

## **Botanical Society of Pakistan**



8<sup>th</sup> international and 17<sup>th</sup> National Conference on

"Advances in Plant Science in the Era of Climate Change"

Government College University, Lahore & University of the Punjab, Lahore
October 26-28, 2022



## CONFERENCE PROGRAM











	8th International and 17th National Conference
	on
	"Advances in Plant Science in the Era of Climate Change"
	26 <sup>th</sup> -28 <sup>th</sup> October 2022
	Day 1
	Government College University, Lahore
8:00-9:30	Registration
9:30-11:30	Inaugural Session
7.30-11.30	Recitation of Holy Quran
	Welcome Address by President Botanical Society of Pakistan
	Introductory Remarks by Secretary General Botanical Society of Pakistan
	Remarks by representative of CORTEVA Agriscience Ltd.
	Address by Guest of Honor
	Address by Chief Guest
	Distribution of Souvenirs
11:30-12:00	TEA
	PLENARY SESSION (Bukhari Auditorium, GCU)
	Chair: Prof. Dr. Manzoor H. Somroo
	Co-Chair: Prof. Dr. Arifa Tahir
12:00-12:20	Prof. Dr. Kausar Abdullah Malik
12 20 12 10	Prof. Dr. Senol Akin
12:20-12:40	Stable isotope method to identify energy flow in aquatic food webs.  Prof. Dr. Muhammad Ashraf
12:40-13:00	History and Status of Plant Science Research: A Drift from Upsurge to Destruction of Science.
12:40-15:00	Prof. Dr. Muhammad Qaisar
13:00-13:20	Astraceae in Pakistan and Kashmir - An overview.
13:20-14:20	LUNCH/PRAYER BREAK
	Session 1 (Institute of Industrial Biotechnology, Conference Room)
	Plant Biochemistry, Biotechnology and Bioinformatics
	Chair: Prof. Dr. Muhammad Nauman Aftab
	Co-Chair: Prof. Dr. Sikandar Ali
14:20-14:40	Prof. Dr. Amir Faisal: Identification and characterization of natural and semisynthetic compounds as inhibitors of
Keynote Talk	Aurora and FLT3 kinases.
14:40-14:55	APSECC-2022-OP-46: Sequestration of amylase by microbial fermentation using PGPR
14:55-15:10	<b>APSECC-2022-OP-47:</b> Effect of pre and post sowing GA <sub>3</sub> treatments on morphology, physiology and biochemistry of <i>Cicer arientinum</i> L.
14:55-15:10	APSECC-2022-OP-48: Evaluation of antibacterial potential of endophytic <i>Fusarium</i> spp., isolated from healthy plants
15:10-15:25	and GC-MS profiling of metabolites from Fusarium moniliforme
10.110 10.20	APSECC-2022-OP-49: Mycogenic synthesis of Zinc oxide nanoparticles from a wild mushroom and evaluation of its
15:25-15:40	antifungal potential
	APSECC-2022-OP-50: Production of single cell protein from Rhizopus oligosporus using agro-industrial waste product
15:40-15:55	(Nakku – broken rice) as substrate
	Session 2 (Botany Junior Lecture Theatre)
	Plant Taxonomy and Ethnobotany
	Chair: Prof. Dr. Muhammad Saleem
14.20 14.40	Co-Chair: Dr. Safdar Ali Mirza  Prof. Dr. Anium Powegon. Trichemes membelogy as a toyonomic members in the subfamilies. Powegoinsidese
14:20-14:40 Keynote Talk	<b>Prof. Dr. Anjum Perveen:</b> Trichomes morphology as a taxonomic markers in the subfamilies <i>Boraginoideae Cordioideae</i> from Pakistan and Kashmir
Reynote Talk	APSECC-2022-OP-01: Taxonomic revision of <i>Mentha</i> L. (Lamiaceae), with special emphasis on infraspecific variation
The second secon	11 52 5 2022 - 01 - 11 Taxonomic Tevision of Wienna L. (Lamiaceae), with special emphasis on minaspecial variation
14:40-14:55	within Mentha longifolia L. from Northern Pakistan
14:40-14:55 14:55-15:10	within <i>Mentha longifolia</i> L. from Northern Pakistan <b>APSECC-2022-OP-02:</b> Additions to the genus <i>Cortinarius</i> in Pakistan: with description of five new species
14:40-14:55 14:55-15:10	APSECC-2022-OP-02: Additions to the genus Cortinarius in Pakistan: with description of five new species
14:55-15:10	APSECC-2022-OP-02: Additions to the genus <i>Cortinarius</i> in Pakistan: with description of five new species APSECC-2022-OP-03: Floristic inventory and ethno-botanical survey of the Kinhati Botanical Garden and Rakh

	APSECC-2022-OP-05: Genome size variations among different date palm cultivars ( <i>Phoenix dactylifera</i> L.) by flow
15:40-15:55	cytometry.
	Session 3 (SDSC Conference Room)
	Environmental Applied Botany
	Chair: Prof. Dr. Amin ul Haq Co-Chair: Dr. Abdul-Sattar Nizami
14:20-14:40	Prof. Dr. Khurram Joya: Artificial Photosynthesis and Solar Fuels: Light Harvesting, Water Splitting and CO2
Keynote Talk	Conversion.
	APSECC-2022-OP-08: Spatiotemporal modeling and mapping of soil erosion, sediment transport, and retention services
14:40-14:55	in the terrestrial ecosystem of Pakistan and linkages with SDGs
	APSECC-2022-OP-09: Vegetation structure its regarding conservation status of Talash Valley, District Dir (Lower),
14:55-15:10	Pakistan
15.10.15.25	APSECC-2022-OP-10: Biosorption potential and molecular characterization of metal resistant autochthonous microbes
15:10-15:25	from tannery solid waste  APSECC-2022-OP-11: Exogenous Application of Green Titanium Dioxide Nanoparticles (TiO2 NPs) on Wheat in
15:25-15:40	Response to Salinity Stress
13.23 13.40	APSECC-2022-OP-12: Evaluation of phytoremediation potential of four wetland plant species for the removal of heavy
15:40-15:55	metals from Textile mill effluents (TME)
	Session 4 (Physics Seminar Room)
	Plant Physiology
	Chair: Prof. Dr. Qurat ul Ain
14:20-14:40	Co-Chair: Prof. Dr. Zubaida Yousuf
Keynote Talk	<b>Prof. Dr. M. Rafiq:</b> Study of nitrogen release behaviors on germination and growth of local wheat ( <i>Triticum aestivum</i> L)
Regilote Faik	APSECC-2022-OP-22: Role of abscisic acid in seed germination and morpho-biochemical attributes of rice seedlings
14:40-14:55	under harmful effects of saline stress
	APSECC-2022-OP-23: A9: Role of hydroxyl benzoic acid foliar spray on amelioration of mercuric chloride tolerance
14:55-15:10	in two varieties of Abelmoschus esculentus L.
12152 32 32	APSECC-2022-OP-24: Modulation in mineral nutrients and yield attributes of sunflower (Helianthus annuus L.) at
15:10-15:25	various growth stages by foliar-applied triacontanol under saline regimes
15:25-15:40	APSECC-2022-OP-25: Physio-biochemical responses of zinc biofortitied and non-biofortified wheat ( <i>Triticum aestivum L.</i> ) varieties to aerial application of ascorbic acid and α-tocopherol under salinity stress
13.23-13.40	APSECC-2022-OP-26: Combined effect of light emitting diodes and zinc oxide nanoparticles on growth and nutritional
15:40-15:55	value of chickpea sprouts
15:55-16:15	TEA/PRAYER BREAK
	Session 5 (Institute of Industrial Biotechnology, Conference Room)
	Plant Biochemistry, Biotechnology and Bioinformatics
	Chair: Prof. Dr. Hamid Mukhtar Co-Chair: Dr. Asad ur Rehman
16:15-16:30	APSECC-2022-OP-51: Hemp—A nature's gift for human wellbeing
16:30-16:45	APSECC-2022-OF-52: Quality characteristics of cookies produced through composite flours of wheat and mushroom
20100 20110	APSECC-2022-OP-53: Immobilization of Aspergillus oryzae tyrosine hydroxylase on ZnO nanocrystals for improved
16:45-17:00	stability and catalytic efficiency towards L-dopa production
CONTROL TO THE STATE OF THE STA	APSECC-2022-OP-54: Strong cation exchange chromatography based bioactivity of cationic peptides from Solanum
17:00-17:15	lycopersicum (tomato) under saline stress
17.15 17.20	APSECC-2022-OP-55: Physical adsorption of <i>Bacillus licheniformis</i> alginate lyase on silica-gel matrices for stability
17:15-17:30	in algino-oligosaccharides synthesis  Session 6 (Botany Junior Lecture Theatre)
	Plant Taxonomy and Ethnobotany/ Environmental Applied Botany
	Chair: Prof. Dr. Zaheer ud Din Khan
	Co-Chair: Dr. Uzma Hanif
	APSECC-2022-OP-06: Ethnobotanical studies, phytochemical investigation and antimicrobial efficacy of selected
16:15-16:30	medicinal plants of family Zygophylaceae, District Gilgit.
16 20 16 15	APSECC-2022-OP-07: Ethnobotanical studies on the wild flora of Tehsil Taunsa Sharif, Dera Ghazi Khan, Punjab,
16:30-16:45	Pakistan  ABSECC 2022 OR 12: Remote consing for early detection of investige energies in protected errors of Polyistan
16:45-17:00	APSECC-2022-OP-13: Remote sensing for early detection of invasive species in protected areas of Pakistan  APSECC-2022-OP-14: Solanum Viarum Dunal, a new invasive plant in Pakistan, and assessment of future range
17:00-17:15	expansion through species distribution modeling
17.00-17.13	expansion arrough species distribution moderning

	APSECC-2022-OP-15: Estimation of plant biodiversity and indicator species for biomonitoring of leather industrial
17:15-17:30	polluted zone of Sialkot, Pakistan
	Session 7 (SDSC Conference Room)
	Environmental Applied Botany
	Chair: Prof. Dr. Faiza Sharif
	Co-Chair: Dr. Muhammad Farahan
	APSECC-2022-OP-16: Optimization, regeneration and application of plant growth promoting bacteria (PGPBs) on
16:15-16:30	sugarcane cell lines (Saccharum spp. hybrid)
	APSECC-2022-OP-17: Phyto-mediated synthesis of zinc oxide nanoparticles using Nigella sativa L. extract and
16:30-16:45	evaluation of its antioxidant and antibacterial potential
	APSECC-2022-OP-18: Equilibrium kinetics and thermodynamic studies on biosorption of heavy metals by metal
16:45-17:00	resistant strains of Trichoderma isolated from tannery solid waste
	APSECC-2022-OP-19: Amelioration of harmful effects of chromium (Cr) on growth, yield and some physiological
17:00-17:15	parameters of tomato (Solanum lycopersicum L. cv. Veloz) using locally isolated chromium tolerant bacteria
17:15-17:30	APSECC-2022-OP-20: Characterization and agronomic efficacy of N-rich biochar derived from waste chicken feathers
	Session 8 (Physics Seminar Room)
	Plant Physiology
	Chair: Prof. Dr. Rana Abrar Hussain
2	Co-Chair: Dr. Umer Farooq Awan
	APSECC-2022-OP-27: Combine effects of different concentration of Cd and Cr on physiology and phytochemicals of
16:15-16:30	wheat (Triticum aestivum L.)
16:30-16:45	APSECC-2022-OP-28: Screening zinc transport efficiency in historical and elite wheat germplasms of Pakistan
	APSECC-2022-OP-29: Iron sulfate (FeSO <sub>4)</sub> improved physiological attributes and antioxidant capacity by reducing
16:45-17:00	oxidative stress of different <i>Oryza sativa</i> L. cultivars in alkaline soil
	APSECC-2022-OP-30: Salt stress mitigation using Ascophylum nodosum extract on tuberization in Solanum tuberosum
17:00-17:15	L.
17:15-17:30	APSECC-2022-OP-31: Intraspecific leaf trait variations in Himalayan shrub Rubus ellipticus L. along soil gradient
19:00	GALA DINNER (THE OVAL, GCU)

## DAY 2 Institute of Botany, University of the Punjab, Lahore

	NA DAY OF COOK OF A SAME AS A SAME AS
	PLENARY SESSION (Botany Auditorium)
	Chair: Prof. Dr. Razi Abbas Shamsi
0.00.0.50	Co-Chair: Prof. Dr. Faheem Aftab
9:30-9:50	<b>Prof. Dr. Francis Brearley:</b> Asian Forest Responses to Soil, Disturbance and Climate Change Revealed by Long-
0.50.40.50	Term Monitoring
9:50-10:20	Prof. Dr. Javed Iqbal: Can Agricultural Biotechnology mitigate climate change?
10:20-10:40	Prof. Dr. Manzoor Somro: Climate Change Education
10:40-11:00	TEA BREAK/DISPLAY OF POSTERS
	Session 9 (Botany Auditorium)
	Mycology & Plant Pathology
	Chair: Prof. Dr. Arshad Javed
44 00 44 20	Co-Chair: Prof. Dr. Amina Shoaib
11:00-11:20	Prof. Dr. Khan Bahadur Marwat: Climate Change, Biodiversity and Food Security from Global Perspective
Keynote Talk	APPEC CARROLL AND A CONTROLL AND A C
11:20-11:35	APSECC-2022-OP-32: Asterophora lycoperdoides (Bull ex. Merat) Ditmar ex Fr., a new generic record of gilled
	fungi from sub-Himalayan forests of Pakistan
11:35-11:50	APSECC-2022-OP-33: Epidemiological studies of bacterial leaf streak of wheat caused by <i>Xanthomonas translucens</i>
11 50 12 05	pv. undulosa and its management through synthetic chemicals and phyto-extracts
11:50-12:05	APSECC-2022-OP-34: Screening of oil seed cakes against root rot pathogens ( <i>in-vivo</i> ) by drenching method
12:05-12:20	APSECC-2022-OP-35: Comparison of foliar microscopic, antimicrobial and molecular characterization of
10.00.10.05	Geminivirus infected and healthy <i>Hibiscus rosa sinensis</i> L.
12:20-12:35	APSECC-2022-OP-36: Amanita ahmadii and Amanita flavipes: An Imperative Source of Some Secondary
10.05.10.00	Metabolites, Curative Antimicrobial and Anthelmintic Agents
12:35-13:00	Display of Posters
	Session 10 (Room G-9)
	Agriculture, Horticulture
	Chair: Prof. Dr. Tehmina Anjum
11:00-11:20	Co-Chair: Dr. Mubashira Munir  Prof. Dr. Siraj ud Din: Assessment of the Conservation Status of Androsace ojhorensis Y. Nasir: A Critically
Keynote Talk	Endangered Stenochorous Endemic Species in Chitral, Hindukush Range, Pakistan
11:20-11:35	APSECC-2022-OP-59: Development of organic compost from solid waste and its application in vegetables
11.20-11.33	production
11:35-11:50	APSECC-2022-OP-60: Temperature variations and excessive pesticides on crops leads to loss in agricultural yield
11.55-11.50	and soil resources
11:50-12:05	APSECC-2022-OP-61: Use of co-composted biochar to improve soil fertility and crop productivity
12:05-12:20	APSECC-2022-OP-62: Comparative analysis of graft incompatibility potential of intraspecific and interspecific
12.03-12.20	grafts of solanaceous plants
12:20-12:35	APSECC-2022-OP-63: Riboflavin (Vitamin B <sub>2</sub> ) priming modulates changes in growth, physiological and
12.20 12.55	biochemical traits of maize (Zea mays L.) under salt stress
12:35-13:00	Display of Posters
12100 10100	Session 11 (G-10)
	Plant Breeding & Genetics
	Chair: Prof. Dr. Shahida Hassnain
	Co-Chair: Prof. Dr. Anjum Nasim Sabri
11:00-11:20	<b>Dr. Hamayun Shaheen:</b> Spatial Distribution, Community Structure and Conservation of <i>Taxus wallichiana Zucc.</i> in
Keynote Talk	Azad Jammu and Kashmir
11:20-11:35	APSECC-2022-OP-64: Role of plant based liquid organic fertilizer in improving salinity tolerance of Abelmoschus
	esculentus (L.) Moench
11:35-11:50	APSECC-2022-OP-65: Selecting an appropriate variety of an apricot (Prunus armeniaca L.) based on phenology
	analysis from different habitats in the mountains of Gilgit Baltistan, Pakistan
11:50-12:05	APSECC-2022-OP-66: DNA barcoding and phylogenetics of endemic species of genus <i>Dicliptera</i> from the Western
	Himalayas
12:05-12:20	APSECC-2022-OP-67: Evaluation of apricot fruit fly infestation and management using botanical pesticides
12:20-12:35	APSECC-2022-OP-68: Grapevine Geminivirus A effect on taxonomic characters and biological activities of Vitis
	vinifera L. leaves

12:35-13:00	Display of Posters
12:00 15:00	Session 12
	Plant Biochemistry, Biotechnology & Bioinformatics/ Mycology & Plant Pathology
	Chair: Prof. Dr. Naeem Rashid
	Co-Chair: Dr. Atif Kamran
11:00-11:20	Prof. Dr. M. Ashraf Jahania: Micelles: Soap Industry & Amp; Drug Delivery
Keynote Talk	
11:20-11:35	APSECC-2022-OP-56: Enhanced production of Lovastatin by A. tarreus through prevailed phosphorylated Ser636
	of MAT domain: In silico analysis
11:35-11:50	APSECC-2022-OP-57: Phosphate solubilizing bacteria: isolation, screening and optimization
11:50-12:05	APSECC-2022-OP-58: Statistical optimizations for biosynthesis of L-phenyacetylcarbinol (L-PAC) from <i>Pichia</i>
	cecembensis and stability studies of it's pyruvate decarboxylase (PDC)
12:05-12:20	APSECC-2022-OP-37: Comprehensive study of sudden decline disease of date palm ( <i>Phoenix dactylifera</i> L.) in
12:20 12:25	Pakistan
12:20-12:35	APSECC-2022-OP-38: Ganoderma adspersum and Ganoderma applanatum from Pakistan
12:35-13:00 13:00-14:00	Display of Posters  Lunch/Prayer Break
13.00-14.00	Session 13 (Botany Auditorium)
	Mycology & Plant Pathology
	Chair: Prof. Dr. Najam ul Sehar Afshan
	Co-Chair: Dr. Abdul Rehman Khan Niazi
14:00-14:20	Prof. Dr. Hammad Majeed: Importance of Plant Material for Circular Economy to Reduce the Impact of Climate
Keynote Talk	Change
14:20-14:35	APSECC-2022-OP-39: Amanita flavipes: A promising mycobiont for mitigating the effects of climate change
14:35-14:50	APSECC-2022-OP-40: Isolation and identification of fungi associated with spoilt fruits vended in markets of
	Chichawatni
14:50-15:05	APSECC-2022-OP-41: Morphological and molecular characterization of <i>Uromyces</i> species from Khyber
Favano avanta per ya wasa	Pakhtunkhwa, Pakistan
15:05-15:20	APSECC-2022-OP-42: New records of <i>Cladonia</i> species (Cladoniacea, Lecanorales) from Pakistan
15:20-15:35	APSECC-2022-OP-43: Noteworthy reports of some mushrooms of Tehsil Noorpur Thal
	Session 14 (Room G-9)
	Phycology and Marine Botany/ Plant Breeding & Genetics Chair: Prof. Dr. Ghazala Yasmin Butt
	Co-Chair: Dr. Nousheen Yousaf
14:00-14:20	Prof. Dr. Mushtaq Ahmed: Sustainable Use of Plant Biodiversity for food, Health and Energy Security in Pakistan
Keynote Talk	Tron Driving rame at Susanianto Cost of Finance Bloom rotoky for 100 a, Frontin and Bloomy in Fantosia
14:20-14:35	APSECC-2022-OP-69: Line × tester analysis for yield and its attributed traits in upland cotton (Gossypium hirsutum
	L.)
14:35-14:50	APSECC-2022-OP-70: New records of Phormidiaceae from Kallar Kahar Lake Pakistan
14:50-15:05	APSECC-2022-OP-71: Combine effect of salinity and flooding stress on growth and ecophysiology of <i>Phragmites</i>
	karka
15:05-15:20	APSECC-2022-OP-72: Heavy metal pollution and climate change in Phytoplankton from marine coastal area
15:20-15:35	APSECC-2022-OP-73: Protective role of marine macro algae in drug induced nephrotoxicity
	Session 15 (Room G-10)
	Plant Ecology
	Chair: Prof. Dr. Shakil Ahmed
14:00-14:20	Co-Chair: Dr. Suhaib Muhammad  Prof. Dr. Sher Wali Khan: Assessment of Alpine Specific Genera and Species of Karakoram Range, Gilgit-
Kevnote Talk	Baltistan, Pakistan
14:20-14:35	APSECC-2022-OP-79: In site diversification and multiple migrations: the formation of Central Asian dry land biome
11120 11100	implied by the historical biogeography of the IRLC Legumes
14:35-14:50	APSECC-2022-OP-80: Contribution of non-timber forest products to the local economy "A case study of tropical
	dry deciduous forests of Pakistan"
14:50-15:05	APSECC-2022-OP-81: Indicators woody species analysis along with soil gradient of the Kirthar Mountains Range
	Sindh, Pakistan
15:05-15:20	APSECC-2022-OP-82: Invasive species and its associated flora in the current scenario of climate shift in southern
	districts of Azad Kashmir

Session 16 (Room G-12)  Medicinal Plant and Impact on COVID Treatment/ Plant Microbe Interaction  Chair: Prof. Dr. Samian Mehnaz  Co-Chair: Dr. Abdul Razzaq  14:00-14:20  Keynote Talk  14:20-14:35  APSECC-2022-OP-74: Investigations of adultrations in some powders of medicinal plants used for the treatment of the control of the property of the prope	
Medicinal Plant and Impact on COVID Treatment/ Plant Microbe Interaction Chair: Prof. Dr. Samian Mehnaz Co-Chair: Dr. Abdul Razzaq  14:00-14:20 Keynote Talk  14:20-14:35  APSECC-2022-OP-74: Investigations of adultrations in some powders of medicinal plants used for the treatment.	
Chair: Prof. Dr. Samian Mehnaz Co-Chair: Dr. Abdul Razzaq  14:00-14:20 Keynote Talk  14:20-14:35  APSECC-2022-OP-74: Investigations of adultrations in some powders of medicinal plants used for the treatment.	
14:00-14:20 Keynote Talk 14:20-14:35  Prof. Dr. Waheed Murad: Multiple Health Benefits of Curcumin and its Therapeutic Potential APSECC-2022-OP-74: Investigations of adultrations in some powders of medicinal plants used for the treatment.	
14:00-14:20 Keynote Talk 14:20-14:35  Prof. Dr. Waheed Murad: Multiple Health Benefits of Curcumin and its Therapeutic Potential APSECC-2022-OP-74: Investigations of adultrations in some powders of medicinal plants used for the treatment.	
14:20-14:35 APSECC-2022-OP-74: Investigations of adultrations in some powders of medicinal plants used for the treatment	
COVID-19	ent of
14:35-14:50 APSECC-2022-OP-75: <i>Mentha based</i> Cerium oxide nanoparticles application in Diabetes therapeutics	
14:50-15:05 APSECC-2022-OP-76: Ameliorate adzuki beans production by eradicating root deterioration fungi using med	icinal
plants	100000000000000000000000000000000000000
15:05-15:20 APSECC-2022-OP-77: Consortium of potasium solubilizing bacteria improves growth and yield of soybean	
15:20-15:35 APSECC-2022-OP-78: The Microphenotyping system: A novel method for screening drought tolerant plant-gr	rowth
promoting Rhizobacteria	
15:35-16:00 TEA/Poster Session/Prayer Break	
Session 17 (Botany Auditorium)	
Plant Ecology/Climate Change/ Environmental Applied Botany	
Chair: Prof. Dr. Firdaus e Bareen	
Co-Chair: Dr. Aisha Nazir	
16:00-16:15 APSECC-2022-OP-84: Ecological assessment of Air Pollution Tolerance Index (APTI), Heavy Metal Accumul	
Index (MAI) and Soil Pollution Index (SPI) of dominant deciduous plants of an urban ecosystem (Lahore), Pak	
16:15-16:30 APSECC-2022-OP-85: Ecological studies of Senegalia modesta and Olea europaea subsp. cuspidata along elev	vation
gradient in the Punjab region	
16:30-16:45 APSECC-2022-OP-86: Documentation and proximate analysis of wild vegetables consumed by the people of F	Hajira
in Azad Jammu and Kashmir, Pakistan	
16:45-17:00 APSECC-2022-OP-91: Study of impact of climate change on phenology and yield of wheat varieties cultivate	ted in
district Bhimber of Azad Jammu and Kashmir, Pakistan and future adaptive measures	
17:00-17:15 APSECC-2022-OP-92: Geostatistical analysis of spatial distribution of Apricot Shot Hole disease, climate scen	narios
and control through trunk injection delivery system in North Part of Pakistan	
17:15-17:30 APSECC-2022-OP-21: Morpho-anatomical response of some Carex L. species to elevation gradient in the	pine
forest region	
Session 18 (Room G-9)	
Palynology/Mycology and Plant Pathology	
Chair: Prof. Dr. Kausar Malik	
Co-Chair: Dr. Farhat Rass Masood	
16:00-16:15 APSECC-2022-OP-87: Palynomorphic distribution of Pan Sandstone and Korara Shale Shah Noorani Baluchistan	
16:15-16:30 APSECC-2022-OP-88: Palynomorphic characterization of ethnobotanically important plants of Tehsil Hafizal	oad
16:30-16:45 APSECC-2022-OP-89: Palynology of some carbonaceous shales, Tharparkar, Sindh, Pakistan	
16:45-17:00 APSECC-2022-OP-90: Comparative palynological analysis of some selected members of the Tribe Trife	foleae
(Fabaceae) from Lahore, Pakistan	
17:00-17:15 APSECC-2022-OP-44: Occurrence of Erysiphe friesii var. dahurica. on Purple Buckthorn from Pakistan	
17:15-17:30 APSECC-2022-OP-45: Green synthesis of copper nanoparticles from Allium sativum extract controls the	post-
harvest Stem End Rot Disease of mangoes	(400)

## Day 3 Institute of Botany, University of the Punjab, Lahore

9:30-10:30	General Body Meeting (Auditorium Institute of Botany, University of the Punjab, Lahore)
10:30-11:30	Concluding Ceremony
	<ul> <li>Recitation of Holy Quran</li> <li>Conference Report by the General Secretary</li> <li>Address by Guest of Honor</li> <li>Address by Chief Guest</li> <li>Vote of Thanks by the Director, Institute of Botany, University of the Punjab Lahore.</li> <li>Distribution of Souvenirs</li> </ul>
11:30-12:00	TEA
14:00	WALLED CITY TOUR