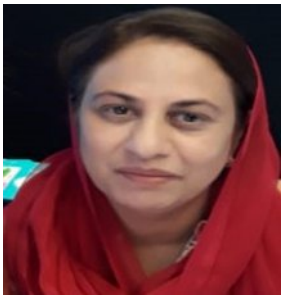
RESUME OF

Sobia Chohan, PhD

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Academic Record

- **2011- 2016** **Doctor of Philosophy: Plant Pathology**

  Bahauddin Zakariya University, Multan. Pakistan

  Research Thesis Title: Antifungal activity and phytochemical analysis of various medicinal plants against pathogenic fungi of Tomato (*Lycopersicon esculentum* L.).
  Research Laboratory: Department of Plant Pathology, Faculty of Agricultural Science and Technology, Bahauddin Zakariya University, Multan. Pakistan

- **1992-1994** **Master of Science (Hons): Agriculture (Plant Pathology)**
  University of Agriculture, Faisalabad. Pakistan

  Research Report Title: Some physiological studies on *Phytophthora nicotianae* var. *parasitica*, the cause of root rot/collar rot of brinjal with special reference to its control
  Research Laboratory: Department of Plant Pathology, University of Agriculture, Faisalabad.

- **1988-1992** **Bachelor of Science (Hons): Agriculture (Plant Pathology)**
  University of Agriculture, Faisalabad, Pakistan

Employment Record

Designation	Department/ Organization	Scale /Grade	Duration		Responsibilities
			From	To	
Chairperson	Department of Plant Pathology, FAST, Bahauddin Zakariya University Multan	BPS-21	16-1.2023	18.1.2026	Administrative duties
Professor	Department of Plant Pathology, FAST, Bahauddin Zakariya University Multan	BPS-21	25-7-2022	To-Date	Teaching and Research
Associate Professor	Department of Plant Pathology, FAST, Bahauddin Zakariya University Multan	BPS-20	14-12-2018	24-7-2022	Teaching and Research
Assistant Professor	Department of Plant Pathology, FAST, Bahauddin Zakariya University Multan	BPS-19	29-12-2011	13-12-2018	Teaching and Research
Lecturer	Department of Plant Pathology, FAST, Bahauddin Zakariya University Multan	BPS-18	14-04-2006	28-12-2011	Teaching and Research
Lecturer	PMAS-Arid Agriculture University, Rawalpindi	BPS-17	18-02-2006	13-04-2006	Teaching and Research
Scientific Officer **(On Deputation)**	Pakistan Agriculture Research Council (PARC) sub-station, BZU, Multan	BPS-17	21-02-2004	17-02-2006	Research
Lecturer	PMAS-Arid Agriculture University, Rawalpindi	BPS-17	12-10-1996	20-02-2004	Teaching and Research

Distinctions:

- **Higher Education Commission (HEC) approved supervisor Ref.HEC/HRD/ASA/2019/33937**

- **Won Travel Award funded by HEC to participate in International Conference on Veterinary, Agriculture and Life Sciences (ICVALS), October 26-29' 2018 Antalya, Turkey.**

Publications:

Total Impact Factor: 34.86

First author: 11 Corresponding author: 19

Journal Articles:

1. Hafiz Muhammad Saqib, **Sobia Chohan,** Muhammad Abid* 2026. Protective biological control of chickpea blight disease by enhancing plant immunity through seed priming and foliar spraying with Cuminum cyminum essential oil. Journal of Plant Pathology. 108:559-574 (**Impact Factor 2.6)**
2. Hafiz Muhammad Saqib, **Sobia Chohan**, Muhammad Azeem, Muhammad Farhan-Ul-Haque, Muhammad Abid*. 2025. Harnessing Cuminum cyminum L. (cumin) essential oil as a promising biocontrol agent against Ascochyta rabiei: Insights from screening and in planta evaluation. South African Journal of Botany 183 (2025) 147 157. **(Impact Factor 2.7)**
3. Hafiz Muhammad Saqib, **Sobia Chohan*,** Muhammad Abid. 2024. **T**he magnitude of Ascochyta blight of chickpea and its relationship with prevailing environmental conditions in the Thal region of Punjab, Pakistan. Plant Protection, 08 (04). 769-779. **(Hec Approved-X-category)**
4. Muzamil Afzal, **Sobia Chohan**, Anam Moosa, Javaria Malik, Tahir Mahmood. 2024. Epidemiological Insights into Mango Anthracnose Disease Invited by Colletotrichum gloeosporioides. Journal of Agriculture and Veterinary Science. 3(2) 277-285. **(Hec Approved-Y-category)**
5. Muhae-Ud-Din, G., Kalsoom, R., Yang, Z. **Sobia Chohan***, Muhammad Saleem Haider, Dildar Ahmad, Muhammad Abid. 2024. Identification of Alternaria species associated with purple blotch disease of onions in Southern Punjab of Pakistan and evaluation of plant-based fungicides for disease control. Tropical plant pathology. 49(05) 601-611**(Impact Factor 1.9)**
6. Hafiz Muhammad Riaz, **Sobia Chohan**, Gary Y. Yuen, Muhammad Abid. 2024. Biological control of tomato early blight in Pakistan using local rhizobacteria. Pest management science.80(3) 1412-1422. **(Impact Factor 4.46)**
7. Naila Akram, Rashida Perveen, Ummad-ud-Din Umar, **Sobia Chohan**, Muhammad Abid. 2023. Exogenous Application of Plant Extracts and Salicylic Acid to Mitigate Cucumber Mosaic Virus and Aphid Population in Cucumber. Plant Health. 02 (01) 27-37 **(Hec Approved-Y-category)**
8. Ahmad R. Alvi, **Sobia Chohan***, Muhammad Abid, Muhammad T. Malik, Hafiz M. Riaz, Sana Mudassar. 2022. Flower induction and control of inflorescence diseases in mangoes using selected fungicides and chemical fertilizers. International Journal of Phytopathology. 11 (01) 01-08 **(Hec Approved-X-category)**
9. Muhammad Rashid, **Sobia Chohan*,** Muhammad Sajid, Shehzad Iqbal, Mustansar Mubeen, Muhammad Mehtab, Ammara Farooq, Aqleem Abbas, Zaheer Khalid, Munawar Saeed and Iqra Mubeen. 2022. Biochemical Characterization and effect of Bacterial Blight on Micro and Macro nutrient concentration in Pomegranate. Plant Cell Biotechnology and Molecular Biology 23(3&4):57-68. **(Impact Factor 0.38)**

10. Hafiz Arslan Anwaar, Rashida Perveen, **Sobia Chohan**, Amjad Saeed, Muqaddas Tanveer cheema, Abdul Qadeer, Umer Ayyaz Aslam, Muhammad Zeshan Ahmed, Mohsin Alam, Muhammad Subhan Shafique and Amjad Ali. 2021. First report of *Alternaria alternata* causing Alternaria leaf spot of Fig in Pakistan. Plant Disease Notes. 106(2):759. **(Impact Factor 3.02)**
11. Suryyia Manzoor, Ghazala Yasmin, Nadeem Raza, Javier Fernandez, Rashida Atiq, **Sobia Chohan**, Ayesha Iqbal, Shamaila Manzoor*, Barizah Malik, Franz Winter and Mudassar Azam. 2021. Synthesis of Polyaniline Coated Magnesium and Cobalt Oxide Nanoparticles through Eco-Friendly Approach and Their Application as Antifungal Agents. Polymers.13(16): 1-14**.(IF 4.9)**
12. H. M. Riaz, **Sobia Chohan** and Muhammad Abid. 2021. Occurrence of tomato early blight disease and associated Alternaria species in Punjab, Pakistan. The Journal of Animal & Plant Sciences. 31(05): https://doi.org/10.36899/JAPS.2021.5.0337 (**Impact Factor 0.481**)
13. Hafiz M. Saqib, Muhammad Abid, **Sobia Chohan*.** 2020. Chemical management of alternaria leaf blight of sunflower. International Journal of Phytopathology. 09 (03) 2020. 173-178 **(Hec approved-Y Category)**
14. Muhammad N. Shahid, Muhammad Abid, **Sobia Chohan**, Muhammad Binyameen, Muhammad Sajid. 2020. Impact of farm management practices on downy mildew disease of cucumber in high tunnels. International Journal of Phytopathology 09 (03) 2020. 179-186 **(Hec approved-Y Category)**
15. Rabia Kalsoom, **Sobia Chohan***, Muhammad Saleem Haider. 2020. Phytochemical analysis and antifungal activity of some medicinal plants against Alternaria specie isolated from onion. The Journal of Animal & Plant Sciences. 30(02): 454-460. **(Impact Factor 0.529)**
16. Saba Idrees, **Sobia Chohan***, Muhammad Abid, Rashida Perveen, Muhammad Tariq Malik. 2019. Biological potential of Trichoderma species in the control of some phytopathogenic fungi. Pakistan Journal of Phytopathology. 31 (02): 201-206.
17. Rabia Kalsoom, **Sobia Chohan***, Muhammad Saleem Haider, Muhammad Abid. 2019. Synergistic effect of plant extracts and fungicide against purple blotch disease of onion. Plant Protection. 03 (01): 53-57.
18. Muhammad Anees, Muhammad Abid, **Sobia Chohan**, Muhammad Jamil, Nadeem Ahmed, Lixin Zhang and Eui Shik Rha. 2019. In situ Impact of the Antagonistic Fungal Strain, *Trichoderma gamsii* T30 on the Plant Pathogenic Fungus, *Rhizoctonia solani* in Soil. Polish Journal of Microbiology. 68(02): 211–216 (**Impact Factor 0.776 / 5-year 1.013)**
19. **Sobia Chohan**, Rashida Perveen, Muhammad Anees, Muhammad Azeem, Muhammad Abid. 2019. Estimation of secondary metabolites of indigenous medicinal plant extracts and their in vitro and in vivo efficacy against tomato early blight disease in Pakistan. Journal of Plant Diseases and Protection. 126(06): 553-563 **(Impact Factor 0.946**)
20. Muhammad Abid, **Sobia Chohan***, Rashida Perveen and Muhammad Anees. 2019. First report of Bitter Rot of Apple Caused by *Colletotrichum siamense* in Pakistan. Plant Disease Notes. 103(3):583. **(Impact Factor 3.02)**
21. Rabia Kalsoom, Saleem Ahmed, Muhammad Nadeem, **Sobia Chohan** and Muhammad Abid. 2019. Biosynthesis and extraction of cellulase produced by Trichoderma on agro-

wastes. International Journal of Environmental Science and Technology. 16(2), 921-928 **(Impact Factor 2.037)**

22. **Sobia Chohan** and Muhammad Abid. 2019. First report of *Fusarium incarnatum-equiseti* species complex associated with Boll Rot of Cotton in Pakistan. Plant Disease Notes. 103(01):151. **(Impact Factor 3.02)**
23. Muhammad Sajid, Abdul Rashid, Muhammad Abid, Humaira Jamil, Muhammad R. Bashir, Zahid M. Sarwar, Rashida Perveen, **Sobia Chohan**. 2018. Influence of BT. Cotton germplasm on bacterial blight disease of cotton in Pakistan. Pakistan Journal of Phytopathology, 30 (02). 145-148.
24. Muhammad Abid, **Sobia Chohan***, Shazia Akram, Rizwan Mustafa Shah, Sabir Hussain, Muhammad Binyameen, Sarfraz Ali Shad, Rashida Perveen. 2018. Fungal diversity and frequency carried by house fly (*Musca domestica* L) and their relation with stored grains in rural areas of Pakistan. Journal of Food Safety. 38(5):1-7. DOI: 10.1111/jfs.12508 **(Impact Factor 1.7)**
25. Mirza A. Mehmood, Rashida Perveen, **Sobia Chohan**, Muhammad Ishtiaq, Muhammad M. Ahmed, Muhammad Shaaban, Aneela Younas, Hafsa Umer, Naila Akram, Muhammad Abid, Muhammad Sajid. 2018. Epidemiological studies of tomato leaf curl virus and whitefly population and their management using botanicals. Pakistan Journal of Phytopathology. 30 (01): 27-36.
26. Riaz, Hafiz Muhammad, Muhammad Abid, **Sobia Chohan**, and Gary Y. Yuen. 2018. Survey on the importance of early blight disease of tomato in Punjab, Pakistan. In PHYTOPATHOLOGY.108(12) 34-34.
27. Safina Naz, Muhammad Akbar Anjum, Saeed Akhtar, Syed Atif Hasan Naqvi, **Sobia Chohan,** MA Zulfiqar. 2018. Effect of different irrigation sources on proximate composition and heavy metals uptake in some selected vegetables. Pakistan Journal of Agricultural Research. 31(4) 336-346
28. Muhammad Sajid, Shahbaz Talib Sahi, Muhammad Atiq, Muhammad Abid, Abdul Rashid, Muhammad Rizwan Bashir, Humaira Jamil, Rashida Perveen, **Sobia Chohan** and Zahid Mahmood Sarwar. 2018. Alteration in ionic contents profiling of cotton due to bacterial blight disease caused by *Xanthomonas citri* pv. *malvacearum*. Pakistan Journal of Agricultural Sciences. 55(04): 881-887. **(Impact Factor 0.6).**
29. **Sobia Chohan**, Shazia Akram, Anam Tariq, Rizwan Mustafa Shah, Muhammad Binyameen, Sarfraz Ali Shad, Muhammad Abid. 2018. Influence of Frequently Used Chemical Insecticides on Mycoflora Carried by Common Housefly, *Musca domestica* L. International Microbiology. 21(03): 121-128. **(Impact Factor 0.796)**
30. Muhammad Irfan, Syed A. H. Naqvi, Rashida Perveen, Farah Naz, Ammarah Hasnain, **Sobia Chohan**. 2017. A case study for the occurrence of bacterial leaf spot of mango in punjab (Pakistan). Pakistan Journal of Phytopathology. 29(02): 247-256.
31. Muhammad Sajid, Abdul Rashid, Muhammad R. Bashir, Muhammad A. Zeeshan, Muhammad Abid, Rashida Parveen, **Sobia Chohan**, and Humaira Jamil. 2017. Evaluation of available genetic resource against bacterial blight of cotton in Pakistan. Pakistan Journal of Phytopathology. 29(01): 63-68.
32. **Sobia Chohan*,** Rashida Perveen, Muhammad Abid, Atif Hassan Naqvi, and Safina Naz. 2017. Management of seed borne fungal diseases of tomato: a review. Pakistan Journal of Phytopathology, 29(01):193-200.
33. Muhammad Abid, **Sobia Chohan***, Mirza Abid Mehmood, Safina Naz, and Syed Atif Hassan Naqvi. 2017. Antifungal Potential of Indigenous Medicinal Plants against Myrothecium Leaf Spot of Bitter Gourd (*Momordica charantia* L.). Brazilian Archives of Biology and Technology. 60: e17160395, January-December 2017

http://dx.doi.org/10.190/1678-4324-2017160395 ISSN 1678-4324 Online Edition **(Impact Factor 0.644)**

34. Bushra Ashiq, **Sobia Chohan***, Rashida Perveen, Muhammad Abid and Mirza Abid Mehmood. 2017. Chemical composition and antifungal potential of medicinal plants against seedborne mycoflora of eggplant (*Solanum melongena L.*). Acta Botanica Croatica. 76(1): 72-79 (**Impact Factor 0.734)**
35. Syed Atif Hasan Naqvi, Rashida Perveen, Ummad-Ud-Din Umar, Ateeq-Ur-Rehman, **Sobia Chohan** and Syed Hasnain Abbas. 2016. Bacterial leaf blight of rice: a disease forecasting model based on meteorological factors in Multan, Pakistan. Journal of Agricultural Research. 54(4):707-718. **(Hec approved-Y Category)**
36. Syed Atif Hasan Naqvi, Rashida Perveen, Ummad-Ud-Din Umar, Muhammad Abid, **Sobia Chohan** and Ammara Hasnain. 2016. Effectiveness of YSCNA modified culture medium for luxurious growth of *Xanthomonas oryzae* pv. *oryzae* associated with rice plants. Pakistan Journal of Phytopathology. 28(02):263-268. **(Hec approved-Y Category)**
37. **Sobia Chohan*,** Rashida Perveen, Mirza Abid Mahmood and Ateeq-Ur-Rehman. 2016. Fungi colonizing different parts of tomato plant (*Lycopersicon lycopersicum (*L.) Karst. in Pakistan. Pakistan Journal of Phytopathology. 28(01):25-33. **(Hec approved-Y Category)**
38. Syed Atif Hassan Naqvi, Rashida Perveen, Ateeq-Ur-Rehman, Tiyyabah Khan, Muhammad Tariq Malik, **Sobia Chohan**, Anam Tariq, Shazia Malik and Syed Hassnain Abbas. 2016. Outbreak of Bacterial Apical Necrosis of Mango in Multan, Punjab, Pakistan. Pakistan Journal of Phytopathology.28(1): 107-113. **(Hec approved-Y Category)**
39. **Sobia Chohan*** and Rashida Perveen. 2015. Phytochemical Analysis and Antifungal Efficacy of Rhizome Extracts of various plants against Fusarium Wilt and Root Rot of Tomato. International Journal of Agriculture and Biology. 17(6): 1193-1199. **(Impact Factor 0.758)**
40. Syed Atif Hasan Naqvi, Rashida Perveen and **Sobia Chohan.** 2015. Evaluation of Virulence of Xanthomonas oryzae pv. oryzae against Rice Genotypes. International Journal of Agriculture and Biology. 17(6): 1186-1192. **(Impact Factor 0.758)**
41. Muhammad Adnan, **Sobia Chohan*,** Rashida Perveen, Mirza A. Mehmood, Safina Naz, Rizwan Hameed. 2015. Chemotherapy of Black Scurf of Potato through tuber treatment. Pakistan Journal of Phytopathology. 27 (01):1-6. **(Hec approved-Y Category)**
42. **Sobia Chohan*,** Rashida Perveen, Mirza Abid Mehmood, Safina Naz and Naila Akram. 2015. Morpho-physiological studies, management and screening of tomato germplasm against *Alternaria solani*, the causal agent of tomato early blight. International Journal of Agriculture and Biology. 17: 111–118. **(Impact Factor 0.902)**
43. Hina Nazir Ahmad, Rashida Perveen**, Sobia Chohan,** Ghazala Yasmeen, Mirza Abid Mehmood. 2014. Screening of Canola germplasm against *Albugo candida* and its epidemiological studies. Pakistan Journal of Phytopathology. 26 (02):169-173. **(Hec approved-Y Category)**
44. Safina Naz, Muhammad Akbar Anjum, **Sobia Chohan**, Saeed Akhtar and Bushra Siddique. 2014. Physico-chemical and sensory profiling of promising mango cultivars grown in peri-urban areas of Multan, Pakistan. Pakistan Journal of Botany. 46 (1): 191-198. **(Impact Factor 1.207)**
45. Owais Malik**, Sobia Chohan** and Syed Atif Hasan Naqvi**.** 2014. Occurrence of Black Scurf Disease of Potato in Multan(Punjab)Alongwith Its in vitro Chemical and Biotic

Elicitor Mediated Management. Journal of Agricultural Science. 6(9): 134-143. **(H-index)**

46. Sumaira Ajmal, Rashida Perveen, **Sobia Chohan**, Ghazala Yasmin and Mirza Abid Mehmood**.** 2011. Role of secondary metabolites biosynthesis in resistance to *cotton leaf curl virus* (*CLCuV*) disease. African Journal of Biotechnology. 10 (79):18137-18141. **(Impact Factor 0.565 2010**).
47. **Sobia Chohan***, Rashida Atiq, Mirza Abid Mehmood**,** Safina Naz, Bushra Siddique and Ghazala Yasmin. 2011. Efficacy of few plant extracts against *Fusarium oxysporum* f.sp. *gladioli*, the cause of corm rot of gladiolus. Journal of Medicinal Plants Research. 5(16): 3887-3890. **(Impact Factor 0.879 2010).**
48. Shehzad Shakoor, **Sobia Chohan**, Abid Riaz, Rashida Perveen, Safina Naz, Mirza Abid Mehmood**,** Muhammad Saleem Haider and Shakeel Ahmad. 2011. Screening of systemic fungicides and biochemicals against seed borne mycoflora associated with *Momordica charantia*. African Journal of Biotechnology. 10 (36): 6933-6940. **(Impact Factor 0.565 2010).**
49. Rashida Perveen, Ishaq Fani, Noor-ul-Islam, Saleem Haider, **Sobia Chohan** and Atiq-ur-Rehman. 2010. Correlation of biweekly environmental conditions on CLCuV disease growth in Pakistan. European Journal of Scientific Research. 42(4): 600-607.
50. Rashida Perveen, Muhammad Aslam Khan, Noor ul Islam, **Sobia Chohan**, Saleem Haider and Idrees Ahmad Nasir. 2010. Whitefly population on different cotton varieties in the Punjab. Sarhad Journal of Agriculture. 26(4): 583-589. **(Hec approved-X Category).**
51. Rashida Perveen, Ishaq Fani, **Sobia Chohan**, Saleem Haider and Safina Naz. 2010. Effect of nitrogen and carbon from different organic supplements on pathogenic potential of *Phytophthora capsici*, in collar rot of chillies. European Journal of Scientific Research. 1 (43): 107-112.
52. Rashida Perveen, Ishaq Fani, I. Rasheed, **Sobia Chohan**, Ateeq-Ur- Rehman, and Saleem Haider. 2010. Identification of *Cotton leaf curl begomovirus* in Pakistan in different symptomatic and asymptomatic plants through Enzyme-linked immunosorbent assay (ELISA). European Journal of Social Sciences. 4 (14): 502-507.
53. Perveen Kausar, **Sobia Chohan*** and Rashida Perveen. 2009. Physiological studies on *Lasiodiplodia theobromae* and Fusarium solani, the cause of Shesham decline. Mycopath. 7(1):35-38.
54. Attaullah Khan Pathan, **Sobia Chohan**, Mushtaq Ali Leghari, Ali Sher Chandio and Asif Sajjad. 2007. Comparative resistance of different cotton genotypes against insect pest complex of cotton. Sarhad Journal of Agriculture. 23(1): 141-143. **(Hec approved-X Category)**
55. **Sobia Chohan**, Attaullah Khan Pathan and Asif Sajjad. 2005. Effect of different carbon and nitrogen sources on mycelia growth of *Phytophthora nicotianae* var. *parasitica*. The causal organism of collar rots of Brinjal. Sindh Balochistan journal of Plant Sciences. 7(1): 16-18.
56. **Sobia Chohan**, Attaullah Khan Pathan and Asif Sajjad. 2005. Biological control of *Phytophthora nicotianae* var. *parasitica*. The causal organism of collar rots of Brinjal. Sindh Balochistan Journal of Plant Sciences. 7(1): 51-53.
57. Nasim Begum, Kashif Zeeshan Alvi, Muhammad Irfan-ul-Haq, **Sobia Chohan** and Usman Raja. 2004. Evaluation of micoflora associated with pea seeds and some control

measures. Plant Pathology Journal. Asian Network for Scientific Information. 3(1): 48-51. **(Hec approved)**

58. **Sobia Chohan,** Jaffer Hussain Mirza, Abdus Shakoor Shakir, Rashida Perveen and A. Khalid. 1999. Some physiological studies on *Phytophthora nicotianae* var. *parasitica*, the casual organisms of Collar rot of brinjal. Pakistan Journal of Biological Sciences. 2(3): 996-997. **(Hec approved)**
59. Rashida Perveen, Jaffer Hussain Mirza, Abdus Shakoor Shakir and **Sobia Chohan.** 1997. Some physiological studies on *Phytophthora capsici*, the cause of root/collar rot of Chilies. Pakistan Journal of Phytopathology. 9(2):111-113. **(Hec approved-Y Category)**

Books Edited /Book Chapter:

1. **Sobia Chohan**, Muhammad Abid, Shahid Gill and Muhammad Tariq Malik. 2025. Protocols of Clean Pot Media for Containerized Mango Nursery. In: Naqvi, S.A.H., Ahmad, S., Ahmed, M. (eds) Climate Change and Mango Production. Springer, Cham. https://doi.org/10.1007/978-3-031-87035-4_16
2. Syed Atif Hassan Naqvi, Ateeq ur Rehman, **Sobia Chohan**, Ummad ud Din Umar, Yasir Mehmood, Ghulam Mustafa, Wajid Nzir and Amna Hassan. 2023. Sustainable Development in Agriculture beyond the Notion of Minimizing Environmental Impacts. (In: Disaster Risk Reduction in Agriculture – Disaster Resilience and Green Growth). pp147- 168. Springer, Singapore. https://doi.org/10.1007/978-981-99-1763-1_8
3. **Sobia Chohan***., Rashida Perveen, Muhammad Abid, Muhammad Nouman Tahir, Muhammad Sajid. 2020. Cotton Diseases and their Management. (In: Cotton Production and Uses – Agronomy, Crop Protection, and Postharvest Technologies. pp 239-270. Springer Nature Press, Singapore.
4. Rashida Perveen, **Sobia Chohan,** Muhammad Abid, Muhammad Nouman Tahir, Muhammad Sajid, Kumara K.L.W. 2017. Abstract Book of 6th International conference of Pakistan Phytopathological Society, held on November 20-22, 2017.

Conference Presentations, Abstracts, Proceedings and Bulletins:

1. The 9th International Conference of the Pakistan Phytopathological Society (9th ICPPS) took place from November 16–18, 2025, at Pir Mehr Ali Shah Arid Agriculture University Rawalpindi (PMAS-AAUR).
2. **Chohan S**., Perveen R., Abid M. 2018. “Exploitation of Medicinal Plants for Eco-Friendly Management of Tomato Early Blight Disease”. International Conference on

Veterinary, Agriculture and Life Sciences (ICVALS) Antalya, Turkey. October 26-29, 2018. 38p.

3. Kalsoom R, **Chohan S**, Haider S. 2018. "Synergistic effect of plant extracts and fungicide against purple blotch disease of onion. synergistic effect of plant extracts and fungicide against purple blotch disease of onion" International Conference on Veterinary, Agriculture and Life Sciences (ICVALS)" Antalya, Turkey. 26-29th October, 2018. 39p.
4. Riaz H. M, Abid M., **Chohan S**, Yuen G. 2018. Survey on the importance of early blight disease of tomato in Punjab, Pakistan. (Abstr.) Phytopathology 108: S2.34. https://doi.org/10.1094/PHYTO-108-12-S2.20 (Poster presented at North Central Division Meeting 2018)
5. **Chohan S**., Alvi A. R., Abid M., Malik M. T. 2018. Effect of Different Chemicals and Fungicides to Induce Flowering and Control of Inflorescence Diseases in Mango Cultivar-Chaunsa Summer Bahisht. 1st International and 2nd National Conference on Crop Pests and Diseases. College of Agriculture, Bahauddin Zakariya University, Bahadur Sub-Campus, Layyah, Punjab, Pakistan. March 26-28, 2018.
6. Abid M., Shehzadi I, **Chohan S**, Sajid M., Perveen R., Naqvi SAH and Malik T. Emerging Resistance in *Ceratocystis fimbriata* Against Commonly Used Fungicides in Pakistan.1st International and 2nd National Conference on Crop Pests and Diseases. College of Agriculture, Bahauddin Zakariya University, Bahadur. Sub-Campus, Layyah, Punjab, Pakistan. March 26-28, 2018
7. Abid M., Ullah K., **Chohan S**., Perveen R. Impact of Farm Practices on Red-Rot of Sugarcane. International Conference of Pakistan Phytopathological Society (6th ICPPS), Bahauddin Zakariya University and Central Cotton Research Institute, Multan, Pakistan. November 20-22, 2017
8. Latif S., Abid M., **Chohan S**., Malik T. Developing protocols of disease-free pot media for containerized Mango nursery. International Conference of Pakistan Phytopathological Society (6th ICPPS), Bahauddin Zakariya University and Central Cotton Research Institute, Multan, Pakistan. November 20-22, 2017.
9. Naqvi SAH, Perveen R., Umar UUD, **Chohan S**., Rehman AU, Abid M., Kareem M. Effect of botanical extracts: A potential biocontrol agent for *Xanthomonas oryzae* pv. *oryzae*, causing bacterial leaf blight disease of rice. International Conference of Pakistan Phytopathological Society (6th ICPPS), Bahauddin Zakariya University and Central Cotton Research Institute, Multan, Pakistan. November 20-22, 2017.

10. Ali N, Abid M, Malik T., **Chohan S**. Towards the escape of mango malformation disease through application of Naphthalene Acetic Acid (NAA) along with different fungicides. International Conference of Pakistan Phytopathological Society (6th ICPPS), Bahauddin Zakariya University and Central Cotton Research Institute, Multan, Pakistan. November 20-22, 2017.
11. Tariq A, **Chohan S**, Akram S, Atiq R and Abid M. In vitro studies on the potential for biological control of *Fusarium solani* and *F.oxysporum* by *Trichoderma* species. International Conference of Pakistan Phytopathological Society (6th ICPPS), Bahauddin Zakariya University and Central Cotton Research Institute, Multan, Pakistan. November 20-22, 2017.
12. Tariq A., **Chohan S**., Akram S., Atiq R., Abid M., Effects of neonicotinoid insecticides and inorganic fertilizers on myco-flora associated with Soil. International Conference of Pakistan Phytopathological Society (6th ICPPS), Bahauddin Zakariya University and Central Cotton Research Institute, Multan, Pakistan. November 20-22, 2017.
13. Tariq A, **Chohan S**., Umer UAD, Akram S., Atiq R., Abid M. Antifungal effects of Trichoderma spp and fungicides on *Fusarium mangifeare in vitro.* International Conference of Pakistan Phytopathological Society (6th ICPPS), Bahauddin Zakariya University and Central Cotton Research Institute, Multan, Pakistan. November 20-22, 2017.
14. Kalsoom R., Haider S., **Chohan S.**, Abid M. *In-vitro* screening of medicinal plants extracts against purple blotch disease of onion. International Conference of Pakistan Phytopathological Society (6th ICPPS), Bahauddin Zakariya University and Central Cotton Research Institute, Multan, Pakistan. November 20-22, 2017.
15. Riaz HM, Abid M., **Chohan S**. Management of early blight of tomato through use of indigenous bacteria and *Trichoderma.* International Conference of Pakistan Phytopathological Society (6th ICPPS), Bahauddin Zakariya University and Central Cotton Research Institute, Multan, Pakistan. November 20-22, 2017.
16. Naqvi SAH, Parveen R, **Chohan S**., Abid M. Identification of Resistance Sources, Epidemiology and Biological Management Against Bacterial Leaf Blight of Rice (*Xanthomonas oryzae* pv. *oryzae*). National conference on Challenges and opportunities to boost Agriculture in Changing Climate. College of Agriculture, Bahauddin Zakariya University, Bahadur Sab- campus Layyah Pakistan. March 29-30, 2017.
17. Abid M., Ullah K, **Chohan S.,** Sajid M., Naqvi SAH., Perveen R. Impact of Sowing Time, Soil Types and Varietal Selection on Incidence and Severity of Red Rot of

Sugarcane. National conference on Challenges and opportunities to boost Agriculture in Changing Climate. College of Agriculture, Bahauddin Zakariya University, Bahadur Sab- campus Layyah Pakistan. March 29-30, 2017.

18. Sajid M., Atiq M., Abid M., Perveen R, **Chohan S**., Bashir R., Jamil H. Efficacy of Plant Extracts and Chemicals Against Bacterial Blight of Cotton Under Laboratory, Green House and Field Conditions. National conference on Challenges and opportunities to boost Agriculture in Changing Climate. College of Agriculture, Bahauddin Zakariya University, Bahadur Sab- campus Layyah Pakistan. March 29-30, 2017.
19. Tariq A., **Chohan S**., Akram S., Atiq R., Abid M. Comparison of fungal contamination linked to whole and white wheat flour. 3rdInternational Conference on Safe Food for all. March 2-3, 2017. Institute of food Science and Nutrition, Bahauddin Zarkariya University, Multan Pakistan
20. Akram S., Atiq R., Tariq A., **Chohan S**., Abid M. Impact of storage duration on fungal associated with white wheat flour in Multan, Pakistan. 3rd International Conference on Safe Food for all. March 2-3, 2017. Institute of food Science and Nutrition, Bahauddin Zarkariya University, Multan Pakistan.
21. Abid M., Shahid MN., **Chohan S**., Perveen R., Naqvi SAH., Saeed F. Occurrence, Manifestation and impact of Various Management Practice on Downy Mildew of Cucurbits in High Tunnels. Conference on Sustainable Crop and Animal Production System: Feeding 9 billion through sustainable Agriculture. Pakistan Agricultural Scientists Forum & University of Haripur KPK, Pakistan. December 8-10, 2016.
22. Akram S., Tariq A., Rizwan M., **Chohan S**., Abid M. Myco-pathogens associated with raw Food as prospective predictors of the malnutrition. 2nd International Conference on Malnutrition April 7-8, 2016 Institute of food Science and Nutrition, Bahauddin Zarkariya University, Multan Pakistan.

Research Projects

- Principal investigator in a research project entitled “Antifungal potential of indigenous medicinal plants for the management of Fusarium wilt of chilli” amounting 0.2M funded by Directorate of Research and External Linkage, Bahauddin Zakariya University, Multan (23-24).

- Principal investigator in a research project entitled "Induction of disease resistance in pulses using essential oils against seed borne mycoflora" amounting 2.592M (2019-2022, NRPU-HEC, Pakistan).
- Co-Principal investigator in a project entitled "Development of biological control against early blight of tomato using local soil microbes" amounting 2.608M (2019-2022, NRPU-HEC, Pakistan).
- Principal investigator of research project entitled "Effect of different chemicals to induce flowering & control of inflorescence diseases in mango cultivar chaunsa summer bahisht" amounting 0.2M funded by Directorate of Research and External Linkage, Bahauddin Zakariya University, Multan (Completed 2016-17)
- Principal investigator of research project entitled "Biological potential, biochemical characterization of Trichoderma isolates against soilborne fungal pathogens" amounting 0.136M funded by Directorate of Research and External Linkage, Bahauddin Zakariya University, Multan (Completed- 2015-2016)
- Principal investigator of research project entitled "Antifungal activity and phytochemical analysis of various medicinal plants against pathogenic fungi of Tomato" amounting 0.22M funded by Directorate of Research and External Linkage, Bahauddin Zakariya University, Multan. (Completed-2012-2015).
- Principal investigator of research project entitled "Physiological studies on *Lasiodiplodia theobromae* and *Fusarium solani*, the cause of Shesham decline" amounting 0.1M funded by Directorate of Research and External Linkage, Bahauddin Zakariya University, Multan (Completed-2006-2007).

Conferences and Seminars organized:

1. One-day seminar on "End Note" conducted by Department of Plant Pathology, Bahauddin Zakariya University, Multan. April 29, 2018
2. Three days 6th International Conference on "Plant Health for Sustainable Agriculture" A Focused Approach for Food Security under Changing Climate. Bahauddin Zakariya University Multan and Central Cotton Research Institute, Multan. November 20-22, 2017.
3. One-day Seminar on Cotton diseases and their management. Bahauddin Zakariya University, Multan, Pakistan. October 3, 2016
4. One-day Seminar on Mango diseases and their management. Bahauddin Zakariya University, Multan, Pakistan. May 14, 2015

Professional Trainings Received:

1. Participated in one-day workshop on "Tools and Methods in Research Writing-Developing Skills in Scientific Writing" held on 18th April' 2017 at Department of Soil Sciences, Bahauddin Zakariya University, Multan.
2. Participated in three-days' workshop on "Basic Bioinformatics" held on 19-21st April' 2016 at Institute of Molecular Biology and Biotechnology, Bahauddin Zakariya University, Multan.
3. Participated in one-day workshop on "ASM Scientific Writing and Publishing", 2nd October' 2013 held at Department of Food Science and Technology, B. Z. U-ASM Bio-resource center. Multan.
4. Participated in two-days' workshop on "Simulation Modeling: A Decision Support System for Agro-technology Transfer for Improving the Standards of Research" held on 04-05 March' 2013 at Bahauddin Zakariya University, Multan.
5. Professional training in three days HEC workshop on "Statistical modeling for Improving the Standards of Research and Education for University Professionals" held on 23-25th January'2012 at Bahauddin Zakariya University, Multan.
6. Participated in two days training workshop on" Integrated Disease Management of Mango in Pakistan and Australia" held on 7-8th August' 2007 at Bahauddin Zakariya University, Multan.
7. Completed two weeks' basic computer course on "Basics of Computer, DOS, WINDOWS' 95 and MS-WORD", 8-22 September' 1997 held at Information Technology Lab, UIMS, PMAS-Arid Agriculture University, Rawalpindi.

Professional Memberships:

- Member of American Phytopathological Society (Since 2013).
- Member of American Society for Microbiology (Since 2013).
- Lifetime member of Pakistan Phytopathological Society (Since 2016)
- Patron and founder of Zakariyan Phytodoctors Forum (Since 2015)

Students Supervised:

Ph.D Students under Supervision:

1. Student: Hafiz M. Saqib. Thesis title: Induction of disease resistance in pulses using essential oils against seed borne mycoflora. (2025)

2. Student: Hafiz Muhammad Riaz. Thesis title: 'Evaluation of indigenous soil microflora towards biological control of early blight of tomato'. (2022).
3. Student: Rabia Kalsoom. Thesis title: "Induction of resistance using plant extracts against Purple Blotch of Onion". (2022).

Post graduate Research Theses:

1. Evaluation of selected PGPRs strains against Chili Anthracnose (Session 2023-25)
2. Antagonistic activity of PGPRs against Fusarium Wilt of Chili (Session 2023-25)
3. Sustainable management of chickpea blight incited by Ascochyta rabiei using black pepper (Piper nigrum) essential oil (Session 2022-24)
4. Antifungal potential of indigenous medicinal plants for the management of Fusarium wilt of chili (Session 2022-24)
5. Management of Chickpea Blight caused by Ascochyta rabiei by using essential oil of Foeniculum vulgare (Session 2021-23)
6. Evaluation of Syzygium cumini essential oil against Ascochyta blight of chickpea (Session 2021-23)
7. Efficacy of Citrus reticulate essential oil for the management of chickpea blight (Session 2021-23)
8. Evaluation of chemicals and plant extracts against bacterial leaf spot of spinach under in vitro conditions (Session 2020-22)
9. Ascertaining anti-fungal potential of plant extracts for the management of seed borne fungal diseases of pulse crops (Session 2020-22)
10. Exploiting anti-fungal potential of plant extracts for the management of Cercospora beticola, the cause of leaf spot disease in spinach (Session 2020-22)
11. Susceptibility of sugarcane to red rot disease, identification of its possible cause and eco-friendly in vitro management of disease (Session 2020-22)
12. Some epidemiological studies of Mango Anthracnose incited by Colletotrichum gleosporoides (Session 2020-22)
13. Fungicidal efficacy of plant extracts and their products against storage fungi of Wheat (Session 2018-20)
14. A comparative study on antifungal effects of medicinal plants and fungicide on Anthracnose of Mango (Session 2018-20)
15. Biochemical and physiological characterization of *Xanthomonas axenopoudis citri* and its management (Session 2018-20)
16. Role of epidemiological and biochemical factors for the development of Bacterial Blight of Pomegranate (Session 2018-20)
17. In vitro evaluation of chemicals and plant extracts against Bacterial Blight of Cotton (Session 2018-20)
18. Biochemical and molecular characterization of *Xanthomonas axonopodis* pv. *punicae* causing Bacterial Blight of Pomegranate in Southern Punjab (Session 2017-19)
19. Chemical management of Mango trees infected with Mango Sudden Death Disease through macro infusion system (Session 2017-19)
20. Evaluation of different Fungicides against *Alternaria helianthi* causing Blight of Sunflower (Session 2017-19)
21. Evaluation of various plant extracts as surface protectants against seed borne fungi of grain and cereal crops (Session 2017-19)
22. Molecular characterization, Biochemical profiling and tolerance of mango (*Mangifera indica* L.) cultivars to malformation (Session 2016-2018)
23. Effect of different chemicals to induce flowering and control of inflorescence diseases

in mango cultivar Chaunsa Summer Bahisht (Session 2014-2016)

24. Rising threat of fungicide resistance in various plant pathogenic fungi (Session 2014-2016)
25. Biological potential of Trichoderma isolates against various fungal pathogens (Session 2014-2016).
26. Enumeration of endophytic fungi from medicinal plants (Session 2012-2014).
27. Diversity of Endophytic fungi and their Bio-efficacy against Early Blight disease of Tomato (Session 2012-2014)
28. A cumulative study on black scurf disease of potato and its biochemical management (Session 2011-2013)
29. Assessment, Etiology and predisposing factors for Mango Malformation (Session 2010-2012).
30. Evaluation of medicinal plant extracts for management of seed borne mycoflora of Brinjal (*Solanum melongena* L.) (Session 2010-2012).
31. Chemotherapy of Black Scurf of Potato through tuber treatment (Session 2010-2012)
32. Studies on Spawn production of Button Mushroom (*Agaricus bisporus* L.) Imbach (1999).

Academic/Professional Assignments

University Campus/Department Services

- Chairperson, Department of Plant Pathology (2023-2026)
- Member of University Senate (2022-onward)
- Member of Academic Council(2022-onward)
- Member of Board of Faculty (2022-onward)
- Member of Board of Studies
- Member of Part Time Teachers Committee, FAS&T (2023-to date)
- Coordinator of M. Phil Evening Program (2020-2025)
- Member of Surveillance Committee of Department of Plant Pathology
- Member of Technical Review Committee (DTRC) of Department of Plant Pathology
- Member of Admission Committee.
- Member of Examination Committee.
- Member of Departmental Purchase Committee
- Patron in Chief of Departmental Event Management Committee

Others

- Subject Expert of Selection Board of University of Poonch, Rawalaot. AJK (2023)
- Member of Pakistan Public Service Commission selection committee (2021)
- Focal person for Mevlana Exchange Program, Turkey (2021-2025).

Editorial assignments

- Subject editor of Pakistan Journal of Phytopathology
- Editor of abstract book of "6th International conference of Pakistan Phytopathological Society, 2017"

Reviewer of Journals

- Pakistan Journal of Agricultural Research
- Journal of Animal and Plant Sciences
- Plant Disease Notes-APS
- Journal of Environmental Management
- PLOS ONE
- Reviewer- Pakistan Journal of Phytopathology
- Reviewer-Journal of Agricultural Science and Food Technology
- Reviewer-Journal of Food Processing and Preservation
- Reviewer-Asian Journal of Research in Biochemistry
- Reviewer-Journal of Advances in Biology and Biotechnology
- Reviewer-Asian Journal of Advanced Research and Reports
- Reviewer-Annual Research & Review in Biology
- Reviewer-European Journal of Medicinal Plants
- Reviewer-Journal of Applied Life Science International
- Reviewer-Journal of Scientific Research and Reports
- Reviewer-International Journal of Biochemistry Research and Review
- Reviewer-Asian Journal of Agricultural and Horticultural Research
- Reviewer-Plant Cell Biotechnology and Molecular Biology
- Reviewer-Asian Research Journal of Agriculture
- Reviewer-Journal of Advances in Microbiology
- Reviewer-International Journal of Plant & Soil Science
- Reviewer-Scienceasia