Specific YABBY Transcription Factor Gene Family in Carrot (<i>Daucus carota</i>) and its Comparison with Arabidopsis	Mr. Mujahid Hussain
IHC2022P-28	Plant Water Relations and Efficiency of Various Commonly Used Houseplants	Dr. Muhammad Asif
IHC2022P-29	Advances in the Environmentally Friendly Management of Red Palm Weevil, <i>Rhynchophorus ferrugineus</i> (Coleoptera: Curculionidae)	Mr. Farhan Nayyar
IHC2022P-30	Assessment of Stevia (<i>Stevia rebaudiana</i> Bertoni) Growth under the Climatic Conditions of Dera Ghazi Khan	Dr. Tehseen Ali Jilani
IHC2022P-31	Callus Formation and Plant Regeneration from Shoot Tip of Gladiolus Cormels	Dr. Naseem Sharif
IHC2022P-32	Estimation of Antifungal Potential of Synthetic and Phytochemicals towards Cercospora Leaf Spot Disease of Chilli	Dr. Muhammad Atiq
IHC2022P-33	Combined Use of PGPR and Biogas Slurry to Enhance Growth and Yield Attributes of Spinach Grown Under Chromium Contamination	Mr. Naseem Akhtar
IHC2022P-34	Evaluation of Yield Contributing Traits in Pea with Powdery Mildew Resistant/Susceptible Background Using Generation Means Analysis Approach	Dr. Muhammad Abubakkar Azmat
IHC2022P-35	Influence of Different Levels of Salinity to Check the Growth and Quality of Rose	Mr. Hafiz Muhammad Bilal
IHC2022P-36	Branding and Packaging as Consumer Perceived Quality: Consumer Value Creation of Imported Dates	Mr. Shahan Aziz
IHC2022P-37	Comparison between Registered and Non-Registered Vegetable Growers Regarding Knowledge Level of Production Technologies of Vegetables	Dr. Shafiq Ur Rehman Zia
IHC2022P-38	Effect of Moringa Biostimulant on the Growth and Ornamental Quality of <i>Iris hollandica</i>	Dr. Adnan Younis

IHC2022P-39	Effect of Physical Energies on the Germination and Growth Behaviour of <i>Celosia cristata</i>	Dr. Adnan Younis
IHC2022P-40	Management of Damping-Off Disease of Chili Caused by <i>Pythium aphanidermatum</i> Using Synthetic Chemicals	Dr. Nasir Ahmed Rajput
IHC2022P-41	Rootstock in Plum is a Sustainable Strategy to Control Plum Pox Virus	Ms. Taj Nabi
IHC2022P-42	Estimation of Genetic Variability, Correlation and Path Analysis for Yield and Yield Related Traits in Pea (<i>Pisum sativum</i> L.)	Dr. Amir Shakeel
IHC2022P-43	Assessment of Genetic Diversity in Field Pea (<i>Pisum sativum</i> L.) Germplasm	Dr Amir Shakeel
IHC2022P-44	Genetic Variability and Association among Agronomic Traits in Diverse Pea (<i>Pisum sativum</i> L.) Genotypes	Dr Amir Shakeel
IHC2022P-45	Genetic Variability and Character Association in <i>Solanum lycopersicum</i> L.	Dr Amir Shakeel
IHC2022P-46	Micropropagation of Date palm (<i>Phoenix dactylifera</i> L.)	Mr. Ali Ahmad Shah
IHC2022P-47	Response of Chilli (<i>Capsicum frutescense</i> L.) to Foliar Feeding of Micronutrients and Amino Acids	Dr. Muhammad Irfan Ashraf
IHC2022P-48	Steps towards Mitigating the Drastic Hit of Climate Change on Fruit Ripening of Promising Date Palm Cv. Dhakki	Dr. Shahzada Arshad Saleem Khan
IHC2022P-49	Assessment of Various Organic Compounds like Citric Acid, Sucrose, and Salicylic Acid to Hasten the Display Life of Cut Narcissus (<i>Narcissus tazetta</i>) flower	Mr. Abubakar Baloach

May 19, 2022

TOUR PROGRAM

Time	Activity
7:30 AM	Trip to Germ Plasm Unit (Tropical) & Agriculture Research Institute, Dera Ismail Khan, Khyber Pakhtunkhwa, Pakistan
11:00 AM	End

Acknowledgments



**Department of Horticulture
Faculty of Agriculture,
Gomal University, Dera Ismail Khan
KP, Pakistan**