

TECHNICAL PROGRAMME

TWO DAYS NATIONAL CONFERENCE ON

BENEFICIAL MICROBES & SUSTAINABLE CROP PRODUCTION

19th-20th Feb. 2020



Chief Organizer

Dr. Amanullah

Associate Professor of Agronomy

Faculty of Crop Production
Sciences



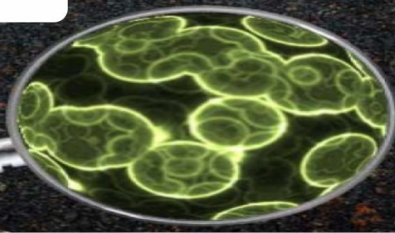
AMERICAN
SOCIETY FOR
MICROBIOLOGY

Organized By

Department of Agronomy

The University of Agriculture
Peshawar - Pakistan

AMERICAN SOCIETY FOR
MICROBIOLOGY



BENEFICIAL MICROBES & SUSTAINABLE CROP PRODUCTION

19-20 February, 2020

DEPARTMENT OF AGRONOMY, THE UNIVERSITY OF AGRICULTURE, PESHAWAR

TIME	OPENING CEREMONY IN MAIN AUDITORIUM ON 19-02-2020 (DAY ONE)	NAMES
800-900	Registration	Registration Team
900-930	Guest to be Seated/ Slides Show	Proctors/AO/Organizers
930-935	Recitation from the Holy Quran	Dr. Zahid Hussain
935-940	National Anthem	Mr. Ameen/Mr. Pazeer
940-955	Conference Objectives by the Chief Organizer	Dr. Amanullah
955-1015	Address by the Vice Chancellor (Chief Guest)	Prof. Dr. Jehan Bakht
	Plenary Session (Keynote Speaker) (Day One)	NAMES
1015-1100	National microbial culture collection activities of PARC, Pakistan and the description of several novel species of bacteria from Pakistani ecology	Dr. Ifhtikhar Ahmed NARC, Islamabad, Pakistan
1100-1110	Vote of Thanks, Dean Faculty of Crop Production Sciences	Dr. Farhatullah
1110-1120	Shields Distribution	Vice Chancellor
1120-1130	Group Photo	Front of Main Hall

1130-1200	REFRESHMENT			AUTA HALL
	CHAIR: PROF. Dr. Farhatullah, Dean FCPS CO-CHAIR: Prof. Dr. Hassan Sher, Dean		CHAIR: PROF. Dr. Muhammad Akmal, Chairman CO-CHAIR: Dr. Muhammad Azim Khan, Weed Science	
	TECHNICAL SESSION-1 (DAY ONE)		TECHNICAL SESSION-1 (DAY ONE)	
TIME	VCR (LIBRARY)	Speakers	AGRONOMY THEATER	Speakers
1200-1215	Response of soil microbial biodiversity to environmental stresses and its implications in sustainable agriculture	Dr. Noshin Ilyas Arid Agriculture University	Comparative antibiotic resistance profile of acinetobacter spp. Isolated from fish, chicken and beef meat	Uzma Ayaz University of Poonch Rawalakot Azad Jammu & Kashmir
1215-1230	Role of rhizobium strains for sustainable crop production	Shazia NARC	Application of beneficial microbes in sustainable fish production in intensified aquaculture through biofloc technology (bft): case studies of tilapia fish raised under bft tanks at bismillah fish farm faisalabad, pakistan	M. Shah Sawar University of Peshawar
1230-1245	Microbiome a potential barrier against various health disorders	Muhammad Suhail Ibrahim Arid Agriculture University	Characterization of local isolates of clostridium perfringens type d from sheep in district peshawar	Saqib Nawaz UAP
1245-1300	Vermiwash: physiochemical and microbiological approach as ecofriendly soil conditioner	Mukhtiar Ali University of Veterinary & Animal Sciences Lahore	Prevailing status of brucellosis in cattle and human population in district swat	Salman Khan UAP

1300-1315	Economical and sustainable utilization of different agro-industrial wastes for production of bacterial maltase	Muhammad Asif Nawaz SBBU SHERINGAL	Prevalence of clostridium perfringens in calves in district peshawar	Saima Khan UAP
1315-1330	Microbial interaction with edible and non-edible plants and its role in phytoremediation of metal contaminated soils	Rizwan Ahmad Land Resources Research Institute, Islamabad	Beta-lactamase producing escherichia coli isolates in local poultry meat of faisalabad, pakistan	Zia ullah UAF
1330-1400	REFRESHMENT			AUTA HALL
CHAIR: Prof. DR. Saif Ullah, Dean FCPrS CO-CHAIR: Prof. Dr. Iqbal Munir, Director IBGE			CHAIR: Prof. DR. M. Jamal Khan, Chairman SES CO-CHAIR: Dr. M. Sajid, Horticulture	
TECHNICAL SESSION-2 (DAY ONE)			TECHNICAL SESSION-2 (DAY ONE)	
TIME	VCR (LIBRARY)	Speakers	AGRONOMY THEATER	Speakers
1400-1415	Beneficial Microbes in Agriculture	Dr. M. Ashfaq Anjum Kala Shah Kaku Lahore	Echinacea purpurea (cone flower): an immunomodulatory agent in newcastle disease infected broiler chicks	Waqas Ahmad UAF
1445-1500	Identification and characterization of rhizospheric bacteria from wheat fields under different crop rotation system for the potential biofertilizers, bioinoculants and industrially important enzymes production	Aqib Iqbal AUP	GC-MS analysis and anti-cancer activity of salvadora oloid root extracts from Southern Khyber Pakhtunkhwa Pakistan	Rabia Nousin Kohat University of Science and Technology, Kohat
1415-1430	Molecular and biochemical characterization of bacterial isolates from rhizospheric soil for potassium and phosphorus solubilization	Mian Afaq Ahmad UAP	Isolation of entomopathogenic nematodes from malakand division and their efficacy on the management of root knot nematode (meloidogyne spp.) in tomato	Fazli Kabir UAP

1430-1445	Population genetics and genomics tools for deciphering diversity and divergence in microorganisms – both beneficial and pathogenic species	Sajid Ali UAP	Effect of beneficial microbes, humic acid and farmyard manure on yield and yield components of wheat	Nawab Ali AUP
1445-1500	Application of microorganism for weeds control	Aman Khan UAP	Pehonolgy and morphological traits of wheat crop as affected by application of humic acid, farmyard manure and beneficial microbes	Muhammad Hamid UAP
1500-1515	Soil application of trichoderma and peach (prunus persica l.) Residues possesses biocontrol potential for weeds and enhances growth and profitability of soybean (glycine max	IMRAN UAP	Effect of rhizobium inoculation and phosphorous levels on yield of mungbean	Maleeha Mehboob UAP
1515-1530	Inoculation with pgpb proteobacteria bukholaderia phytofirmans mitigates negative consequences of drought in wheat (triticum aestivum l.) By improving physiological and biochemical aspects	Malik Ghulam Asghar Bahauddin Zakariya University Multan	Harnessing the signaling effects of plant cytokinin two-component systems into sustainable crop production	Dr. Muhammad Naseem Zayed University Abu Dhabi
1530-1545	Frist report of the phytopathogens associated with peach leaf curl disease in pakistan	Fazal Akbar University of Swat	The role of zinc solubilizing bacteria in biofortification of wheat	Shah khalid UAP
1545-1600	Nodulation and growth response of mash bean (vigna mungo l.) To rhizobium inoculation and phosphorus under controlled condition in skardu gilgit baltistan	Sajid Hussain Sindh Agriculture University Tandojam	Beneficial microbes in field crops production: symbiosis for sustainable agriculture in changing climate	Dr. Amanullah UAP

1600-1615	Studying the physiochemical analysis and quality parameters of alligator weed (<i>alternanthera philoxeroides</i> mart.) compost under various conditions	Asif Tanveer UAF	In vitro and in planta nematocidal activity of <i>aspergillus</i> spp. (<i>trichocomaceae</i>) against the southern root knot nematode, <i>meloidogyne incognita</i> in tomato (<i>solanum lycopersicum</i> L.)	Shamsulhaq UAP
1615-1630	Diversity in leaf and shoot morphological characteristics among various grape (<i>vitis vinifera</i> L.) cultivars in agro-climatic region of bajaur, pakistan	Farman Ullah Quaid-i-Azam University Islamabad	Allelopathic effect of sunflower extract on weeds suppression and productivity of wheat	Faisal Khan UAP
1630-1645	Potential roles of exogenous application of glutathione in inducing tolerance to arsenic or mercury stress in wheat (<i>triticum aestivum</i> L.)	Anam Khattak Kohat University of Science and Technology	The Influence of Bioaab application as a bio-fertilizer with different N sources on the Yield and nutrient uptake of wheat	Imran Azeem UAP
1645-1700	Microbes role in the economic development	Dr. Naushad Khan UAP	Effect of different plants aqueous extract on seed germination percentage of wheat seeds	Neelam Affroz Kohat University of Science & Technology

REFRESHMENT AUTA HALL & CLOSING OF DAY ONE

20-02-2020 (DAY TWO)

CHAIR: PROF. Dr. Abdur Rab, Chairman Horticulture CO-CHAIR: Prof. Dr. Khalid Nawab, Chairman Extension		CHAIR: PROF. Dr. Amanullah Jan, Agronomy CO-CHAIR: Prof. Dr. M. Arif, Agronomy		
TECHNICAL SESSION-1 (DAY TWO)		TECHNICAL SESSION-1 (DAY TWO)		
TIME	VCR (LIBRARY)	Speakers	AGRONOMY THEATER	Speakers
830-845	Appraisal of phosphorus competences and soil phosphorus in soybean vs maize crops under the combination of peach (prunus persica l) carbon sources, beneficial microbes and inorganic phosphorus	Imran UAP	Effects of corona virus on the world community	Dr.Naushad Khan UAP
845-900	Lower himalayan lignocellulolytic microbial consortia and their use for ethanol production from locally accumulated solid waste	Faheem Jadoon COMSATS, Islamabad	Combined effect of plant derived smoke solution and silicon nanoparticles on physiological and biochemical parameters of pea plant (pisum setivum l.)	Abdul Momin Kohat University of Science & Technology Kohat

900-915	Effect of humic acid coated phosphatic fertilizers inoculated with arbuscular mycorrhizal fungi on yield and phosphorus uptake of wheat crop	Muhammad Sharif UAP	Comparative effect of smoke solution and pesticide on growth of maize	Saja Ullah Kohat University of Science and Technology
915-930	Biocontrol activities of saccharothrix algeriensis nr1 b-24137 towards fusarium oxysporum a causative agent of cotton wilt disease	Rizwan Asif UAF	Role of molybdenum, bacterium inoculation methods and chickpea varieties on nodulation efficiency under irrigated and rainfed conditions	Asim Muhammad UAP
930-945	Halotolerant rhizobacteria pseudomonas pseudoalcaligenes and bacillus subtilis mediate systemic tolerance in soybean (glycine max l.) Against salinity stress	Humaira Yasmin COMSATS, Islamabad	Prevalence of clostridium perfringens in calves in district peshawar	Ms. Saima Department of Microbiology Kohat University of Science and Technology
945-1000	Moderation of sodium chloride induced damages by the application of plant growth promoting rhizobacteria and biochar in cicer arietinum l.	Athar Javaid University of Peshawar	Assessment of pesticides toxicity in duckweed and its alleviation by exogenous application of salicylic acid	Rakhshanda Hina Kohat University of Science and Technology

1000-1015	Soil microbiota produced flavor and fragrant compounds	Nabeela Daud COMSATS, Islamabad	Invitro effects of silver nano particle and antibiotics on plant pathogenic bacteria (erwinia carotovora) and fungi (fusarium solani)	Ifra siddique UAP
1015-1025	Isolation, characterization of soil microbes and their effects on yield and phosphorus uptake of crop	Sadiq Hussain AUP	Integration of biochar, beneficial microbes and organic sources for improving maize yield and soil fertility	Talha Jan UAP
1025-1035	Effect of mycorrhiza with different phosphorus levels on productivity and root infection intensity of wheat crop	Jawad Ul Haq UAP	Inoculation of nitrogen-fixing bacteria in conjugation with organic and inorganic fertilizers induce changes in growth, nitrogen assimilation and productivity of wheat	Imadud Din UAP
1035-1045	Effect of biochar and plant growth promoting rhizobacteria on agronomic, physiological and biochemical attributes of vicia faba l. Under induced drought stress	Muhammad Nafees University of Peshawar	Effect of phosphorus levels and phosphate solubilizing bacteria (psb) on growth and seed production in coriander	Faryal UAP
1045-1100	Drought stress alleviation by the application of biochar and Plant Growth Promoting Rhizobacteria in Brassica napus L.	Gul-Lalay University of Peshawar	Effect of phosphorus with and without phosphate solubilizing bacteria on growth and yield of tomato	Saeed UAP

1100-1130	REFRESHMENT & TEA BEARK		AUTA HALL	
	CHAIR: PROF. DR. Said Wahab, Dean Human Nutrition CO-CHAIR: Prof. Dr. Amir Zaman Khan, Agronomy		CHAIR: PROF. DR. Nazir Ahmad, Dean Animal H. & DVM CO-CHAIR: Prof. Dr. Shahid Sattar, Plant Protection	
	TECHNICAL SESSION-2 (DAY TWO)		TECHNICAL SESSION-2 (DAY TWO)	
TIME	VCR (LIBRARY)	Speakers	AGRONOMY THEATER	Speakers
1130-1145	Influence of seasonal disparities on polyphenolics content and antimicrobial activity of Berberis lycium R.	Zainab Bibi COMSATS, Abbottabad Campus	Effect of farm yard manure with and without biozote on yield and nutrients uptake by wheat crop	Abrar Ahmad UAP
1145-1200	Effect of organic p fertilization, bacterial consortia and their grazer nematodes application on plant p uptake and soil p pools	Saba Ahmed COMSATS, Abbottabad Campus	Response of Fine Rice (Oryza sativa L.) to various Planting Dates and Seedling Densities under Arid Environment of Dera Ismail Khan	M. Azam, Ghazanfar ullah Department of Agronomy, Gomal University, Pakistan
1200-1215	Co-application of mycorrhizae with beneficial microbes enhanced the crop productivity under environmental stressful conditions	Iqra Kanwal UAF	Cigarette butts decomposition and microbial remediation to alleviate the heavy metal toxicity in soil	Akhtar Iqbal COMSATS, Islamabad

1215-1230	Effectiveness of bacterial consortium and sorghum extract on growth and yield attributes of wheat	Taqi Raza NARC	Plant-microbe interaction promotes growth and tolerance in brassica napus under cadmium stress	Hala Rajab UAP
1230-1245	Assessing the nitrification enzyme activity across various soil ecosystems at abbotabad region	Tahir Zaman COMSATS University Islamabad	Biosynthesis and biological effects of zanthoxylum armatum dc fruit nanoparticles	Sumira Yasmin University of Peshawar
1245-1300	Sustainable Production of commercially important medicinal and aromatic plants in District Swat: A step toward sustainable resource conservation	Hassan Sher University of Swat	Biochemical evaluation of crude extract and its derived fractions obtained from different parts of fagonia indica, withania coagulance, mentha piperita and coriandrum sativum	Naila Hayat Kohat University of Science & Technology, Kohat
1300-1315	Phosphorus Solubilizing Bacteria (Psb) In Combination With Different Fertilizer Sources To Enhance Yield Performance Of Chickpea	Nawal Zafar Cereals and Pulses Section, Agronomic Research Institute, Faisalabad	Significance of Cytokinins-to-auxin interaction on shoot morphology and multiplication of Chenopodium ambrosoides.	Tour Jan Dr. Tour Jan Botany, University of Malakand Department of botany

REFRESHMENT AUTA HALL & CLOSING OF DAY TWO

CLOSING CEREMONY
BENEFICIAL MICROBES & SUSTAINABLE CROP PRODUCTION
20 February, 2020
DEPARTMENT OF AGRONOMY, THE UNIVERSITY OF AGRICULTURE,
PESHAWAR

Time	Activities	PERSON
	Stage Secretary	Dr. Inamullah/Dr. Hamida
2:30-2:35	Recitation from the Holy Quran	Dr. Zahid Hussain
2:35-2:45	Feedback of the participants	Two participants
2:45-2:55	Conclusion & Recommendations	Recommendation Committee, Prof. Dr. Farhatullah (Convener)
2:55-3:10	Vice Chancellor address	Prof. Dr. JehanBakht VC -UAP
3:10-3:30	Shields & Certificate Distribution	(VC, Dean FCPS, Chairman Agronomy) Facilitator: Mr. Shah Khalid, PhD Scholar
3:30-3:15	Vote of Thanks	Prof. Dr. Muhammad Akmal (Chairman Agronomy)

DEPARTURE OF GUESTS

Important Contacts: Dr. Amanullah (03339348849) Chief Orgaizer
 Dr. Inamullah (03459464319) for VCR (Library)
 Dr. Azim Khan (03339107658) for Accomodation (STRC & FFGH)

Dr. Asad Ali (03005705005) for food and refresehment
 Dr. Ahmad Khan (03339136792) for Agronomy Theater
 Mr.Shah Khalid (03469864692) for registration