

DR SHAHID AHMED

CONTACT

DIRECTOR /NATIONACOORDINATOR

{Plant Protection/Plant Sciences}
Plant Sciences Division
Pakistan Agricultural Research Council
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ACADEMIC QUALIFICATIONS

PhD (Plant Pathology)

Department of Plant Pathology
College of Plant Protection (CPP)
China Agriculture University, Beijing-China

Dissertation title: Screening of microbial biocontrol agents against cereal cyst nematode (*Heterodera avenae*)

CHINA

Sindh Agriculture University TandoJam

M.Phil / M.Sc. (Hons) Agriculture

Pakistan
1998-2000

Major Subjects studied were; Advanced Virology, Genetics of Plant pathogen, Plant Diseases Epidemiology, computer application in Crop Protection Research, Plant Diseases Management & Advanced Nematology
Thesis on, "Promising Control of root-knot nematode, *Meloidogyne javanica* (Treub) Chitwood on *Solanum Melongena* L."

Sindh Agriculture University TandoJam

Bachelor (Four Years)/MS (Hons) Agriculture

Pakistan
1993-1998

Major Subjects studied were; Agriculture Extension, Geology (Soil formation & Development), Agriculture Economics, Entomology, Bio-Chemistry, Plant Protection, Plant Pathology, Teaching Methods, Field Crop Production, Bacteriology, Farm Power Machinery, Statistics, Nematology, Virology, Ecology of Plant Pathogens, Mycology, Fungicides and their Application, Physiology of Fungi, Insect Transmission of Diseases.

Board of Intermediate and Secondary Education Sukkur

Higher School Certificate (HSC) Pre-Medical

Pakistan
1989-1991

Major Subjects studied were; Chemistry, Physics, Zoology, Botany

Board of Intermediate and Secondary Education Sukkur

Secondary School Certificate (HSC) Science

Pakistan
1989-1991

Major Subjects studied were; Mathematics, Chemistry, Physics, Biology

PROFESSIONAL EXPERIENCE

CURRENT JOB

DIRECTOR /NATIONACOORDINATOR

Plant Sciences Division
Pakistan Agricultural Research Council (PARC)

Islamabad, Pakistan
2018- todate

Project Planning, appraisal, formulation of Agriculture policy programmes and contribution of PARC strategic framework and supports the UNDG's 2030. Liaison international and national organizations in support of mutual cooperation in research and development in multiple fields within Asian regional partner countries, and intercontinental partners in innovative research cooperation. Leads, implements and reports council's management attentions to future risks patterns on food security. Organizing the national symposiums, conferences and workshops on community development. The major work related to strategic partnerships and advocacy, Coordination and collaboration, Management of Sciences Divisions offices network in Pakistan, Establishing the Governing Body relationship, Strategic planning and management, Resource generation and mobilization, Leadership and human resource management etc.

WORKING KNOWLEDGE

Knowledge of **English** is proficient, however limited knowledge of FAO official languages (**Arabic and Chinese**).

LEADERSHIP SKILLS

Communication, Partnering and advocating, Knowledge sharing and improvement, strategic thinking, Leading engaging and accommodating, target oriented and result focused etc

PREVIOUS JOB / DUTIES

Principal Scientific Officer / Associate Professor (SPS-10)

Crop Diseases Research Institute (CDRI)
Department of Plant & Environmental Protection (DPEP)
National Agricultural Research Center (NARC)
Pakistan Agricultural Research Council (PARC)

Islamabad, Pakistan
2017- 2023

Project planning, formulation and appraisal on Agriculture for sustainable development. Office Procedures and Practices, Scientific Writings and publications on Agriculture policies, research and development. International funding opportunities / project developments on different sectors related to climate change, environment, and sustainable agriculture development to address the UN Sustainable development goals (UNSDG's). International organizations includes Islamic Development Bank (IsDB), World Bank (World Vegetable), Food and Agriculture Organization (FAO), Intergovernmental Panel on Climate Change (IPCC), China Pakistan Economic Corridor (CPEC), International Plant Protection Convention (IPPC), Conventional o Biological Diversity (CBD), European Union Marie Sklodowska-Curie Actions (MSCA), European Framework Program (HORIZON) for Research & Innovation, The World Academy of Sciences (TWAS), Korea Program on International Agriculture (KOPIA), The Scientific and Technological Research Council of Turkey (TUBITAK), International Maize and Wheat improvement Center (CIMMYT), International Center for Agriculture Development in the Dry Areas (ICARDA), Pakistan Science Foundation (PSF) etc.

Senior Scientific Officer (SPS-09)

Crop Diseases Research Institute (CDRI)
Department of Plant & Environmental Protection (DPEP)
National Agricultural Research Center (NARC)
Pakistan Agricultural Research Council (PARC)
Diseases Diagnostic Services to Pakistan:

Islamabad, Pakistan
2011- 2017

Services provided to Plant Protection Department in quarantine pathogen, Potato cyst nematode (*Globodera rostochinensis*), that hinders the Pakistan Potato Crop Export in Year 2013-14. The diagnostics services build confidence of importer countries; Russia & Iran and restore the export agriculture trade of Pakistan.

Research on quarantine pathogens, Karnal Bunt of Wheat (*Tillitia indica*) with collaboration of Wheat Wide Crosses (WWC) and Crop Diseases Research Institute (CDRI). Biological control strategies and establishment of indigenous bio-control agent formulation for controlling different emerging crop diseases on cereals, fruits, fibers, vegetables and other economic cash crops of Pakistan in perspective of **Good Agricultural Practices (GAP)**, and technology transfer to the farmer field through farmer field school (FFS) approaches of agriculture extension.

Diseases Diagnostics Services : Potato cyst nematode (PCN) caused by soil-born pathogen (SBP) *Globodera rostochinensis*, potato fungal diseases caused by soil-born fungal pathogen (*Phytophthora infestans*), potato bacterial diseases caused by soil-born pathogen, *Streptomyces scabies* and viral diseases caused by Potato Virus X (PVX) and Potato Virus Y (PVY) in Pakistan and their Integrated Management, with the collaboration of RADP, ALP PARC.

Scientific Officer (BPS-17)

Crop Diseases Research Program (CDRP)
Institute of Plant & Environmental Protection (IPEP)
National Agricultural Research Center (NARC)
Pakistan Agricultural Research Council (PARC)

Islamabad, Pakistan
2008- 2011

Diseases Diagnostics Services to all over the country. Integrated Management of Root-knot nematode in Tomato and Okra. Collaboration with vegetable program and fodder program in research and development. Studies on plant genomics and biotechnology using vector *Agrobacterium tumefaciens* for gene transformation in department of Plant Genomic and Biotechnology, National Institute of Genomics and Agriculture Biotechnology (NIGAB), NARC.

Assistant Scientific Advisor (BPS-18)

Desk Officer
International Liaison/ Planning & Co-ordination
Ministry of Science & Technology
Government of Pakistan

Islamabad, Pakistan
2007-2008

Developing collaboration with International & National Policy making governing bodies of World in the field of Science & Technology. The main focus collaboration with UNESCO, ISESCO, SAARC, JICA, etc pertaining international seminars, training courses, scholarships, MoUs and other interstates and intrastate dialogues among the friendly countries in S&T. The major fields of collaboration in engineering subjects, energy innovations for renewable energies & technologies, emerging applied sciences, water research for sustainable development, alternate sources of energies etc.

Administrative matters related to the following organizations under the administrative control of Ministry of Science and Technology; as

Center for Applied and Molecular Biology (CAMB),
Council for Work and Housing Research (CWHR),
National Institute of Electronics (NIE),
National Institute of Oceanography (NIO),
National University of Science & Technology (NUST),
Pakistan Council for Science & Technology (PCST),
Pakistan Council for Research in Water Resources (PCRWR),
Pakistan Engineering Council (PEC),
Pakistan National Accreditation Council (PNAC),
Pakistan Science Foundation (PSF),
Pakistan Standards & Quality Control Authority (PSQCA),
Pakistan Technology Board (PTB),
STEDEC Technology Commercialization of Pakistan (Private) Limited.

Scientific Officer (BPS-17)

Crop Diseases Research Program (CDRP)
Email: s.ahmed@parc.gov.pk Phone: 92-51-90762412 (Off) Cell: 92-333-5688176

Islamabad, Pakistan
2003-2007

Institute of Plant & Environmental Protection (IPEP)
National Agricultural Research Center (NARC)
Pakistan Agricultural Research Council (PARC)
Ministry of Food, Agriculture & Live Stock (MINFAL)

The main focused research areas were Identification, isolation and management of Plant Parasitic Nematodes (Potato Cyst Nematode, Citrus Nematode, Rice-Wheat cropping system Nematode, Banana Nematode, Vegetables Nematode, Tobacco Nematode etc), National Integrated Program Nat-IPM (Education component) in which the development of curriculum on the indigenous knowledge/techniques used in local agriculture practices to control the endemic/epidemics of certain diseases/pathogens on field crops and to incorporate in the syllables of the Agriculture Colleges and University of National level. Diseases Diagnostics Services under which the field crop samples were received from all over the Pakistan, assessed in laboratory for the pathogen causing problem, and their management strategies. Management of Citrus nematode *Tylenchulus semipenetrans*, causing citrus decline in the Punjab and NWFP. The ecological survey for the identification the incidence and severity of cereal cyst nematode in Pakistan and their management strategies. Management of RKN (root-knot nematode) in Tomato and Okra vegetable and the race analysis of the *Meloidogyne sp.* responsible the hypertrophy and hyperplasia symptoms in all susceptible host crops.

Scientific Officer (BPS-17)

Karakoram Agricultural Research Institute for Northern Areas
(KARINA), Juglote Gilgit

Northern Areas, Pakistan
2001-2002

Pakistan Agricultural Research Council (PARC)

Ministry of Food, Agriculture & Live Stock (MINFAL)

Research & Development for the sustainable agriculture in remote valleys of Northern Areas districts including Chilas, Astore, Skardu, Gilgit, Ghizar, Hunza etc. Liaising with National and International Non-Government Organizations (NGO's) such as Agha Khan Rural Support Program (AKRSP), National Rural Support Program (NRSP), International Fund for Agriculture Development (IFAD), United Nations Development Program (UNDP), International Union for Conservation of Nature (IUCN), World Wide Fund for conservation of Nature (WWF), International Center for Mountain Development ICIMOD etc, for the community development in Northern Areas. The major areas of research & development were Live Stock management, Availability free seed of high yielding varieties of cereal (Wheat, Maize etc), Production of Diseases free healthy nurseries of Stone Fruits for the introduction of new orchards and availability of free access to the community for nursery. Introduction of Plastic Tunnel Technology for the growing of off season vegetables during the winter season. Improvement of Medicinal Plants management and their access in local markets. Availability and access of irrigation water for Sustainable Agriculture through community development approach. Introduction of Seabuck thorn for soil conservation and soil erosion, manufacturing of medicinal value added products (Jam, Oil, Syrup, Biscuits etc) from Seabuck thorn's fruit, seeds and leaves.

PERSONNEL DATA

Profile:	Married	Male	Pakistani
Languages:	English , Arabic, Urdu, Punjabi , Sindhi ,		
Date of Birth:	15 th March 1974		
CNIC:	45304-4968121-9		
Passport No:	NJ1156113		
Present Address:	Flat 1, Block 06/E, CAT-III, G-10/3, Islamabad, Pakistan.		
Permanent Address:	House No. II-B, 162, Khanzada Mohallah, P.O & District Naushahro Feroze, Sindh.		

PROJECTS DEVELOPED / COMPLETED

Projects Developed:

Preliminary studies on surveillance, monitoring and management of Potato cyst nematode PCN and establishing PCN free zones to agribusiness export restoration in Pakistan. **PAKISTAN-SPAIN ANNUAL BILATERAL CONSULTATION- JULY 2020.**

Email: s.ahmed@parc.gov.pk Phone: 92-51-90762412 (Off) Cell: 92-333-5688176

“Soil born pathogenic root nematodes of Banana (*Musa sp.*), their association with other biotic stresses causing wilt syndrome complex and their management strategies in Sindh Province Pakistan.” **Pakistan Science Foundation (PSF), Ministry of Science & Technology, Government of Pakistan. 2020. (Under Review)**

“Determination of soilborne agriculture quarantine regulated pest of potato crop “golden cyst nematode or potato cyst nematode (*Globodera spp.*)” Free zones in Pakistan.” **Science, Technology & Innovation (STI) Policy Research Initiative of PCST. Ministry of Science & Technology, Government of Pakistan. 2020**

“Agricultural Technology Cooperation through the Establishment of Korea Program on International Agriculture (KOPIA) Center in Pakistan” **(CDRI Component) 2019.**

“Prevalence and distribution of soil born cereal cyst nematode (*Heterodera spp.*) of cereal crops in Pakistan.” **Pakistan Science Foundation (PSF), Ministry of Science & Technology, Government of Pakistan. 2019**
Banana wilt (*Fusarium wilt*) complex with specific soil borne pathogenic nematode factors association and their management strategies in Sindh Province Pakistan. **Australian Center for International Agriculture Research (ACIAR) 2019**

“Plant quarantine regulated pest potato cyst nematode (*Globodera spp.*) PCN management and identification of PCN pest free zones in Punjab Province and Gilgit Baltistan Province.” **Pakistan Science Foundation (PSF), Ministry of Science & Technology, Government of Pakistan. 2019**

“Mitigating the emerging threat soilborn root-knot nematode *Meloidogyne graminicola* to the rice-wheat cereal cropping system in Pakistan.” **NATIONAL/REGIONAL PROPOSALS UNDER FAO-TURKEY PARTNERSHIP PROGRAMME 2018**

“Studies on Biotic Stresses Impact on Fruit Plant of Family *Rosaceae* (Apple, Pear, Loquat, Apricot, Peach, Plumes, Cherries, and Almond) and their integrated Management in Pakistan . **ALP Secretariat, PARC (CS063)**”.

“Management of *Fusarium* wilt of banana (Panama wilt) in Sindh.” (2.9 million) **(RADP –Secretariat, PARC 2014).**

Projects Completed:

“Preliminary and Management studies on Citrus Decline” **ALP Secretariat, PARC (2007).**

TRAININGS National (Pakistan)

1. "Orientation and Training of Newly Inducted Scientific Officers/Assistant Agri. Engineers in PARC System" held from 15th January to 24th February, 2001 at Agriculture Training Institute, National Agricultural Research Centre, Islamabad.
2. “ Training Course on Techniques for Scientific Writings” Training Institute National Agricultural Research Center, PARC December 23, 2003 to January 06, 2004.
3. “Office Procedure and Practices” part time training course at Sectorate Training Institute (STI) Establishment Division, Government of Pakistan Islamabad. March 29, 2004 to April 24 , 2004 at STI H-9, Islamabad.
4. “ Orientation Workshop for Professionals and Stakeholders of National IPM Project on October 28-30, 2004 at NARC, Islamabad.
5. “ Project Planning, Formulation and Appraisal” December 06, 2004 to December 10, 2004 at NARC, Islamabad.
6. “ Awareness Workshop for Familiarization of Teachers On Farmers Field School Approach & Training of Facilitators, February 23-25, Peshawar.
7. GRE & TOEFL Test Preparation Course, Funded By USDA (WPEP) & Implemented By CIMMYT, United States Educational Foundation in Pakistan. February 24- April 20, 2014.

International (Foreign)

1. Training course on, “Integrated Pest Management” 15th January To 31st March, 2012 at The Egyptian International Center for Agriculture (EICA), Ministry of Agriculture and Land Reclamation, Cairo, Egypt.

Skill Development on IPM, Diseases Forecasting, Environmental Impact Assessment, Pesticides resistance, compatibility, residues, hazards etc., IDM/ICM for diseases management tactics, Post harvest diseases management, Tissue culture, Biological control, Economic damage threshold, Rodents control, Weed control, Locust control, Stored insect pest control, Organic Agriculture; their regulation and registration, Plant nutrition management in organic agriculture, Plant protection under organic agriculture farming, Europe GAP (Good Agriculture Practices), Extension Services in ICN/IPM, Principal of agricultural extension, Role of subject matter specialist in IPM, Extension teaching methods to communicate IPM recommendations, Diffusion and adoption of IPM recommended practices, Extension programme planning in IPM.

2. PhD Training Funded by China Scholarship Council (CSC), Department of Plant Pathology, College of Plant Protection, China Agriculture University, Beijing P.R China. 2014-2018

On line Virtual Conferences / Workshiops/ Training Courses

2024:

Association of Applied Biologists. 6th Symposium of Potato Cyst Nematode Management 10-11 September 2024 Harper Adams University and Online. (Paper Presentation)

Teaching English South Asia. Engaging students using multimodal techniques. 5th September 2024. British council.

Online International Training Programme on Advancements in Agricultural and Food Engineering in India", (IIT-KGP), India, 10-13 June 2024

AARDO-MARDI Online International Training Programme on "Agricultural Nanotechnology: Catalysing Food Security and Sustainability" 1-5 July 2024.

Online International Training Programme on "Design Thinking for Sustainable Agriculture", in collaboration with IIT Kanpur, during 06-09 May 2024

Invitation For “17th Nematological Event "International Symposium Cum Workshop "Advances In Nematology And Emerging Threats" At The Occasion Of Golden Jubilee Celebration Of National Nematological Research Centre, University Of Karachi On 9th-11th October, 2024.

ADB Asian Impact Webinar: Key Indicators for Asia and the Pacific 2024 Launch, 22 Aug 2024, Thursday. Entomopathogenic Nematode Forum (EPN), Nematological Society of Southern Africa. 20 August 2024.

Summit on “Renewable Energy Development under CPEC: Financing Opportunities for Chinese Private Sector” on August 20, 2024. SDPI Islamabad Pakistan.

“Assuring Food Safety and Security”, from 19 to 23 August 2024 under the Singapore Cooperation Programme Training Award (SCPTA).

Invitation: Webinar on Transformative Applications of Artificial Intelligence, July 31, 2024. ECOSF, Pakistan.

ADB Invitation: Asian Economic Development Conference 13-14 July 2024.

FAO Invitation WG3 Meeting INSOILFER. Meeting of the WG3- Quality and Safety Fertilizer Assessment. 20 June 2024

Online International Training Programme on Advancements in Agricultural and Food Engineering in India", (IIT-KGP), India, 10-13 June 2024

"Effective Policies, Programs and Schemes for Empowering Youth & Women in Establishing and Managing MSMEs" AARDO India.

Dialogue NEXT in Mexico: Nurturing Farmer Resilience for Food Security, 10-11 July 2024. CIMMYT's global headquarters in Texcoco, Mexico.

Engineering nitrogen-fixing microbial communities associated with maize and sorghum roots 20 May 2024. Phytobiomes Alliance Webinar Series.

75th International Symposium on Crop Protection 21 May 2024 Ghent Belgium.
 International Conference of Al-Farabi Kazakh National University, 27-28 March 2024.
 Invitation to Workshop on Low-Risk Alternatives to Priority HHPs in Pakistan.3 June 2024. CABI Pakistan.
 International Centre for Genetic Engineering and Biotechnology (ICGEB) “19th International p53 Workshop” 13-16 May 2024, Trieste, Italy.
 "Current state of science and technologies and development prospects during the Fourth Industrial Revolution" 6-7 May 2024at Azerbaijan Technological University.
 “Reviewing Pakistan’s Food Security Policy Amidst Climate Change and Nutrition Situation”, 30 May, 2024 SDPI, Islamabad Pakistan.
 Policy Dialogue on “Building Climate Consensus for COP29: The Road to BAKU”. 11 May 2024.
 Horizon Scanning Workshop: Prioritization of Quarantine Pests for Pakistan 29 April - 03 May 2024 CABI, Pakistan.(Physical)
 3rd CAREC Climate Policy Dialogue Securing a Sustainable Future for Central Asia: A Dialogue on Climate inaction, Investment Gaps, and Regional Cooperation. 25 April 2024
 2024 World Environment Day Symposium session hosted on 5 June 2024 by the Green Institute.
 ADB Asian Development Policy Lecture—Vic Adamowicz, 25 April 2024.
 FAO Invitation WG1 Meeting INSOILFER. Second Meeting of the Working Group 2 (WG2)- Establishment of a soil fertility and nutrient monitoring system. 2 May 2024
 FAO Invitation WG2 Meeting INSOILFER. Second Meeting of the Working Group 2 (WG2)- Sustainable Soil Fertility and Fertilizer Management. 30 April 2024.
 2024 IsDB Group Annual Meetings,Riyadh, Saudi Arabia, from 27 to 30 April 2024.
 First Regional Exchange Workshop on Cryosphere and Climate Change, organized within the framework of the GEF-UNDP-UNESCO, 3-4 April 2024.
 Horticultural Science: From Discovery to Application Hybrid Event hosted at the Park House, University of Reading, Whiteknights Campus, UK 26-27th March 2024
 The WTO Joint Statement Initiative on Electronic Commerce: A Post-MC13 Dialogue
 Online Course on Electronic Commerce and Digital Provisions in Regional Trade Agreements.8 March 2024.
 "International Women's Day 2024". IFAD
 INVITATION: 7th World Food Science & Technology Conference, London, UK, March 14-15, 2025
 Asian Impact Webinar: Asian Development Policy Lecture - Caren Grown, 26 March 2024
 “Sustainable Agriculture and Food Security with BCG Model” Thailand.11-20 March 2024.
 International Conference on "Emerging Technologies on Crop Improvement in Pakistan". 19-20 Feb, 2024. Pakistan Society of Plant Breeders and Geneticists. Poster presentation.
 FAO’s International Network of Black Soil (INBS)FAO webinar, Sustainable Black Soil Management- A Case Study from China. 06 February 2024.
 First INSOILFER webinar “*Soil health as a prerequisite for crop production: The relevance of organic fertilizers*” Tuesday, 30 January,2024,FAO.
[International](#) Annual International Training Course on “ Market Access through Competency Based Education and Training in Horticulture (MACBETH) Short Course: Training-of-trainers on Managing Food Safety in Fresh/Processed Fruit and Vegetable Value Chains ”, which was organized by the Kasetsart University, under the support of Thailand International Cooperation Agency (TICA),[Training Workshop on “INNOVATIVE PRACTICES FOR THE DEVELOPMENT OF A SUSTAINABLE AGRI BUSINESS FOR THE FUTURE”](#) 19-23 February 2024, Songhai Center, Benin.
 ADB Economists’ Forum 2024 (17-19 January 2024)
 Asia Pacific Advanced Network 57th Meeting, 29th January – 2nd February 2024, Thailand
 Webinar on “Potential of Agrifood Systems and Mitigating Climate Impacts” Monday, January 15, 2024

1. COMSTECH Webinar on “Allama Iqbal’s Perspective on Science and Technology” Date: 5th July 2022

2. International advanced training course on intellectual property. Date: 27-28 July, 2022
3. International Workshop on the Role of Artificial Intelligence (IW-RAI) in Healthcare, Agriculture and Energy Sectors, Time: Aug 4, 2022 09:00 AM Islamabad.
4. HALAL TESTING AND CERTIFICATION INTERNATIONAL WORKSHOP, Time: 9:00-18:00 Eastern Africa Time , Date: 22 to 26 August 2022
5. “Role of PCRWR in Addressing Water Security Challenges of Pakistan” Council of Research in Water Resources (PCRWR), Date: August 03rd , 2022.
6. International Training Workshop on Managing Science and Technology Parks (STPs)
7. Time: Sep 7-8, 2022 09:30 AM Islamabad.
8. PAKISTAN-TURKEY-KAZAKHSTAN YOUTH FORUM ON BIOTECHNOLOGY , Time: Sep 13, 2022 08:30 AM Islamabad.
9. International Virtual Seminar on “Solutions to Combat Food Insecurity and Malnutrition in the Sahel” to be held at the Science Summit during the 77th Session of the United Nations General Assembly (UNGA) on 26th September, 2022.
10. "INTERNATIONAL SYMPOSIUM ON EXCELLENCE IN SCIENCE" ICCBS/Comstech. 22-24 September 2022.
11. NAPRECA - COMSTECH Summer School, “Phytomedicine - from the bush to the shelf” 31st October – 4th November 2022
12. World Food Day 2022; Addressing Pakistan Food Security Challenge -Post Floods (Virtual Event Only), Date: 11th October 2022
13. International Symposium on "Role of Basic Sciences for Sustainable Development. COMSTECH Secretariat, on 13th October from 14:00-17:00 Pakistan Standard Time.
14. Panel Discussion and Report launch on “Climate Finance for WASH brief - Pakistan, 22nd of December 2022 at 10:30AM – 2:00PM. SDPI Islamabad.
15. Invitation to SDPI Special Seminar on Precision Agriculture and use of AI technologies in Pakistan, Oct 07, 2022, SDPI Islamabad.
16. 39th International Vegetable Training Course on “Post-Harvest management for Fruits and Vegetables.
17. Participation in virtual training program AARDO-FERO Sustainable Practices for Smart Agriculture and Livelihood in African-Asian countries 25-29 October 2022
18. "Agri-Tech Solutions and Approaches to Sustainable Rural Development" hosted by IIT-Delhi, during 21-25 June 2021.
19. Online International Training Programme on Modern Concepts in Plant Diseases and Pest Management for Enhancing Quality and Productivity during 11-14 October 2022, UNZA, Zambia
- 2021 **Online Certificate Course on “Molecular Biology Techniques”** Organized by: COMSTECH Secretariat, Islamabad in Collaboration with the International Center for Chemical and Biological Sciences (ICCBS) Karachi, Pakistan January 11-12, 2021.
- 2021 COMSTECH Webinar on **“Pandemic lessons for science communication- 6th Jan 2020”**
- 2021 Public Lecture by COMSTECH on **“Engagement in Medical Research to Promotes National Health and Wellbeing. 21 January 2021.**
- 2021 **“International Workshop on Fundamental Techniques in Viral Diseases Diagnostics”** COMSTECH. 25-27 January , 2021.
- 2021 Partial discussion on STEM- Women in the Covid-19 Pandemic”. COMSTECH 11th February 2021.
- 2021 **“The Story of Favicovir, Domestic Drug Development for Covid-19 Treatment.** COMSTECH, 18th February 2021.
- 2021 **“Basic Plant Tissue Culture Techniques”** On line course 16-17 February, 2021 by COMSTECH (OIC) Islamabad Pakistan.
- 2021 **“Rural Resource Management and Climate Change Adaptation”** On line International Training Programme by National Institute of Rural Development and Panchayati Raj (NIRDPR), India and Africa-Asian Rural Development Organization (AARDO) on 15-24 February 2021.
- 2021 **“Science Communication and Public Engagement”** International Center for Chemical and Biological Sciences (ICCBS) , Pakistan Biotechnology Information Center (PABIC) Karachi Chapter and COMSTECH Islamabad, Pakistan on 9th March 2021.
- 2021 International Seminar on **“Seismicity, Seismotectonic, Seismic Hazards Including geological & Geophysical Aspects”** COMSTECH and QAU, Islamabad Pakistan on 11-12 March 2021.

- 2021 Two Fluid Plasma model for the generation of seed magnetic fields and astrophysical jets” COMSTECH, 24th March 2021.
- 2020** Global Al-Farabi Forum, December 21-22, 2020, Islamabad
- 2020 “COMSTECH Webinar on *Opportunities for Production of Affordable Biosimilar Medicines, and Plant-Based Novel Therapeutics, in the Islamic World*” by Prof. Dr. Ahmed Abdullah Azad on 12th November 2020.
- 2020 2-Days Hands-on Workshop on " *Contextual probability: concepts, implementations and applications*" 26 October and 27 October 2020 (2pm to 6 pm)”
- 2020 “*Plants and Their Metabolites as Leading Molecules for Pharmaceutical Industry*” on 20th October 2020. COMSTECH Webinar
- 2020 “A virtual Seminar- *World Food Day* , 16th October 2020” COMSTECH Webinar.
- 2020 A Public Lecture by Dr. Naweed. I. Syed “*Brain – Machine Interface: Future of Artificial Intelligence, Machine Learning and Singularity*” 16th Oct, 2019 (10.00 - 11.00 a.m.) Venue: COMSTECH Secretariat, Islamabad
- 2020 COMSTECH virtual seminar on *Saline Agriculture -Solution to Global Food Security* on 29th September 2020. COMSTECH Webinar.
- 2020 Online Course on IP “*Intellectual Property For Scientists*” for Scientists. September 9, 2020, COMSTECH.
- 2020 *International Symposium on Ecological Restoration and Management of Aral Sea* . CAREC Institute Capacity Building.
- 2020 Online *5th Symposium on Potato Cyst Nematode Management* . Association of Applied Biologists Warwick Enterprise Park, Wellesbourne, WARWICK.CV35 9EF, UK.
- 2020 Training program on *Development and Management of Special Economic Zones under the Belt and Road Initiative* on December 22-23. Economic Cooperation Organization - Science Foundation (ECOSF).
- 2020 Online workshop “*Advances in Nematology Conference*” 15th December 2020.UK
- 2020 *HEC Digital Library Collections For Your Next Scholarly Research*. October 14, 2020. Higher Education Commission. Islamabad.
- 2020 *Elsevier Webinar for Pakistan research community on Strengthening Research Planning using Elsevier Tools-Scopus, Science Direct & Mendeley*. Pakistan Society of Nematology, NNRC, University of Karachi. October 2020.
- 2020 Travelling Sugarcane Seminar under PSDP Project “*Productivity Enhancement of Sugarcane*” Plant Sciences Division, PARC 22nd November 2020- 04th December 2020.
- 2019** *Seminar on Science Diplomacy*, 27th November 2019, COMSTECH, Secretariat, Constitution Avenue, Islamabad.
- 2019 15th Nematological Event" *Significance of Nematode Identification for Better Management*” National Nematological Research Center (NNRC), University of Karachi, 30th -31st December, 2019

REFREED PUBLICATIONS

HEC Refereed Journal

- 2024 Faseeh M, **S.Ahmed**, A, Farooq and S.Asad. 2024. Potato agriculture research Station Batakundi,naran, a hot spot for cyst nematode (*Globodera spp.*) of potato in Pakistan. BIO Web of Conferences 100, 04033 (2024) <https://doi.org/10.1051/bioconf/202410004033>.
2022. Shahid Ahmed, Muhammad Fayyaz, Shahzad Asad, Muhammad Amjad Ai and Abdelfattah A. Dababat (2002) Discovery and distribution of root lesion nematode *Pratylenchus neglectus* in wheat fields NARC Pakistan. BGRI Technical Workshop. 2022
- 2022 Shahid Ahmed, Muhammad Fayyaz, Shahzad Asad, Muhammad Amjad Ai and Abdelfattah A. Dababat (2002) Discovery and distribution of root lesion nematode *Pratylenchus neglectus* in wheat fields NARC Pakistan. 8th International Cereal Nematodes Symposium, Abant, Turkey 26-29 Sept 2022.
- 2020** **S. Ahmed**, L.Yue, Q. Liu and H. Jian 2020. Evaluation of media for mass production and fermentation of *Pseudomonas spp.* for integrated management of cereal cyst nematode (*Heterodera avenae*). 38 (1) 45-55.
- 2019 L.Yue, **S. Ahmed**, Q. Liu and H. Jian 2019. Management of *Meloidogyne incognita* on tomato with different biocontrol organisms. Pakistan Journal of Nematology 37 (2) 53-62.
- 2019 **S. Ahmed**, Q. Liu and H. Jian 2019. Bacillus cereus a potential strain infested cereal cyst nematode (*Heterodera*

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- avenae). Pakistan Journal of Nematology 37 (1) 53-62.
- 2018 **S. Ahmed**, Q. Liu and H. Jian 2018. Bio-control potential of *Bacillus* isolates against cereal cyst nematode (*Heterodera avenae*). Pakistan Journal of Nematology 36 (2) 1-26.
- 2018 **S.Ahmed**, A.Munir, S. Asad and A. Muhammad. 2018. Panama wilt of banana orchards in Sindh Province, Pakistan. Pakistan Journal of Nematology. 36 (2) pp. 223
- 2018 **Shahid Ahmed**, Qian Liu and Heng Jian. 2017. *Bacillus cereus* a potential strain infested cereal cyst nematode (*Heterodera avenae*). Pakistan Journal of Nematology.
- 2017 **Shahid Ahmed**. 2017. Seed bacterization with *Pseudomonas* isolates against Wheat cyst nematode. Bangladesh Journal of Botany. 46(3) 995-1000.
- 2015 **S. Ahmed**, A. Munir, S. hameed, S. Asad, M. Fayyaz, M. Zakaria and M. Umer. 2015. Prevalence of nematode in different districts of Punjab, Pakistan. Pak. J. Nematol. Vol.33 (1). pp. 99- 104
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