

University Academic Curriculum Vitae

Personal Information

Hafiz Husnain Nawaz

Education since leaving school

- 2007, Intermediate of Science, Board of Intermediate and Secondary Education Gujranwala, Punjab, Pakistan
- 2011, Bachelor of Science (16 year), Agriculture Plant Pathology; University of the Punjab, Lahore, Pakistan
- 2013, Master of Science (18 year), Agriculture Plant Pathology; University of the Punjab, Lahore, Pakistan
- 2018, PhD. Microbiology (Plant Pathology); Hainan University

Present appointment

- University Researcher
- 01/11/2023
- International Staff
- Free University of Bozen Bolzano, Italy

brief description of responsibilities

Innovative Researcher adept at developing probing questions, designing experiments, and generating meaningful results. Experienced at identifying and using new technologies and resources. Works effectively and collaboratively with teams and individuals.

Professional experience

From / to	Job title	Name of academic Institution	Academic level	responsibilities
2010/013	Research Associate	Auriga Research Station, Lahore, Pakistan	B.Sc. (Hon.)	Preparing the brief and commissioning research, Formulating a plan/ proposal and presented it to stakeholder, Writing and managing the surveys and questionnaires, Advising seniors management on how to best use of research finding, Managing budgets.
2014/2018	Research Associate	Hainan Key Laboratory for Sustainable Utilization of Tropical Bioresource, College of Environment and Plant Protection, Hainan University, China	M.Sc. (Hon.) / PhD.	Planning of research according to objectives, Performing the molecular, genetics and bio control-based experiments, Using statistical software to manage and organize information, Monitoring the progress of research project, Writing detail reports and presenting results
2018/2019	Lecturer	Aspire College, Jhelum Campus, Punjab, Pakistan	PhD.	Taught different courses to university level students. Also supervised under graduate and post graduate students.
2019-2020	Assistant Professor	Department of Microbiology and Molecular Genetics University of Okara, Okara, Punjab, Pakistan	PhD.	Taught different courses to university level students. Also supervised under graduate and post graduate students.
2020-2023	Plant Pathologist	Center of Excellence for olive research and training, Barani Agricultural Research Institute,	PhD.	Responsible for plant pest and diseases. Performed regular disease and pest diagnostic surveys and conveyed a different techniques and management strategy to control different pest and diseases. On the

		Chakwal, Pakistan		other hand, our section activities are performed under my supervision and I monitored and advice different activities to my colleagues and subordinates
2022-2023	Plant Pathology consultant	olive culture holistic and multi-professional mechanism for a Pakistani olive value chain" "Collaborating Partner CIHEAM BARI, Italy and Government of Pakistan	PhD.	Responsible for plant pest and diseases. Performed regular disease and pest diagnostic surveys and conveyed a different techniques and management strategy to control different pest and diseases

- Won Chinese government outstanding international student award 2018
- Won Chinese Government Scholarships (CSC) 2014 for Ph D Hainan University, Hainan, China

Competitions and awards received.

Participation in exhibitions (where applicable)

- Organized and participated in one-day workshop "Olive Orchard establishment & management 11.09.2020 at Center of Excellence for Olive Research & Training (CEFORT), Barani Agriculture Research Institute (BARI), Chakwal.
- Organized and participated at One day training program on "survey of the olive orchard and survey instrument under CEFORT" dated 07.02.2020 at BARI, CHAKWAL.
- Organized and participated in one-day workshop "Olive Orchard establishment & management" 18.09.2020 at CEFORT, BARI, CHAKWAL.
- Organized and participated in one-day workshop "Olive Orchard establishment & management" 28.09.2020 organized by CEFORT, BARI, CHAKWAL.
- Participated in Two days training program on "Olive Pruning and orchard management for next year fruiting 26-27 November 2020" organized by CEFORT, BARI, CHAKWAL.
- Participated in National Olive Festival "on November 7-8, 2020 Organized by CEFORT, BARI, CHAKWAL.
- One day hands on training program on "Preparation of value- added products of olive" on 07.09.2020, organized by CEFORT, BARI, CHAKWAL.
- Participated in 5th Annual National Olive Festival on 27.09.2020 organized by Olive Foundation Pakistan.
- National seminar on "sustainable olive orchard Management in Pakistan "dated 23.12.2020 at BARI CHAKWAL.
- Training course in "Directorate General of Pest Warning and Quality Control of Pesticides, Directorate of Agriculture Punjab, Lahore" entitled "Crop Pest Warning And Pesticides Quality Control". June 2011.
- Volunteer Organizer Certificate of Dawn Pakistan Agri Expo and Conference 2012 on "Agricultural Competitiveness through Value Addition". Expo Centre, Johar Town, Lahore. February 2012.
- Conferees Organizer entitled 3rd International Conference of Plant Pathology and 7th Biennial Meeting of Phytopathological Society on "Future Food Security". Department of Mycology and Plant Pathology, University of the Punjab, Lahore. November 2007.

Experience in academic teaching

- **Environmental Ethics**, Department of Microbiology and Molecular Genetics, University of Okara, Okara, Pakistan (Post-graduate and PhD.) Result Evaluation Has been done on the basis of assignments, quizzes, exams, projects, presentations, and papers
- **Fundamental Microbiology**, Department of Microbiology and Molecular Genetics, University of Okara, Okara, Pakistan (Post-graduate) Result Evaluation Has been done on the basis of assignments, quizzes, exams, projects, presentations, and papers
- **Diversity Of Plant and Fungi**, Department of Microbiology and Molecular Genetics, University of Okara, Okara, Pakistan (under-graduate) Result Evaluation Has been done on the basis of assignments, quizzes, exams, projects, presentations, and papers
- **Bacterial Metabolism**, Department of Microbiology and Molecular Genetics, University of Okara, Okara, Pakistan (Post-graduate) Result Evaluation Has been done on the basis of assignments, quizzes, exams, projects, presentations, and papers
- **Plant Diversity**, Aspire Group of Colleges, Jhelum Campus, Punjab, Pakistan (undergraduate) Result Evaluation Has been done on the basis of assignments, quizzes, exams, projects, presentations, and papers
- **Higher Fungi**, Aspire Group of Colleges, Jhelum Campus, Punjab, Pakistan (undergraduate) Result Evaluation Has been done on the basis of assignments, quizzes, exams, projects, presentations, and papers
- **Microbial and Molecular Genetics**, Aspire Group of Colleges, Jhelum Campus,

Punjab, Pakistan (undergraduate) Result Evaluation Has been done on the basis of assignments, quizzes, exams, projects, presentations, and papers

Summary of significant personal achievements in teaching

- Successful implementation of innovative teaching methods: Designing and implementing new teaching strategies that engage students and enhance their learning experience.
- Development of curriculum: Creating or modifying curriculum materials to meet the specific needs of students and aligning them with educational standards.
- Positive student outcomes: Demonstrating consistent improvement in students' academic performance, as evidenced by increased test scores, grades, or other measurable indicators.
- Effective classroom management: Establishing a positive and conducive learning environment, managing student behavior, and fostering a respectful and inclusive classroom community.
- Individual student success stories: Celebrating the achievements of individual students who have overcome challenges, made significant progress under my guidance.
- Positive student feedback: Receiving positive feedback from students in the form of evaluations, surveys, or testimonials, indicating their satisfaction with the learning experience and my teaching methods.
- Recognition from colleagues or superiors: Being acknowledged by fellow educators, school administrators, or educational institutions for my dedication, professionalism, and contributions to the field of education.
- Mentoring and support: Providing guidance and support to fellow teachers, serving as a mentor or coach, and contributing to the professional development of my peers.
- Community involvement: Active participation in community outreach programs, partnerships with local organizations, or initiatives that promote education and benefit the community.

Other academic responsibilities

- Worked as Head of the Olive Plant disease Management Section at Center of Excellence for Olive Research and Training, BARI, Chakwal, from June 2020 to date.
- Worked as olive variety registration committee member at the federal seed certification and registration department, Islamabad DEC, 2020 to till date.
- Worked as a member of the technical procurement committee at the Center of Excellence for Olive Research and Training, BARI, Chakwal, from June 2020 to date.

Memberships

- Member of Pakistan Phyto-pathological Society, Pakistan

Research and scholarships

Date granted	Award Holder(s)	Funding Body	Title	Amount received
2014-2018	Hafiz Husnain Nawaz	Chinese Scholarship Council	Molecular Detection of Colletotrichum gossypii Causing Cotton Anthracnose and Biological Control Mechanism of the Bacillus licheniformis Strain OE-04	200000 RMB
20118	Hafiz Husnain Nawaz	Chinese Scholarship Council	Chinese government outstanding international student award	30000 RMB

Publications

1. Muhammad Umer, Naureen Anwar, Qaiser Shakeel, **Hafiz Husnain Nawaz**, Yasir Iftikhar, Muhammad Rafiq, Xu Han, Yuejun He (2024) "Homolog of serine carboxypeptidases is a crucial driver for the growth, stress resilience, and pathogenicity of Botryosphaeria dothidea" Environmental and Experimental Botany Under Revision (IF:5.7)
2. **Nawaz, H.**, K. Nawaz, A. Rehman, M. Bashir, M. Hira and M. Nawaz. 2023. Mungbean yellow mosaic begomovirus: A comprehensive review. Pakistan Journal of Agricultural Research, 36(3): 250-262.
3. Awan, M.A., **H.H. Nawaz***, N. Akhtar and A.A. Awan. 2023. A behavioral study of different chemicals for the management of olive psyllids. Pakistan Journal of Agricultural Research, 36(1): 46-51. DOI | <https://dx.doi.org/10.17582/journal.pjar/2023/36.1.46.51>
4. Muhammad Ali, Sohaib Afzaal, Faiza Sharif, Shinawar Waseem Ali, **Hafiz Husnain Nawaz** & Waqas-ud-Din Khan (2023) Morphological and molecular characterization of Pythium species from Punjab, Pakistan, Archives of Phytopathology and Plant Protection, 56:4, 307-321, DOI: 10.1080/03235408.2023.2184232 (IF: 1.0)
5. **Hafiz Husnain Nawaz***, Ayesha Ahsan, Amir Afzal, Muhammad Ashraf Sumrah, Muhammad Jan, Kashif Ali, Muhammad Arsalan and Rizwan Latif 2022 Polyphenol Content and Antioxidant Activity of Native Cultivar of Cannabis sativa L. of Pakistan Pakistan Journal of Agricultural Research, 35(3): 514-522.
6. **Nawaz Hafiz Husnain**, Rafique M, Ijaz M, Sumrah Ashraf, Ansar Ramzan, Miao Weiguo. 2022 Colletotrichum acutatum: causal agent of Olive anthracnose isolation, characterization, and fungicide susceptibility screening in Punjab,

- Pakistan. Plant Disease, <https://doi.org/10.1094/PDIS-09-22-2260-RE> (IF:4.5)
7. **Nawaz Hafiz Husnain**, Rafique M, Ijaz M, Sumrah Ashraf, Husnain kamil S, Ansar Ramzan, Miao Weiguo, 2021. A New Disease of Crown Rot Caused By *Phytophthora Inundata* On *Olea Europaea* In Pakistan Plant Disease, Accepted with Minor Revision (IF:4.5).
 8. **H. H. Nawaz**, M. Rafique Dogar, M. Ijaz, Ashraf Sumrah, M. Ramzan Ansar, S. Rashad Ali, Weiguo Miao *, 2022. First report of crown gall diseases caused by *Agrobacterium radiobactor* in Pakistan, Plant Disease, <https://doi.org/10.1094/PDIS-12-21-2805-PDN>. (IF:4.5).
 9. **Nawaz Hafiz Husnain**, Rafique M, Ijaz M, Sumrah Ashraf, Husnain kamil S, Ansar Ramzan, Miao Weiguo, 2021. First Report of Anthracnose Caused by *Colletotrichum acutatum* On Olive Fruits in Pakistan, Plant Disease, doi.org/10.1094/PDIS-08-21-1790-PDN (IF:4.5)
 10. Akhtar, S., Sumrah, M. A., Faisal, M., Jan, M., Anser, M. R., Iqbal, M. A., **Nawaz, H.** and Rafique, M. (2021) "Economics and Marketing of Olive in Punjab, Pakistan", Journal of Economic Impact, 3(3), pp. 202–208. doi: 10.52223/jei3032110 .
 11. Sumrah, M.A., M. Jan, A. Hussain, S. Akhtar, **H. Nawaz**, M. Afzal and H. Umar. 2021. Evaluation of some promising varieties of olive (*Olea europaea* L.) for growth and yield under Pothwar Regions of Punjab, Pakistan. Pakistan Journal of Agricultural Research, 34(3): 446-453. DOI | <https://dx.doi.org/10.17582/journal.pjar/2021/34.3.446.453>
 12. Muhammad Ijaz, **Hafiz Husnain Nawaz**, Sayad Rashad Ali, Rubab Altaf, Fakeha tul Jannat, aMuhammad Rafique (2022). " DETERMINATION OF RELATIONSHIP OF ENVIRONMENTAL FACTORS WITH STRIPE RUST IN WHEAT " Plant Protection 6 (2), 151-159.
 13. ***Husnain Nawaz**, Ahsan Nawaz and Ayesha Ahsan., 2021. Total Phenolic Content and Antioxidant Potential of Local Varieties of Hemp in Pakistan (*Cannabis sativa*). J Plant Biochem Physiol Vol. 9 Iss. 8 No: 1000262.
 14. Muhammad Awais, Salal Ahmad, Muhammad Sajid, Waheed Nawaz, Muhammad Rizwan Hamid, **Hafiz Husnain Nawaz**, *Muhammad Sajid, 2021. Current Situation of Polio in Pakistan, Int. J. Adv. Pharm. Biotech. (2021) 7(1) 01-04.
 15. **Nawaz Hafiz Husnain**, Rafique M, Ijaz M, Sumrah Ashraf, Husnain kamil S, Ansar Ramzan, *Miao Weiguo, 2021. Entomopathogenic fungi in Punjab, Pakistan and their possible adaptation in biological control of *H. armigera*: Turkish Journal of Agriculture and Forestry accepted with minor revision (IF: 2.9)
 16. Zeeshan. M Ullah Habib Aarfa shan Idrees. M khan Saad Ali Ejaz Virdah Raza Ali khalid Shaheer Ali Imdad *Hameed Rizwan ***Nawaz Husnain** 2020. Nutritional and Pharmacological Aspects of Water Chestnut, Journal of Biology, Agriculture and Healthcare, DOI: 10.7176/JBAH/10-10-02.
 17. Savaira Jabbar, Muhammad Rizwan Hamid*, **Hafiz Husnain Nawaz***, Sadia Zahid, Muhammad Sajid and Su Pin., 2020. Status and Eradication of Polio in Pakistan, American journal of Biomedical Science & Research, DOI: 10.34297/AJBSR.2020.09.001435.(IF:1.042)
 18. **Hafiz Husnain Nawaz**, Usmani Anam, M.J. Nelly Rajofera, Qiguang He, W.B. Liu, *Weiguo Miao. Development of SNP-based markers to identify *Colletotrichum gossypii* in upland cotton, Plant Disease, doi: 10.1094/PDIS-10-17-1672-RE) (IF:4.5).
 19. **Hafiz Husnain Nawaz**, Usmani Anam, Qiguang He, W.B. Liu. *Weiguo Miao, 2018. First Report of anthracnose caused by *Colletotrichum gossypii* on tomato in Hainan, China, Plant Disease, doi.org/10.1094/PDIS-03-18-0412-PDN. (IF:4.5)
 20. **Hafiz Husnain Nawaz**, M.J. Nelly Rajofera , Qiguang He , Usmani Anam , Chunhua Lina, *Weiguo Miao, 2018. Evaluation of Antifungal metabolites activity from *Bacillus licheniformis* OE-04 against *Colletotrichum gossypii*. Pesticide Biochemistry and Physiology, <http://doi.org/10.1016/j.pestbp.2018.02.007>.(IF:4.7)
 21. **Nawaz, Hafiz Husnain**. "棉花炭疽病菌分子检测及芽孢杆菌 OE-04 的生防机制研究." PhD diss., 海南大学, 2018.
 22. Rajofera, M. J. N., Pengfei, J., Haiyan, S., **Nawaz, H. H.**, Yi, W., Qiguang, H., & Weiguo, M. (2018). *Bacillus atrophaeus* strain HAB-5 promotes vegetative growth of tobacco and its secretion metabolites protect plants against tobacco mosaic virus infection. 中国植物病理学会 2018 年学术年会论文集.
 23. ***Hafiz Husnain**, Ahmad ali shahid, Muhammed irfan ul haq, Anwar ali, Umer muhammed, Usmani anam. 2014. Efficacy of Entomopathogenic Fungi as Biological Control agent against insect pests of *Gossypium hirsutum*. Journal of Natural Sciences Research. Vol.4, No.5.
 24. ***Hafiz Husnain Nawaz**, Umer Javed, Balal Yousaf, Usmani Anam, Aisha Javed, Muhammed Umer 2014. Insecticide Screening for Effectiveness of Controlling Onion Thrips (thrips tabaci, lindemann) Journal of Natural Sciences Research. Vol.4, No.5.
 25. ***Hafiz Husnain Nawaz**, Muhammad Umer, Sadia Bano, Anam Usmani, Memoona Naseer. 2014. A Research Review on Tomato Bushy Stunt Virus Disease Complex Journal of Natural Sciences Research. Vol.4, No.5.
 26. Amir Afzal, Sairah Syed, **Hafiz Husnain Nawaz**, Ruqeah Mustafa, Marjan Aziz, Madeeha Khan, Azra Khan, Uzma Javed, Attiq Ur Rehman, Rubab Altaf, Qamar Shakil 2023. Unraveling the Genetic and Geographic Diversity of *Puccinia striiformis* f. sp. *tritici* (Pst) Populations for Effective Control of Stripe

Publications about the applicant

27. Dr. Hafiz Husnain Nawaz ” زرا نم بو تو به مٹی بڑی زرخبز بے ساقی “ May 15, 2022
<https://dailypakistan.com.pk/15-May-2022/1438820>.

Further data

Presentations at scientific conferences over past 3 years (invited or selected, keynote, nature, and status of conference)

Entrepreneurship

Spin-offs, patents, and entrepreneurship

Statement of interest

After going through the job description, I found myself suitable for the jobs as my current experience and expertise are totally relevant. My expertise in epidemiology of plant diseases and molecular genetics, host-pathogen interactions and related skills will enable me to done the job in proficient way. I briefly described my expertise below which will further strengthen my case.

1. Educational Background: I have a strong academic foundation in plant pathology, epidemiology, molecular biology, genetics, or a related field.
2. Research Experience: I have prior research experience in the field of plant pathology or related areas. Experience with epidemiological studies, molecular techniques (such as DNA sequencing, PCR, or gene expression analysis), and working with host-pathogen interactions.
3. Knowledge of Plant Diseases: I have a comprehensive understanding of plant diseases, including their causes, transmission mechanisms, and control strategies. Familiarity with various pathogens and their interactions with plant hosts is crucial.
4. Molecular Biology Skills: Proficiency in molecular biology techniques is essential for investigating host-pathogen interactions. I have practical experience in DNA and RNA extraction, PCR, gene cloning, gene expression analysis, and other relevant molecular techniques.
5. Data Analysis: I have a strong analytical skills to analyze and interpret data generated from epidemiological studies and molecular genetic experiments. Proficiency in statistical analysis and bioinformatics tools would be beneficial.
6. Communication and Collaboration: I have an effective communication and collaboration skills. that are vital for working in a research team and presenting research findings. I can articulate complex scientific concepts clearly and have experience in scientific writing and presenting at conferences.
7. Problem-Solving Abilities: I possess critical thinking and problem-solving skills to design experiments, troubleshoot issues, and propose innovative solutions to research challenges.
8. Publications and References: My publication record proved myself contribution in the field of plant pathology, work ethic, research skills, and ability to work in a team.
9. Passion and Motivation: A genuine passion for plant pathology, epidemiology, and molecular biology is crucial. I could demonstrate enthusiasm for the field and a strong motivation to contribute to scientific knowledge.

By considering these factors, I consider myself most suitable person for an investigation of epidemiology of plant diseases and molecular genetic host-pathogen interactions project.

Language competence

Bottom of Form				
	Language	Expertise		Comments
1	English	Listening, Writing	Reading,	Official language (PTE & ILETS certificate attained)
2	Urdu	Listening, Writing	Reading,	National Language
3	Punjabi	Listening, Writing	Reading,	First Language

Date 10/13/2023

