



PROF. DR. WASEEM AHMED ADJUNCT PROFESSOR

**Faculty of Basic and Applied Sciences, The University of Haripur, Khyber
Pakhtunkhwa, /**

Personnel	Father's name	Muhammad Mushtaq
	N.I.C. Number	17301-1593087-9
	Date of Birth	May 25, 1982
	Religion	Islam
	Domicile	Haripur
	Permanent address	Village Julian Teh & distt Haripur
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Education	Qualification	Institution
	Ph.D.(Horticulture) Flavor chemistry	Uni. Of Agric., Fsd, Pakistan/ Uni. of Florida, USA
	M.Sc. (Hons.) (Horticulture)	Uni. of Agric., Fsd, Pakistan/ USA
	B.Sc.(Hons.) (Horticulture)	Uni. of Agric., Fsd, Pakistan
	F.S c. (Pre- Medical)	Army Public School Degree and College Peshawar Cant Pakistan
	Matriculation (Science)	F.G. Public School Panoaqil Cant Pakistan

**Post doc Uni. of Florida , USA (Biomedicine and drugs role) on infectious diseases control mechanism
NEW METHODS FROM JAPAN**

Experiences	➤ Worked at date palm Research Station (Jhang), Pakistan for 12 weeks (Internship and Training). ➤ Comprehensive Report Writing on Training. ➤ 12- Year experience in O and A level teaching in Faisalabad. ➤ One -year experience for budding and grafting of fruit plants.
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- Nursery rising of fruit plants.
 - Propagation of fruit plants in different ways sexual and asexual methods.
 - Marketing & export of different fruits/ vegetable according to international standard.
 - Nursery management of fruits / vegetables plants (with modern methods).
 - Expert of biochemical analysis of fruits and vegetables (with modern method).
 - Expert of nutrient analysis of fruits. (Macro, Micro nutrients).
 - Major work in citrus, date palm, mango, Stone fruits crops.
 - Post harvest technique management (Cold storage, CA, Pre harvest and Post harvest Management of fruit and vegetables).
 - Tunnel farming (different vegetables management).
 - Dates palm & Mangoes orchards management (Propagation, Quality, Flavor, Taste, Value addition by product).
 - Physiology Lab working in UAF for physiology aspect of fruit.
 - Research officer in UAF in different project.
 - Germ plasma project working in UAF (Ber, Mango, citrus, date palm).
 - Ph.D. Research work in Aybu Agriculture Research Center in Faisalabad.
 - Courses teaching at Under- and Post-graduate level at university of Agriculture Faisalabad.
 - Different field visit in Pakistan (Citrus, Mango, dateplam, stone fruit).
 - KPK visit for stone fruit (Plum, Peaches, Apricot, Apples, Walnut, etc).
 - Local Wax development and fruit coating in Aybu Agriculture Research Center Faisalabad.
 - 5 years Research work in Aybu Agricultural Research Centre Faisalabad.
 - 12 students of MSc (Hons) Research work and help for thesis write up in UAF.
 - NIAB 1 year work for different biological assay aspect of fruit.
 - Biochemistry assay working according to fruit characteristics and quality.
 - DNA extraction and different tissue culture handling projects in UAF.
 - Photochemical analysis of fruits, vegetables with different techniques.
 - Post-harvest modern instrument used (Exchanges of gases, acidity meter, ethylene generator , Firmness tester, HPLC, MAS, CA).
 - Experiences to develop modern update lab. (Physiological, Genetic, Nutrient Management, Modern biological Agriculture development lab).
 - Experiences to conduct Research in pre & post-harvest management fruit/Vegetable crops.
 - Experiences to operate the Modern instruments in Postharvest and Pomology lab.
 - Experience to Diseases management of fruits with modern techniques.
 - Experience to enhance the shelf life of fruits and vegetables. (Dateplam, Mangoes, citrus major vegetable).
 - Experience to Survey of Pakistan for cut flower industry.
 - Experiences to dates manufacture and maintained their shelf life. (Export, marketing, Value addition, pre and post harvest management of date fruit).
 - Experiences different tissue culture techniques (Seed , cotyledons, Stem, root , shoot tip embryoni , zygotic development, STG).
 - Experiences to extraction of different enzymes in fruit (Free, Bound enzymes)
 - Experiences to before and after harvest of fruit for maintain their quality and shelf life of fruit.
 - 8 year experience to working in pomology lab. (physical, chemical, nutrient , phytochemical Analysis of fruits.
 - Different student's research trail conducts in university (Major fruit, citrus, Mangoes, Banana, date plam, Stone fruits).
 - Experience to work & management of Arshad and Co Company Islamabad.
 - Experience to work different processing industry in Sargodha & Bhalwal of Pakistan.
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- Different Seminar and teaching work shop in Sargodha & Bhalwal to motivated the Local famner.
 - Experience in free disease nursery of citrus trough STG process.
 - Experience field visit Sargodha, Bhalwal, Sahiwal, Khanewal, Lyah and Toba Tek Singh regions. Role of functional foods and their impacts on human.
 - Experiences for army farm management at parowal Multan Pakistan. Food packing materials and their uses.
 - Experience for development of dateplam industry (Vegetative propagation, reproductive Management genetic modification, value addition, marketing and exposed the industry in Pakistan, Micrpoagtion, ripening of napalm fruit different chemical application to Enhanced the quality of fruit.

Experience in Biomedicine and Analytical

1. Bio drug mechanism and role
2. Wearable technology
3. Isolation and purification of compounds
4. Advance analytical approaches to pharmacy bio-products
5. Pharmacy and phrameutical sciences
6. Modeling and pharmaceutical approaches

Experiences in Advances Techniques in Biological and Agricultural Research

Advanced Nuclear techniques

- Radiation and radioisotopes, detection and measurement of radiations and radioactivity
- Health hazards and safety precautions, application Research.

Spectroscopy techniques

- Ultraviolet, visible, infra red, emission and atomic absorption

Separation techniques

- Thin layer, column, paper, gas, liquid and high performance liquid chromatography
- Electrophoresis and centrifugation.
- Extraction of essential oil with different methods
- Supercritical fluid Extraction

Advanced nutrient techniques diction

- All micro and macro nutrients

Advance Phytochemical diction of fruit and Vegetables

- All Phytochemical analysis (25 class of chemistry)
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- Food additive materials
 - Bioactive compounds
 - Advance methods for new functional food role and their impact

Following Courses teaching at Under- and Post-graduate level at University of Agriculture Faisalabad
Department of Horticulture

	Title of the course
01.	Fundamentals of Horticulture (Theory)
02.	Principal horticultural practices
03.	Principal horticultural crops
04.	Principles of fruit production
05.	Production of fruit
06.	Citriculture II
07.	Citriculture I
08.	Mango and Date palm culture
09.	Minor fruit production
10.	Specie and condiments
11.	Medical and aromatic plants
12.	Propagation of nursery management
13.	Advances in fruit science
14.	Biotechnology of Horticultural crops
15.	Bio-drugs and formulation
16.	Health and Pharmacy

Research Interest

- Asexual and sexual Propagation of Horticultural Plants.
 - Gardening and New Innovations with advanced land scaping
 - Insect Pest and disease management of fruits. (Modern methods)
 - Establishment of orchards and Gardens. (Modern landscape methods)
 - Import and export of different fruits/ Vegetables.
 - Lawn and garden management.
 - Development of free virus citrus nursery.
 - Landscape and floriculture management of different flower.
 - Development of modern Post harvest LAB.
 - Physiology and biochemistry aspect of fruit / Vegetables.
 - Genetic biodiversity of fruits crops.
 - Irrational effects in different fruit / Vegetables crops
 - Modern packing material development.
 - Studies on post harvest management of fruits and vegetables.
 - Survey of agro industries, to evaluate the technological status and associated problems.
 - Development technology for packaging and Storage for reduction in post-harvest losses of fruits and vegetables.
 - Development of technology for value added products of fruits, vegetables and food grains.
 - Physiology of fruit ripening and Molecular level for assement of fruit / Vegetable For their quality.
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- Ethylene management during ripening and storage of horticultural crops.
 - Regulation of fruit colour, aroma Taste.
 - Controlled atmosphere (CA) storage of fruits
 - Modified atmosphere packaging of fruits and improve their quality
 - Improvement of Production Technology of horticultural crops.
 - Chemical control of suckers in olives.
 - Mechanism of Fruit let Abscission and Fruit Ripening of Mango- with a particular reference to polyamines.
 - Improvement of Fruit production technology and Post harvest technology.
 - Genetic modification of Plants.
 - Regulation of Fruit colour development in apple.
 - Genetic transformation of fruit and other horticultural crops.
 - Postharvest Physiology of horticultural produce.
 - Intelligent food packaging
 - Microbiome & probiotics
 - Nutritional immunology & toxicology
 - Community nutrition & public health
 - Physiological and biochemical changes during ripening and extended storage of banana.
 - Utmost desire to develop a modern Post harvest Lab in any area of Pakistan.
 - Date culture byproducts.

Academic distinctions

- Date management in Pakistan
- Merit scholarship holder throughout the carrier
- M. phil leading to Ph.D. HEC Scholarship 2007-2008.
- Presentation of different oral seminars and conferences attends.
- First position in Agrarian writer completion.
- Member of pharmacy department in UK
- Member of royal pharmaceutical department
- Head Department of Horticulture
- Member research and development in UK
- Member of Board of study in Pakistan
- Adjunct professor in Uni. of OMAN

Extra & Co curricular activities

- Member, Pakistan Society of Horticultural Sciences, Pakistan.
 - Member, Society for the Advancement of Agricultural Sciences, Pakistan
 - Member of the Agrarian Society, University of Agriculture, Faisalabad
 - Member, Pakistan Society of botany.
 - Member of the Agrarian writer, University of Agriculture, Faisalabad.
 - Member of the chemistry society, University of Agriculture, Faisalabad.
 - Member of the Entomology society, University of Agriculture, Faisalabad.
 - Member of the Allopathy lab, University of Agriculture, Faisalabad.
 - Member of the Post Harvest Training Centre in University of Agriculture, Faisalabad.
 - Scientific Book, reading and writing
 - Speech Urdu and English reading and writing.
 - Games (Cricket, Badminton football).
 - Member of Medical board association
 - Member of bio drugs evaluations
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- Ethical committee member in uni. of UOH
- Novel reading.

Diploma/Courses

- Application of Edible Coating on Whole & Minimally Processed Fruits 2013, Australian Center for International Agriculture Research.
- Certificate for postharvest management of fruit crops during research work in Post-Harvest Research Centre Faisalabad.
- Certificate University festival 2010.
- Citrus values chain management training Australian AID.
- Diploma in Worldwide communication through internet.
- English proficiency certificate from USA
- Food product development competition 2014.
- Certificate for training of Advances techniques in Agricultural and Biological Research in NIAB Faisalabad.
- MS office 2002 Diploma.
- Drugs analysis and formulation in UK
- Mushroom Production technology May, 27th-31th 2013 in UAF.
- Nursery Management training 07 October, 2013 Australian Government Organized by National Institute of Food Science & Technology. Pakistan Society of Horticultural Sciences.
- Pomology Lab fruit analysis certificate during research work in UAF.
- Apparition certificate for post-harvest management of Fruit / Vegetable During Ph.D. Studies in Post-Harvest Research Centre Faisalabad.
- Experience certificate received during work in Post-harvest training in UAF.
- Experience for bio-drugs and analysis in USA
- Professional Certification in Tunnel Farming organized by UAF.
- Repairing of hard ware of computer
- Teaching Assistant in UAF with session of 2010-2012
- Two days training courses on application of edible and minimally processed fruit.
- Window operating system
- Windows 2000 operating and handling
- Worldwide communication through internet
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Languages and Degree of Proficiency

	Read	Write	Speak
English	Excellent	Excellent	Excellent
Urdu	Excellent	Excellent	Excellent
Punjabi	Good	Good	Excellent
Saraiki	Fair	Fair	Fair
Pashato	Fair	Fair	Fair

Information Technology Skills

- Word Processing (MS Word).
- Spreadsheet (MS Excel).
- Presentation (MS PowerPoint).
- Data processing in (MS Excel).
- Worldwide communication through internet

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- Repairing of Hard ware of computer.
 - Statistical Soft Wares (MSTATC and GENSTAT) Agriculture/ medical
 - Statistical Soft Wares (MSTATC and American) Agriculture.
 - Statistical Soft Wares (Version X9) Agriculture.
 - Statistical Soft Wares (update version) Agriculture.
 - UL-HPLC software uses

RESEARCH AND TEACHING EXPERIENCES AT WOLRDWIDE

- Adjacent Professor in Tokyo University Japan till date ...
- Member of Research and Development in University of Tokyo Japan till date -----
- Adjacent Professor Natural Products at NUS till date -----
- Member of Research and innovation in CU Bangkok
- Research Coordinator in Horticulture in CU Bangkok
- Head bioethical committee in Bangkok

TEACHING EXPERIENCES AT UNIVESITY

- Lecturer in Agricultural University Faisalabad, Pakistan 2005-2011.
- Assistant Professor, Agricultural University Faisalabad, 20011-2013.
- Associate Professor,/ Department of Horticulture, The University of Haripur (2015- till date).
- Professor till date ----
- Head outreach program Department of Agricultural Sciences, The University of Haripur
- Head seminar program Department of Agricultural Sciences, The University of Haripur
- In-charge horticulture and bio-drugs lab at UOH
- Head central lab in UOH\
- Head accountability lab
- Director ORIC office of research innovation and commercialization till date

New work Novel

Ideas

- Cell Culture (uoh)
 - MTT Assay
 - Wound Healing (Scratch) Assay
 - Colony Formation Assay
 - Design of compounds
 - Modelling
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- QSAR Modeling
 - Action, mode
 - Structure-Based Drug Discovery
 - Molecular Docking (Japan, Karachi)
 - Structure-Based Pharmacophore Mapping
 - Using MD simulation to Find New Drug Binding Sites
 - Artificial Intelligence in Anti-Cancer Drug Discovery (Bangkok)
 - Using MD simulation to Find New Drug Binding Sites (USA)

Patents: 07

Participant in Conferences

1. Participated in International Conference on “Sustainable Crop Improvement and Integrated management” organized by Faculty of Agriculture, University of Agriculture, Faisalabad-Pakistan held on September, 14-16, 2006.
 2. Participated in International Conference on “Sustainable Crop Production on Salt-Affected Land” organized by Saline Agriculture, Research Centre, University of Agriculture, Faisalabad-Pakistan held on December, 4-6, 2006.
 3. Participated in International Symposium “Modern Approaches and Techniques in Agriculture to Ensure Food Security in Pakistan” organized by Faculty of Agriculture, University of Agriculture, Faisalabad- Pakistan.
 4. Participated in Seminar on “Plant Nutrients” by NFC Institute of Engineering and Fertilizer Research, Faisalabad from 4th to 5th April, 2006.
 5. Participated in International Workshop on Allelopathy“ Current Trends and Future Applications” organized by Weed Science- Allelopathy Lab., Department of Agronomy Faculty of Agriculture, University of Agriculture, Faisalabad-Pakistan held on March 18-21, 2007.
 6. Participated in International Workshop on “Production of Disease Free Citrus Nursery Plants” organized by Citrus Nursery Sanitation Lab. Institute of Horticultural Sciences, University of Agriculture, Faisalabad-Pakistan held on September 12-13, 2007.
 7. International Symposium on Prospects of Horticultural industry in Pakistan Institute of Horticultural Sciences, university of Agriculture, Faisalabad, March 28-30, 2007.
 8. International Symposium on Modern Approaches and Techniques in Agriculture to Ensure Food Security in Pakistan University of Agriculture, Faisalabad, Oct 13- 14 2008.
 9. One day seminar in advancing Teaching technique in Islamabad 20/08/2008.
 10. International Conference on ‘Modern Approaches and Techniques in Agriculture to Ensure Food Security in Pakistan’, October 13-14, 2008, University of Agriculture, Faisalabad, Pakistan.
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11. International Conference on 'Plant Sciences' April 21-24, 2008, University of Agriculture, Faisalabad, Pakistan Workshop on "Production of Disease Free Citrus Nursery Plants" (Production, Certification and Future Challenges). 12 to 13th September, 2007. Organized by Institute of Horticultural Sciences, University of Agriculture Faisalabad and Ministry of Science and Technology Islamabad, Pakistan.
 12. One day seminar in aspect of floriculture in Faisalabad on 28/08/ 2009.
 13. Participated in One day awareness seminar on citrus held at Ayub Agriculture Research Institute Faisalabad on 14-3-2009 arranged by the citrus Research Institute, Sargodha.
 14. The 10th International Pure Mathematics Conference 2009 is again a joint venture of Mathematics Department of Quaid-i-Azam University and Pakistan Mathematical Society.
 15. International conferences on weed sciences in Lahore 14, 16 August, 2009.
 16. Participated International Seminar on Floriculture Industry: Exploring New Avenues in Pakistan. University of Agriculture, Faisalabad on 25th March, 2010.
 17. International work shop Recent Advance in Aetiology and Management Mango Sudden Death Syndrome, 27-31 October, 2010 University of Agriculture, Faisalabad.
 18. 3rd Creative Leaders Conference, 2010, held in Islamabad.
 19. Participated and attended an International Symposium on "Date Palm: Domestication, Distribution, Production and Marketing" at New Senate Hall, on April 4-5, 2011 and organized by Institute of Horticultural Sciences, University of Agriculture, Faisalabad, Pakistan.
 20. Participated and attended a International Seminar on "Agricultural Productivity under stress environments: strategies and applications" Date Palm: Domestication, Distribution, Production and Marketing" at old Senate Hall, on April 13, 2011 and organized by Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad, Participated and attended an international seminar entitled "50 years UAF-WSU legacy" which was held on Monday 14th March, 2011 at 11.0 am in New senate Hall , University of Agriculture Faisalabad.
 21. Participated and attended international Seminar on " Horticulture and Agribusiness in Developing Countries" jointly organized by Embassy of the Republic of Indonesia, Islamabad & University of Agriculture , Faisalabad, and held in Old Senate Hall, University of Agriculture, Faisalabad, on Thursday, March, 2011.
 22. Participated as expert in Consultant workshop on "Annual work plan of 'Punjab Agriculture & Meat Company' (PAMCO)" specially on growing of citrus in Layya, Bakher and Muzafer Grah' which was held in Syndicate Hall University of Agriculture Faisalabad, Pakistan, under the chair of Vice Chancellor UAF and Chief Exective Officer, LMC/PAMCO on 18th June, 2011 from 10.00 am to 3.00 pm.
 23. Attended and participated one day workshop "Pakistan Agriculture Value Chain Assessment" organized by USAID project Fincon at Holyday In Lahore on August 11, 2011.
 24. Attended and participated one day citrus stakeholders workshop "Citrus growers association and other stakeholders" under ASLP Citrus Project organized by ASLP project at Syndicate Hall, UAF on 21st October, 2011.
 25. 10th international and 22nd national chemistry conference on November 21-23, 2011 in UAF.
 26. One day seminar on "Prospects of date palm promotion in Punjab, Pakistan" November, 12, 2012, Organized by Institute of Horticultural Sciences, University of Agriculture Faisalabad, Horticultural
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Research Institute (AARI) Faisalabad, Pakistan.

27. Australia-Pakistan Agriculture Sector Linkages Programme (ASLP Citrus Project) “Citrus Growers Conference” May, 9-10, 2012, Organized by Institute of Horticultural Sciences, University of Agriculture Faisalabad, Horticultural Research Institute (HRI), National Agriculture Research Centre (NARC) Islamabad and Pakistan Agriculture Research Council (PARC).
 28. 1st international conference on safe food and human health January 10-11, 2012
 29. Advances in algal and bio fuel conference on December 8-12-2012.
 30. One day seminar in Ayub Research center for waxing development 27, December, 2012.
 31. 36th all sciences conference in Nov, 12, 13 Gomal University Pakistan.
 32. Seminar for "Implementation of Islamic social welfare mechanism in the society" held at UAF 21, Dec 2012.
 33. 48. One day Seminar on Energy University of agricultural Faisalabad. Dated: March 30, 2013.
 34. One day Seminar on Agricultural Entrepreneurial Growth and employment opportunities March 29, 2013.
 35. Two days International Conference on Global Environmental Changes & Green Expo 16, 17 2013. GCUF.
 36. Seminar on “New Horizons and Recent Advances in Chemical and Biological Sciences Expo February 14, 2013.
 37. We and medicine Pakistan’, May 13-14, 2013, University of Agriculture, Faisalabad, Pakistan.
 38. First day of bio-physicochemical basis for techno pruner ship 2nd - 3rd April, 2013 held in Punjab University Lahore.
 39. International Workshop on “Seed Physiology, Production and Management” held on October 03-04, 2013, organized by Department of Crop Physiology, University of Agriculture, and Faisalabad.
 40. 2nd & 3rd Young Leaders Summit, Organized by Positive Pakistan Foundation.
 41. Seminar on research and development in mango value chains Saturday 23rd November, 2013.
 42. One day conference on integrated pest management of fruit and vegetables department of entomology UAF 2013.
 43. Seminar on "AgMIP-Seminar on climate change" Department of Agronomy, University of Agriculture, Faisalabad (6/4/2013-6/6/2013) [Local]
 44. Participated in Seminar Under the title “nutrition of citrus plants” delivered by the Dr. Steaven Saliveone Australian Scientist organized by the ASPL program on 22/2/2013.
 45. International conferences on date Palm Present Status & Future prospects Sep, 02-03 2013, the Islamic university Bahawalpur Pakistan.
 46. One day Training Workshop on “Construction, Operation & Maintenance of Bio-Gas Tube wells” on date 13, April 2013.
 47. Consumer food safety and quality conference” April 17, 2013. In UAF.
 48. International Conference & Expo in UAF. 2014.
 49. International Conference on Recent Trends in Maize Production in UAF. Dated: May 05, 2014
 50. Recent developments in human nutrition on 19-20 March, 2014 at Pearl Continental Hotel, Lahore.
 51. International Conference on Nutritional Therapies against the Lifestyle Disorders in UAF. Dated: May 30, 2014
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52. Seminar on “Reimaging Cost Recovery in Pakistan’s Indus Basin Irrigation System” Dated: April 16, 2014.
 53. International Conference Citruculture Challenge and Management held in Bahauddin Zakariya University. Feb11-13.2015.
 54. One day seminar on integrated values chain approach to deliver quality mangoes to markets on 1st April 2015 at UAF.
 55. One day Seminar on Innovative Postharvest Management Approaches for fruits and vegetables on 23rd April 2015 at AARI, Faisalabad.

Participant in Work Shop

1. Workshop on "Teachers Training" held by Faculty of Agriculture, UAF. (12/14/2002-12/14/2002).
 2. Workshop on "Effective Teaching" held by Division of Education and Extension, U.A.F. (12/1/2001-1/1/2002)
 3. Workshop on "The Integration of Modern Biotechnological Tools with Conventional System of Crop Genetic Improvement. Resource Person:" held by Centre of Agri. Biochem. & Biotechnology (CABB), UAF. (2/7/2005-2/12/2005).
 4. Workshop on "Production of Disease Free Citrus Nursery Plants (Production, Certification and Challenges). Resource Person:" held by Inst. of Hort. Sciences, UAF. (9/12/2007-9/13/2007).
 5. Participated in one Day Workshop on “Role of Medicinal Plants in Poverty Alleviation” organized by Institute of Horticultural Sciences, University of Agriculture, Faisalabad-Pakistan on May, 2008. University of Agriculture Faisalabad.
 6. Workshop on "Role of medicinal plants in poverty alleviation" Institute of Horticultural Sciences, University of Agriculture Faisalabad (5/27/2008).
 7. Workshop on "Superficial fluid extraction technology for high value non-traditional crops” Institute of Horticultural Sciences, University of Agriculture Faisalabad (10/21/2008).
 8. Workshop on "Role of Medicinal plants in poverty alleviation” University Industry-Interaction Project of Higher Education Commission held by Inst. of Hort. Sciences, UAF. (5/27/2008-5/27/2008).
 9. Workshop on "Integration of Biotechnology and Conventional Techniques for Crop Improvement" held by Centre of Agri. Biochem. & Biotechnology (CABB), UAF. (4/21/2008-4/26/2008).
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10. Participated in Training workshop on “Sustainable management of insect pests of Fruits with special reference to citrus through modern protection and post-harvest-losses-reduction techniques organized by Department of Agricultural Entomology University of Agriculture, Faisalabad, 01-04 September, 2010.
 11. Participated as expert in Consultant workshop on “ Annual work plan of ‘Punjab Agriculture & Meat Company’ (PAMCO)” specially on growing of olive and grapes in Cholistan which was held in Executive Meeting Hall, NARC, Islamabad, Pakistan, under the chair of Chairman, PARC and Dr. Hamid Jalil, Chief Executive Officer, LMC/PAMCO on 23rd June, 2011 from 10.00 am to 3.00 pm.
 12. Workshop on "Kinnow export coaching program" University College of Agriculture, University of Sargodha (1/25/2011)
 13. Workshop on "Mushroom Cultivation" Institute of Horticultural Sciences, University of Agriculture Faisalabad (1/3/2011-1/8/2011).
 14. Attended and participated one day citrus stakeholders workshop “ Citrus growers association and other stakeholders” under ASLP Citrus Project organized by ASLP project at Syndicate Hall, UAF on 21st October, 2011.
 15. Workshop on "Premier Course on Nursery Management: Resource person" held by Pakistan Society of Horticultural Sciences, Inst. of Hort. Sciences, UAF. (11/4/2008-11/11/2008).
 16. Workshop on "HPLC training” Central Hi-Tech lab, University of Agriculture Faisalabad (3/14/2012-3/20/2012).
 17. Workshop on "Nutrition in Emergency (NIE)" National Institute of Food Science & Technology, University of Agriculture, Faisalabad- Pakistan in collaboration with UNICEF.
 18. Participated One day seminar on “ New Challenges of Insects on Citrus plant” on Friday , July13, 2012 at New Senate Hall, University of Agriculture, Faisalabad organized by Department of Agriculture Entomology, University of Agriculture Faisalabad Pakistan.
 19. Minutes of the One Day Workshop on the “Pre and Postharvest Technology of Selected Fruits in Punjab” held in the Syndicate Room at University of Agriculture Faisalabad (UAF) on 23rd May, 2012
 20. One day Training Workshop on “Construction, Operation & Maintenance of Bio-Gas Tube
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wells” on date 13, April 2013.

21. One day conference on Integrated Pest Management of Fruits and Vegetables. Organized by Department of Entomology, University of Agriculture Faisalabad Pakistan held at New Senate Hall, UAF on 30th November, 2013.
22. 10. One day seminar on Research and Developments in Mango Values chain on Saturday 23rd November, 2013 “Current Best Practices Guidelines for Mango Value Chain Management in Pakistan: Concepts and definitions. One day Seminar managed by the Australia-Pak: Agriculture Sector Linkages Program (ASLP-II) Mango Values Chain Improvement Project at Postharvest Research and Training Centre, Institute of Horticultural Sciences, University of Agriculture Faisalabad Pakistan.
23. Participated in one day Joint Seminar/Farmer day “Farmer Capacity Building Initiative” on September organized by UAF and FAP on September 16, 2013 at Art Council Hall, Okra.
24. Participated in Seminar Under the title “nutrition of citrus plants” delivered by the Dr. Steven Salviere Australian Scientist organised by the ASLP program on 22/2/2013.
25. International workshop on biochar in Pakistan opportunities and potential held on UAF on March 24-27 2014.
26. Developing Technology Driven Technologies workshop arranged by the Office of Research, Innovation and Commercialization in UAF. Dated: September 27, 2014.
27. International Workshop titled "Strengthening agricultural extension system through Information and Communication Technologies (ICT) in UAF." Dated: June 23, 2014.
28. Workshop on “Capacity Building in Seed Technology in UAF.” Dated: June 12, 2014.
29. Workshop on Improvement in Self-Assessment Reports and Scientific Writing in UAF. Dated: May 14, 2014.

Articles Urdu

1. Article on Citrus fruits care and management in Punjab published in Behtreen Zindagi ENGRO TIME 2007 (Urdu).
 2. Articles on organic cultivation of fruits in Kisan Risala in July, 2007 (Urdu).
 3. Article on “mangoes trees trying and fruit splitting” published in monthly Kisaan Risala Lahore, on March 2011 (Urdu).
 4. Article on “Nutritional and Medicinal Importance of Carrot” published in monthly Kisaan Time
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Lahore, on October, 2011 (Urdu).

5. Article on “Medicinal Importance of Pomegranate” published in monthly Kisaan Risala Lahore, on December, 2011 (Urdu).
6. Article on “Pollination of Date Palm” published in monthly Kisaan Time Lahore, on July, 2012 (Urdu).

Articles English

1. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, Rahim Khan “Problems of Peaches in Northern Areas” published in ‘Weekly Technology Times’ Islamabad, Pakistan. Vol. 4, No. 35. 2013. (English).
 2. Imtiaz Hussain, Waseem Ahmad Saeed Ahmad, Rahim Khan “A case study of poor man diet ber” published in ‘Weekly Technology Times’ Islamabad, Pakistan. Vol. 4, No. 35. 2013. (English).
 3. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, Rahim Khan “Rising Need for Seedless Grapefruit Varieties” published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 4, No. 42. 2013. (English).
 4. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, Rahim Khan “Persimmon Fruit Nutrition Facts and Health Benefits” published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 4, No. 43. 2013. (English).
 5. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, Rahim Khan and Irfan “Postharvest Problems of Fruits and Vegetables in Pakistan” published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 4, No. 49. 2013. (English).
 6. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, Rahim Khan “Kinnow Orchards Exposed to Multiple Threats in Pakistan” published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 5, No. 01. 2014. (English).
 7. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, Rahim Khan “Problems of Banana Crop in Sindh Areas” published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 5, No. 10. 2014. (English).
 8. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, Rahim Khan “Pine Apple Cultivation in Pakistan” published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 5, No. 18. 2014. (English).
 9. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, Rahim Khan, Rasheed Ahmad, Liaqat Ali “Apricot as Cash Crop” published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 5, No. 28. 2014. (English).
 10. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, Rahim Khan “Savings Citrus Orchards from Fruit fly” published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 5, No. 33. 2014. (English).
 11. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, Rahim Khan “Walnuts is Gold of Pakistan” published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 5, No. 34. 2014. (English).
 12. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, “Problems of Litchi crop in Pakistan” published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 5, No. 34. 2014. (English).
 13. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, “Problems of Litchi crop in Pakistan” published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 5, No. 40. 2014. (English).
 14. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, “Post harvest management to control aflatoxin contamination of chilli published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 5, No. 43. 2014. (English).
 15. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, “World valuable herb hops with medical benefits published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 5, No. 43. 2014. (English).
 16. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, “Rising water stress in Pakistan published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 6, No. 5. 2015. (English).
 17. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, “Water Resources Management- a must to deal with water scarcity issues in Pakistan published in ‘Weekly Technology Times’ Islamabad, Pakistan Vol. 6,
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- No. 21. 2015. (English).
18. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, "Minor fruit production needs boost published in 'Weekly Technology Times' Islamabad, Pakistan Vol. 6, No. 21. 2015. (English).
19. Waseem Ahmad, Imtiaz Hussain, Saeed Ahmad, "Sun flower seed oil health benefits published in 'Weekly Technology Times' Islamabad, Pakistan Vol. 6, No 26. 2015. (English).

Oral Presentation

1. An Overview of Mango Varieties in India presentation and articles published in National conferences on measures to augment the production of mango varieties for local and foreign Destination 2009. (Oral presentation).
2. Post harvest management of citrus crop. One day seminar postharvest problem and issues in Pakistan 2013, (Oral presentation).
3. Post harvest technology of grapefruit. One day seminar postharvest technology and food security. 2014. (Oral presentation).
4. Seminar on fruit and vegetables production at ARRC, 2013.(Oral presentation).
5. Drip irrigation management in citrus orchard, 2014 held in UAF. (Oral presentation).
6. Ber production workshop in UAF. 2012. (Oral presentation).
- 7.
8. Diseases of citrus management and practice work shop in UAF 2012. (Oral presentation).
9. One day training work shop propagation techniques of some selected fruit plants at UOH, 2015.
10. Role of biomedicine in infectious disease (UF)
11. Isolation and purification of bioactive compound in tumor lines (Uni. of UK)
12. 20 different lectures on Medical science in various university of world

Book Names

1. Nutritional Effects on Citrus author Waseem Ahmed LAP Academic publishing Gmb H & Co. KG. Germany. (English).
2. A booklet on "Date palm cultivation" published in January, 2012 (1st edition) by ORIC-12U01, Institute of Horticultural Sciences, University of Agriculture, Faisalabad.
3. A booklet on "Date palm cultivation" published in January, 2012- 2013 (2nd edition) by ORIC-12U01, Institute of Horticultural Sciences, University of Agriculture, Faisalabad.
4. A booklet on grapefruit postharvest technology and management author Waseem Ahmed published in July 2013, by post harvest center and institute of horticultural Sciences University of Agriculture, Faisalabad.
5. Citrus health's related compounds open tech Published 2019.
6. Bioactive compounds and their mechanism published in spring nature 2019.
7. Phytochemical of fruit and health related properties (Submitted in USA).
8. Physiological and genetic modification in plants (Springer, USA).
9. A book is under progress for chemical profiling and management of fruits crops (Submitted in press USA).
10. Fruit management and their genetic morphology (under progress).
11. Postharvest physiology of tropical fruit (under progress).
12. Biomedical science and approaches in infectious disease springer nature

Distinctions / Awards:

1. Awarded with Shield from Export Promotion Bureau on participating in The Mango Show on July 2006.
2. Awarded with Shield, being “Convener Advertising Committee”, on International Symposium on Prospects of Horticultural Industry in Pakistan from 28th to 30th March 2007.
3. Awarded with Shield, being an “organizer committee” on spring flower show from 27th -30th, 2009, University Festival, University of Agriculture, and Faisalabad.
4. Awarded with Shield, being an “organizer committee” on Hostel management 27th -30th, 2011, University Festival, University of Agriculture, Faisalabad.
5. Award as best Science contribution at Chulalongkorn University whole Asia countries, 2019

Work Related to Academic & Scientific Sectors:

- Appreciation certificate for successfully completion of different projects in UAF.
- Apparition certificate for Postharvest management of Fruit / Vegetable during Ph.D. Studies in Post Harvest Research Centre Faisalabad/ USA.
- Appreciation certificate for working and development of natural based wax in AARI Faisalabad.
- Worked at date palm Research Station (Jhang), Pakistan for 12 weeks (Internship and Training).
- Served as a Convener, advertising committee, International Symposium on Prospects of Horticultural Industry in Pakistan from 28th -30th, March, 2007, organized by Institute of Horticultural Sciences and Higher Education Commission Islamabad at University of Agriculture, Faisalabad-Pakistan.
- Serving as Research Coordinator for Research work of different M.phil and Ph.D. students of Institute of Horticultural Sciences, University of Agriculture, and Faisalabad.
- 5 years Research work in Aybu Agricultural Research Centre Faisalabad.
- 30 students of MSc (Hons) Research work and help for thesis write up in UAF.
- Seven Ph.D. and 10 Msc students are supervised at UOH
- Serving as referee/reviewer of two Academic journals.
- Served as Horticulture expert in the meeting held at UAF with Baluchistan industries and all chairmen of Departments at UAF how income of farmers can be increased on 23/2/2013.
- Experts of isolation purification of bio compounds for infectious diseases

Research Papers

Research Paper:

Research Paper:

- 1 **Tauseef Tair, M. Mubashar, Naeem, Raheel Anwar, Waseem Ahmed. (2008).** Introduction of biological control in fruit orchards. Vol. 5 *July-September no.1 Horticulture Foundation of Pakistan.* PP. 26-29.
- 2 **Ahmed, W., Saeed Ahmed and Thira Abbas (2009).** An overview of mango varieties in Indian proceeding of National conference on measures to augment the production of quality mango varieties for local and foreign destinations Which was held on 4th June , 2009 at NARC Islamabad, Pakistan and Organized Horticulture Foundation of Pakistan. Pp. 29-44.

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- 3 **Ahmed, W., Ahmed S., Malik, A. U. and A. Rashid. 2013.** Determination and Comparison of harvest by traditional and modern methods on quality and storability of grape fruit. *Int. J. Biol. Biotech.* (4): 571-576. **(HEC approved)**
 - 4 **Ahmed, W., A. Saeed, Mailk, A.U. and A. Rashid. 2014.** Effects of pre harvest application of Methyl Jasmonate on fruit quality at harvest and during storage of grape fruit. *Post Harvest Biol. Technol.*, (Special Issue Accepted) Vol 22. **Impact (2.22)**
 - 5 **Ahmed, W., M. Raid. Ahmed S., Malik, A. U. and A. Rashid. 2014.** Pre harvest application of Methyl Jasmonate on fruit quality and antioxidant enzymes and phenolic compounds changes during postharvest storage of grapefruit. *Scientia Horticulture.* (Special issue Accepted). Vol 34. **Impact (1.99)**
 - 6 **Ahmed, W., Ahmed S., Malik, A. U and A Rashid. 2014.** Effects of Pre harvest application of Methyl Jasmonate on fruit quality and safety of phytochemical after storage of grapefruit. *Pakistan J. of Pharmaceutical Sci.*, page112-117.Issue 55. **Impact (0.99)**
 - 7 **Ahmed, W., Ahmed S., Malik, A. U and A Rashid. 2014.** Effects of pre-harvest spray of salicylic (SA) and Methyl Jasmonate (MeJA) on the physiological parameter and phytochemicals during the storage of grapefruit Cv. Ray Ruby. *New Zealand J. of Crop & Hort. Sci.*, Vol 32 issue 12 **Impact (0.95)**
 - 8 **Ahmed, W., Ahmed S., Liaquat A. and H. Imatiaz. 2015.** Effects of pre-harvest spray of salicylic (SA) and methyl jasmonate (MeJA) on the phytochemicals and physiological changes during the storage of grapefruit Cv. ray ruby. *Int. J. of Biosciences.* Vol. 6, No. 1, p. 269-282.
 - 9 **Ahmed, W., Ahmed S., Malik, A. U and A Rashid. 2015.** Harvesting times modulates the human health promoting substance in grapefruit. *Pak. J. Agri. Sci.*, Vol. 52(1), 395-403. **Impact (1.22)**
 - 10 **Ahmed W., Ahmed S., Malik, A. U and A Rashid. 2015.** Chitosan Potential Natural Compound to Maintain the Phytochemicals and Physiological Changes during Storage of Grape fruit cv. Ray Ruby. *Int. J. Hortic. E. Sci.*, Vol 55. Issue 2. **Impact (0.99)**
 - 11 **Ahmed W., Ahmed S., A. Rasheed. 2015.** Hot water treatments reduce chilling injury and maintain post-harvest quality in relation to physiological and enzymatic changes during storage of grapefruit. *European Journal of Biomedical and Pharmaceutical Sciences.* (Accepted). **Impact (2.062)**
 - 12 **Ahmed W., Ahmed S., A. Rasheed. 2015.** Pre harvest foliar application of Methyl Jasmonate on fruit quality and antioxidant enzymes and phenolic compounds changes during postharvest storage of grapefruit. *Journal plant physiology.* Vol. 54. **Impact (5.22.)**
 - 13 **Ahmed W., Ahmed S., A. Rasheed. 2015.** Anatomical characteristics and transverse sections of stems, roots and leaves of different rootstocks. *Journal of fruit.* (Review). **Impact (0.88)**
 - 14 **Ahmed W., Ahmed S., A. Rasheed. 2015.** Influence of Foliar Application of salicylic (SA) and Methyl Jasmonate (MeJA) on the bioactive compounds and physiological changes during storage life of grapefruit Cv. Shamber. *JAPS* (Accept). **Impact (0.58)**
 - 15 **Ahmed W., Ahmed S., A. Rasheed. 2015.** Pre harvest foliar application of Methyl Jasmonate on fruit quality and antioxidant enzymes and phenolic compounds changes during postharvest storage of grapefruit. *Int. J. of food Sci. and Tech.*, (Review). **Impact (0.95).**
 - 16 **Ahmed W., Ahmed S., A. Rasheed. 2015.** Comparative studies of tree and cold storage on Phytochemicals and physiological changes of grapefruit. *Post Harvest Biol. Technol.*, Vol. 44 issue 12. **Impact (2.22).**
 - 17 **Ahmed W., Ahmed S., A. Rasheed. 2015.** Development of new based chitosan-glucose and chitosan-citric complexes edible coating to improve grapefruit post-harvest quality. **Annals of Botany** (under progress) **Impact (5.22).**
 - 18 **Ahmed W., Ahmed S., A. Rasheed. 2015.** Comparative studies of tress and cold storage on the bioactive compound antioxants and fruit quality of grapefruit. *Scientia Horticulture.* (under progress) **Impact (1.99).**
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- 19 **Ahmed W., Ahmed S., A. Rasheed. 2015.** Influences of different maturity stages in aroma of the volatile compounds and total antioxidant activity of grapefruit. *Molecules. Impact (4.99).*
 - 20 **Ahmed W., Ahmed S., A. Rasheed. 2015.** Characterization of volatile compounds in the essential oil of grapefruit. *Chilean Journal of Agricultural Research. Vol. 33 issue 1 Impact (2.99).*
 - 21 **Ahmed, R. Ahmed, M. Liaquat, S. M. Khan, A. Farid, S. Ahmed. 2015.** Hot water treatments reduce chilling injury and maintain post-harvest quality in relation to physiological and enzymatic changes during storage of grapefruit. *EJBPS. 62-12*
 - 22 **Ahmed W., Ahmed S., A. Rasheed. 2015.** Characterization of Aroma Active Compounds in Fruit Juice and Peel Oil of grapefruit by GC-MS and GC-O. *Annals of Botany (under progress) Impact (5.22).*
 - 23 **W. Ahmed, R. Ahmed, M. Liaquat, S. M. Khan, A. Farid, S. Ahmed. 2015.** Pre Harvest Foliar Application of Methyl Jasmonate on Fruit Quality and Quality Enzymes and Phenolic Compounds Changes During Storage of Grapefruit. *Pak. J. Chem. 5(3): 1-12.*
 - 24 **Ahmed W., R. Azmat, M. Safeer K Abdul Qayyum, Ayaz Mehmood, Sami Ullah Khan¹ Zia- Shah Masuood Khan. 2017.** Pharmacological studies of *Adhatoda vasica* and *Calotropis procera* as resource of Bio-active compounds for various diseases. *Pak. J. of Pharm. Sci.*
 - 25 **W. Ahmed, R. Azmat, M. Safeer K Abdul Qayyum, Ayaz Mehmood, Sami Ullah Khan¹ Zia- Shah Masuood Khan. 2017.** Pharmacological studies of *Adhatoda vasica* and *Calotropis procera* as resource of Bio-active compounds for various diseases. *Pak. J. of Pharm. Sci. Vol 43.*
 - 26 **W. Ahmed, R. Azmat, Abdul Qayyum, Ayaz Mehmood, Sami Ullah Khan¹ Zia- Shah Masuood Khan. 2017.** Pharmacological studies of *Adhatoda vasica* and *Calotropis procera* as resource of Bio-active compounds for various diseases. *Int. J. of Phar. Vol 53.*
 - 27 **Azmat Sumeira M. Ailyan S. Neelofer H. A., Khursheed and W. Ahmed. 2017.** New Prospective for Enhancement in Bioenergy Resources through Fungal Engineering. *Recent Patents on Biotechnology. Recent Patents on Biotechnology, 2017, Vol. 11, No. 3. (Patent)*
 - 28 **W. Ahmed, R. Azmat, S.M. Khan, M.S. Khan, A. Qayyum, A. Mehmood, S.U. Khan and I. Hussain. 2018.** Pharmacological studies of *Adhatoda vasica* and *Calotropis procera* as resource of Bio-active compounds for various diseases. *Pakistan Journal of Pharmaceutical Sciences 31(5):1975-1983 (I.F = 0.649)*
 - 29 **W. Ahmed, R. Azmat, S.U. Khan, S.M. Khan, M. Liaquat, A. Qayyum and A. Mehmood. 2018.** Pharmacological studies of isolated compounds from *Adhatoda vasica* and *Calotropis procera* as an antioxidant and antimicrobial bioactive sources. *Pakistan Journal of Botany. 50(6):2363-2367 (I.F = 0.690)*
 - 30 **W. Ahmed, R. Azmat, A. Qayyum, A. Mehmood, S.M. Khan, M. Liaquat, S. Ahmed and S. Ahmed. 2018.** The Role of Chitosan to Prolonged the Fresh Fruit Quality During Storage of Grapefruit CV. Ray Ruby. *Pakistan Journal of Botany. 50(1):151-159. (I.F = 0.690)*
 - 31 **A. Mehmood, M.S. Akhtar, S. Rukh, M. Imran, A. Hassan, K.S. Abbasi, A. Qayyum, T. Mahmood, W. Ahmed, K. Shahazad, A. Khan, Z. Ahmad. 2018.** Soil organic carbon stock variation with climate and land use in shale derived soils. *Journal of the Serbian Chemical Society. 83(6):785-793 (I.F = 0.822)*
 - 32 **A. Qayyum, A. Razzaq, Y. Bibi, S.U. Khan, K.S. Abbasi, A. Sher, A. Mehmood, W. Ahmed, I. Mahmood, A. Manaf, A. Khan and A. Farid and M.A. Jenks. 2018.** Water Stress Effects on Biochemical Traits and Antioxidant Activities of Wheat (*Triticum aestivum* L.) Under *In vitro* Conditions. *Acta Agriculturae Scandinavica, Section B - Plant Soil Science 68(4):283-290. doi.org/10.1080/09064710.2017.1395064 (I.F = 0.651) (Corresponding Author)*
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- 33 **W. Ahmed**, R. Azmat, S.U. Khan, S.M. Khan, M. Liaquat, A. Qayyum and A. Mehmood. 2018. Isolated compounds from *Adhatoda vasica* and *Calotropis procera* as an antioxidant and antimicrobial bioactive sources. *Journal of botany* 50(6):2363-2366 (I.F = 3.12)
 - 34 T. Mahmood, T. Masud, A. Qayyum, A. Mehmood, W. Ahmed, M. Liaquat, M. J. Tareen, S.U. Khan and S. Ali. 2019. Functional and technological attributes of probiotic yoghurt prepared with Dahi microflora during refrigerated storage. *Food Science and Technology Campinas*. 39(2): 267-273 DOI: <https://doi.org/10.1590/fst.12317> (I.F = 1.084).
 - 35 W. Ahmed, R. Azmat, **A. Qayyum**, S.U. Khan, S.M. Khan, S. Ahmed and S. Moin. 2019. Extraction of diverse polyphenols in relation with storage periods of *Citrus paradisi* CV. Shamber through HPLC–DAD technique using different solvent. *Journal of Food Science and Technology*. 56(1):384-390 <https://doi.org/10.1007/s13197-018-3499-x> (I.F = 1.797).
 - 36 T. Mehmood, S.U. Khan, **A. Qayyum**, A.R. Gurmani, W. Ahmed, M. Liaquat and A. Farid. 2018. Evaluation of Organic and Inorganic Mulching as an Integrated Weed Management Strategy in Maize under Rainfed Conditions. *Planta Daninha* Doi: 10.1590/S0100-83582018360100143 (I.F = 0.544) (Corresponding Author).
 - 37 W. Ahmed, R. Azmat, S.U. Khan, S.M. Khan, M. Liaquat, A. Qayyum and A. Mehmood. 2018. Pharmacological studies of isolated compounds from *Adhatoda vasica* and *Calotropis procera* as an antioxidant and antimicrobial bioactive sources. *Pakistan Journal of Botany*. 50(6):2363-2367 (I.F = 0.690).
 - 38 W. Ahmed, R. Azmat, S.U. Khan, S.M. Khan, M. Liaquat, A. Qayyum and A. Mehmood. 2021. The analysis of new higher operative bioactive compounds and chemical functional group from herbal plants through UF-HPLC-DAD and Fourier transform infrared spectroscopy methods and their biological activity with antioxidant potential process as future green chemical assay *Arabian Journal of Chemistry* 14, 102935 (IF 4.09).
 - 39 Naz, S., S. Alam, W. Ahmad, S.M. Khan, **A. Qayyum**, M. Sabir, A. Naz, A. Iqbal, Y. Bibi, S. Nisa, A.S. Khalifa, A.F. Gharib and A.E. Askary. 2021. Inhibition of Multi-Drug Resistant *Salmonella enterica* serovar Typhi by Selected Plant Extracts Along With Their Phytochemicals. *Saudi Journal of Biological Sciences* (I.F = 4.219)
 - 40 Zada, S., S. Alam, S.A. Ayoubi, Q. Shakeela, S. Nisa, Z. Niaz, I. Khan, W. Ahmed, Y. Bibi, S. Ahmed and **A. Qayyum**. 2021. Biological Transformation of Zearalenone by Some Bacterial Isolates Associated with Ruminant and Food Samples. *Toxins* 13 (10), 712; <https://doi.org/10.3390/toxins13100712> (I.F = 4.546) (Corresponding Author)
 - 41 Tareen, M.J., X. Wang, I. Ali, Y. Bibi, M.N. Tareen, S. Fiaz, R. Shahzad, W. Ahmed and **A. Qayyum**. 2021. Influence of Scion/Rootstock Reciprocal Effects on Post-harvest and Metabolomics Regulation in Stored Peaches. *Saudi Journal of Biological Sciences* <https://doi.org/10.1016/j.sjbs.2021.09.011> (I.F = 4.219)
 - 42 Ishaque, M., Y. Bibi, S. Masood, S.A. Ayoubi, A. Qayyum, S. Nisa and W. Ahmed. 2021. Xanthone C-Glycosides Isomers from *Dryopteris ramosa* Having Bactericidal and Cytotoxic Possessions. *Saudi Journal of Biological Sciences* <https://doi.org/10.1016/j.sjbs.2021.09.047> (I.F = 4.219) (Corresponding Author)
 - 43 Zahara, K., Y. Bibi, S. Masood, S. Nisa, **A. Qayyum**, M. Ishaque, K. Shahzad, W. Ahmed, Z.H. Shah, H. Alsamadany, S.H. Yang and G. Chung. 2021. Using HPLC–DAD and GC–MS Analysis Isolation
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and Identification of Anticandida Compounds from Gui Zhen Cao Herbs (Genus *Bidens*): An Important Chinese Medicinal Formulation. *Molecules* 26(19):5820. <https://doi.org/10.3390/molecules26195820> (I.F = 4.411) (Corresponding Author)

- 44 Ali, I, X. Wang, M.J. Tareen, F.M. Wattoo, **A. Qayyum**, M.U Hassan, M. Shafique, M. Liaquat, S. Asghar, T. Hussain, S. Fiaz and W. Ahmed. 2021. Foliar Application of Salicylic Acid at Different Phenological Stages of Peach Fruit CV. ‘Flordaking’ Improves Harvest Quality and Reduces Chilling Injury during Low Temperature Storage. *Plants* 10(10), 1981; <https://doi.org/10.3390/plants10101981> (I.F = 3.935)
- 45 Nisa, S., M. Shoukat, Y. Bibi, S.A. Ayoubi, W. Shah, S. Masood, M. Sabir, W. Ahmed S.A. Bano and A. Qayyum. 2021. Therapeutic Prospects of Endophytic *Bacillus* species from *Berberis lycium* against Oxidative Stress and Microbial Pathogens. *Saudi Journal of Biological Sciences* <https://doi.org/10.1016/j.sjbs.2021.08.099> (I.F = 4.219)
- 46 Sardar, M., W. Ahmed, S.A. Ayoubi, S. Nisa, Y. Bibi, M. Sabir, M.M. Khan, W. Ahmed and **A. Qayyum**. 2021. Fungicidal Synergistic Effect of Biogenically Synthesized Zinc Oxide and Copper Oxide Nanoparticles Against *Alternaria citri* Causing Citrus Black Rot Disease. *Saudi Journal of Biological Sciences* <https://doi.org/10.1016/j.sjbs.2021.08.067> (I.F = 4.219) (Corresponding Author)
- 47 Noureen, H., S. Alam, S.A. Ayoubi, **A. Qayyum**, S. Sadiqi, S. Atiq, A. Naz, Y. Bibi, W. Ahmed, M.M. Khan, S. Sammi, M. Liaquat and S. Ahmad. 2021. Mechanism of Rice Bran Lipase Inhibition through Fermentation Activity of Probiotic Bacteria. *Saudi Journal of Biological Sciences* 28(10):5841-5848 <https://doi.org/10.1016/j.sjbs.2021.06.042> (I.F = 2.802) (Corresponding Author)
- 48 Hussain, N., T. Mahmood, M. Liaquat, N. Safdar, W. Ahmed, **A. Qayyum**, K.S. Abbasi and M. Imran. 2021. Rheometry Nutrition and Gluten Microstructure Trends in Wheat Cultivars. *Food Science and Technology*. <https://doi.org/10.1590/fst.60920> (I.F = 1.443)
- 49 Ahmed, W., R. Azmant, A. Mehmood, R. Ahmed, M. Liaquat, S.U. Khan, **A. Qayyum**, S.M. Khan. 2021. Comparison of storability and seasonal changes on new flavonoids, polyphenolic acids and terpenoid compounds of *Citrus paradisi* (grapefruit) cv. shamber through advance methods. *Journal of Food Measurement and Characterization*. 15(4): 2915-2921 <https://doi.org/10.1007/s11694-021-00815-y> (I.F = 1.648)
- 50 Ahmed, W., R. Azmat, A. Mehmood, **A. Qayyum**, R. Ahmed, S.U. Khan, M. Liaquat, S. Naz and S. Ahmad. 2021. The analysis of new higher operative bioactive compounds and chemical functional group from herbal plants through UF-HPLC-DAD and Fourier transform infrared spectroscopy methods and their biological activity with antioxidant potential process as future green chemical assay. *Arabian Journal of Chemistry* 14(2): 102935 <https://doi.org/10.1016/j.arabjc.2020.102935> (I.F = 4.762)

More than 130 publications in Impact-factor journals

Impact factor is 900

H index is 70

Recently papers are submitted in various journals

Recently papers are accepted papers in various journals

1. Remediation of heat stress induced modifications through the application of Nitrogen and Phosphorous in relation with the phytochemical study of *Calendula officinalis* L. flowers. (HR 5.21
2. Diterpenoids and Secomeliacins as source of bioactive films with combination of Neem and Dharek solutions on phytochemicals enzymes, essential bioactive compounds of Apple (Golden Delicious methods of antioxidants activities with new design and development of an (UF-LC/MS) methods of binding assay of herbals. (Analytical Methods) 3.44
3. Influence of seasonal variations and harvesting times on flavonoids, polyphenolic acids and carotenoids compounds of *Citrus paradisi* (grapefruit) cv. Shamber through advanced analytical methods (FS) 2.11
4. Protocol development of LC-Q-TOF-MS and UF-HPLC techniques coupled with fingerprinting methods for rapid investigation of various structural flavonoids and essential phytosterols in *Citrus paradisi* (Shamber) (Food Chemistry) 4.11
5. Rapid analysis of flavonoids and phytosterols in *Citrus paradisi* (Shamber) through Protocol development of LC-Q-TOF-MS and UF-HPLC techniques coupled with fingerprinting methods (Phytochemistry) 3.11
6. Effects of various harvesting times on bioactive compound in *citrus paradisi* (Shamber) (PJB)
7. Modified and new potential methods of antioxidant activity and free radicals activity from *Adhatoda vasica* and *Calotropis procera* of herbal plants (Nature of medicines) 39.1
8. Favonoids and phytosterols in *Citrus paradisi* (Shamber) (JC) Remediation of heat stress induced modifications through the application of Nitrogen and Phosphorous in relation with the phytochemical study of *Calendula officinalis* L. flowers. (JAPS) (0.167)
9. New Chemicals Compounds of Oxy-Heterocyclic, Aliphatic and Tannins Derivatives from Herbal Plants as Source of Various Drugs JNPR 2.56
10. Efficiency of innovative methods of HPLC in new metabolites bioavailability of *Adhatoda vasica* and *Calotropis procera* as a source of new antibacterial drugs JNPR 2.56
11. Favonoids and phytosterols in *Citrus paradisi* (Shamber) (JC)

20 papers submitted in journals

Patents

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1. **Rafia Azmat**, Sumeira Moin, Ailyan Saleem, Neelofer Hamid, Anum Khrusheed , **Wasseem Ahmed** . New Prospective for Enhancement in Bioenergy Resources through Fungal Engineering. *Recent Patent in Biotechnology* 12(1):65-76, **(2018)**.
 2. Sumeria Moin, Rafia Azmat, Zamil Mateen, Adil Ahmed and **Waseem Ahmed**: An innovative method for the restoration of electrical conductivity and pH of metal contaminated soil Patent Application No.**688/2020**.
 3. **Waseem Ahmed, Rafia Azmat**, Protocol development of LC-Q-TOF-MS and UF-HPLC techniques coupled with fingerprinting methods for rapid investigation of various structural flavonoids and essential phytosterols in *Citrus paradisi* (Shamber) (123/NUS/2020)

Reviewers

- HEC Project Reviewer (15)
- PSF project Reviewer (9)
- Ph.D./MS Thesis NUS, CU, TU
- International Journals; Journals of like Hazardous Material/Chemical Kinetics
- Editor ANST
- Reviewers of various committee of journals

Students Supervisions

- International Ph.D. 03
- Ph.D. Supervision in Pak 03
- MSc (Hons) completed students 14
- MSc (Hons) completed co supervision 12
- MSc (Hons) completed co supervision 12 other departments
- BSc completed students 30
- Co Supervision 12

Projects work

- Collection and Establishment of Germplasm Unit (GPU) of Fruit Plants and Medicinal at Square No. 32 (1/3/2009 to 28/2/2012: three years). Endowment Fund UAF. **Completed**
 - Establishment of Herbal garden by ALP project Fund UAF **Completed**
 - Establishment of Demonstration Orchard for Transfer of Technology to the Growers at PARS
-

(1/3/2009 to 30/5/2012: 39 months). Endowment Fund UAF. **Completed**

- Certified Seed Production of Vegetables (Carrot, Radish and Okra) 1/6/2009 to 31/10/2012 (39 months). **Completed**
- Demonstration/dissemination of promising Ber cultivars in marginal land in Distt. Faisalabad (Punjab). Endowment Fund UAF. **Completed**
- Demonstration of Resources Utilization efficiency for citrus and mango plants under drip irrigation at PARS. Endowment Fund UAF. **Completed**
- Ethno pharmacological approaches to estimate the Phenolic Compounds, Antioxidant Activity and Bioactive compounds of some selected medical plants used in Kanpur Valley. SGRP HEC. (PI) **Completed**
- Project Title: Fungal and ethylene induced modifications process in promising commercial cut flowers for export, Reference research project No: NRPU- 14414 6.5 M (PI) **till**
- Biomedical approaches and redox reaction in medicine formulation in Bangkok **till**
- Isolation purification of biomedical compounds in tumor activity, Pakistan medical council
- Project food additives and advance food materials Japan **till started**
- Mega project for construction and developmental process of export orient cut flower at Bangkok started ----- **till started**
- Land and design started in Japan **till started**
- Singapore and its land features and design started **till started**

CONFERENCE ORGINZED AT UOH

1. Organized (Principal Organizer) 1st International Conference on “Agricultural and Biological Sciences” Focusing Food Security and Climate Change at The University of Haripur, Haripur-Pakistan from 27-30 March, 2019.
2. Organized (Principal Organizer) the National Symposium on "Soil Plant Water Interaction for Orchards Management under Changing Climate" at The University of Haripur, May 09-11, 2018.
3. Organized International conference at biomaterials at Chula University Bangkok 2019

TRAINING ORGINZED AT UOH

Sr. No	Date of training	Training/ workshop title	Organized By
1.	Oct 20, 2015.	Propagation Techniques in Some Selected Fruit Plants	Dr. Waseem Ahmed
2.	29, Dec 2015	Onion Seed Production	Dr. Waseem Ahmed
3.	Oct 19, 2016	Introduction of Domestic processing of fruits and vegetables	Dr. Waseem Ahmed
4.	23, Feb 2016	Mushroom Production Technology	Dr. Waseem Ahmed
5.	16,11,2016	One-day training on Rodents and Porcupine Controlling in Agricultural Crops	Dr. Waseem Ahmed
6.	28-4-2016	Controlling wild boar in Agricultural crops	Dr. Waseem Ahmed
7.	16-2-2017	Mushroom Production Technology	Dr. Waseem Ahmed
8.	12/28/2016	Ikebaba Flower Arrangement"	Dr. Waseem Ahmed

Foreign projects

1. Different Projects and management of dates sector in Daily Green 2507 Co., Ltd. 214/2 M.6 Chiang Mai-Doi Saket Road Sansainoi Sub-district, Sansai District Chiang Mai, and Thailand 50210.
2. Exploration of local and exotic varieties for Thailand's climate Daily Green 2507 Co., Ltd. 214/2 M.6 Chiang Mai-Doi Saket Road Sansainoi Sub-district, Sansai District Chiang Mai, and Thailand 50210
3. Value addition of date fruit by different organic based method Daily Green 2507 Co., Ltd. 214/2 M.6 Chiang Mai-Doi Saket Road Sansainoi Sub-district, Sansai District Chiang Mai, and Thailand 50210.
4. Isolation of bioactive compounds and drugs discoveries in Tumor lines funded by USA.
5. Collaboration with USA, UK and Oman for medical projects.