

Curriculum Vitae



DR. GHULAM HUSSAIN JATOI

Office Add: Department of Plant Pathology,
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Personal Details

Father's name:	Pervez Ahmed Jatoi
Date of Birth:	20/01/1991
Domicile:	Larkana (R)
Religion:	Islam
Nationality:	Pakistani
Language Skills:	English, Urdu, Sindhi, and Chinese with speaking, writing, and reading.
Designation:	Lecturer
Department:	Plant Pathology
Faculty:	Crop Protection
Qualification:	"Ph.D. Doctor of Philosophy"
Date Awarded:	18-01-2019.
Awarding Institute:	"Institute of Plant Protection Chinese Academy of Agricultural Sciences IPPCAAS Beijing China"
Subject Areas	Biological Control of Plant Pathogens, Phyto-bacteriology, Bio-Pesticides Engineering, Mycology and Plant Disease Epidemiology
Recognition:	HEC Recognized Supervisor

ACADEMIC QUALIFICATIONS

Certificate / Degree	Board / University	Year
Doctor of Philosophy (Biocontrol, Plant Diseases)	Graduate School of Chinese Academy of Agricultural Sciences, Beijing, China	2016-2019
M.Sc. (Agri.) Hons (Plant Pathology)	Sindh Agriculture University, Tandojam	2014-2015
B.Sc. (Agri.) Hons. (Plant Pathology)	Sindh Agriculture University, Tandojam	2009-2013
Intermediate (Pre-medical)	B.I.S.E Larkana	2007-2008
Matriculation (science)	B.I.S.E Larkana	2005-2006

ACADEMIC RESEARCH ACTIVITIES

- **PhD, Thesis Title**
Identification and Functional Analysis of a Novel Protein Elicitor PeBL2 from *Brevibacillus laterosporus* A60
- **M.Sc Agri (Hons) Thesis Title**
In-vitro efficacy of different fungicides, botanical extracts and Bio-control agents against *Helminthosporium oryzae*, the causal agent of brown spot of rice
- **B.Sc Agri (Hons) Internship report Title**
Morphological characterization of rice associated bacteria and their antifungal activity against brown spot fungus (*Helminthosporium oryzae*)

EXPERIENCE

Professional Experience

- Lecturer BPS-18 Regular Department of Plant Pathology, Sindh Agriculture University, Tandojam, Hyderabad, Sindh. 01-06-2023 to up to date
- Assistant Professor (Adhoc). Mir Chakar Khan Rind University Sibi, Balochistan. 08-10-2020 to 31-05-2023
- Assistant Professor (Contract). Sindh Agriculture University, Tandojam, Hyderabad, Sindh. 15-5-2020 to 7-10-2020.
- Assistant Professor. (IPFP) Sindh Agriculture University, Tandojam, Hyderabad, Sindh. 14-5-2019 to 13-5-2020.
- Lecturer/ Research Associate, Department of Plant Pathology, Balochistan Collage Quetta, Balochistan. 01-02-2019 to 11-5-2011.

AN OTHERS EXPERIENCE

- Bio-Pesticides Engineering and Biocontrol
- Master research (9) months at NIA Nuclear Institute of Agriculture Tandojam
- Internship: (3) month at NIA Nuclear Institute of Agriculture Tandojam
- Plant Pathology Laboratory: (02) years, at SZABAC-DOKRI
- English Grammar Teacher: (04) Months, at Almas English Coaching center Larkana

HONOURS & AWARDS

- Best Performance Award (GSCAAS) at Beijing China Sports Gala 2016
- Beijing Government Scholarship (2017 and 2018)
- GSCAAS. Beijing China Scholarship for Ph.D. (2016-2019)
- HEC Need Based Scholarship for master's degree program.
- District Larkana Merit Scholarship for under Graduation

SKILL PROFILE

- To diagnose disease.
- Treatment and management of Plants.
- Molecular studies.
- DNA and RNA Extraction
- Bio-pesticides Engineering
- Isolation and Purification of Protein from Microbes.
- Good communication and Presentation skills.
- Ability to take on the most difficult tasks under pressure.
- Have ability to conduct different kinds of training on Agriculture.
- Academic Writing

COMPUTER SKILLS

- Expertise in Website developing.
- Expertise in Open Journal System (OJS)
- Expertise in data analyses Statistix 8.1 software
- Microsoft Office (Ms. Word, Ms. Excel, Ms. Power Point).
- Internet (Searching & Browsing).
- Adobe Photoshop

ACHIEVEMENTS

Research Projects

As P I in Research Projects

1. **Dr. Ghulam Hussain Jatoi P I and Dr.** Manzoor Ali Abro C PI. 2020. Isolation of Rhizospheric Bacteria from soil and their Antifungal Activity Against *Helminthosporium oryzae* the causal agent of Brown Spot of Rice. HEC Pakistan SRGP 0.5 million (**Completed**)
2. **Dr Ghulam Hussain Jatoi** P I and Dr Sajjad Ali Khuhro Co-PI. 2021. Control Management Strategies for Tomato wilt disease caused by *Fusarium oxysporium* f. sp lycopersici in Balochistan and its Ecofriendly management. Govt of Balochistan by Mir Chakar khan Rind University Sibi balochistan **1.645074 million (Completed)**
3. **Dr Ghulam Hussain Jatoi** P I. 2021. Mehrgarh journal of sciences and technology. Govt of Balochistan by Mir Chakar khan Rind University Sibi Balochistan **0.1 million (Completed)**

As Co-P I in Research Projects

1. Dr Sajjad Ali Khuhro P I and **Dr Ghulam Hussain Jatoi** Co-PI. 2021. Development of Integrated pest management Modules Against Bollworm complex of Cotton crop by using Eco-Friendly methods. Govt of Nalochistan by Mir Chakar khan Rind University Sibi Balochistan **1,145000 Million (Completed)**
2. Dr. Liaqat Shah (P.I). **Dr Ghulam Hussain Jatoi** Co-P. I). 2021. Performance and evaluation of different wheat varieties under drought and salinity conditions in Sibi-Balochistan, Pakistan. HEC Pakistan SRGP 01 million (**Running**)
3. Dr. Umed Ali (P.I.). **Dr. Ghulam Hussain Jatoi,** Co P.I., 2021. Comparative analysis of maize (*Zea mays* L.) hybrids for low cadmium accumulation under silicon fertilization. HEC Pakistan SRGP 01 million (**Running**)

Editor-in-chief

- Journal of Applied Research in Plant Sciences (www.joarps.org)
- Mehrgarh Journal of Sciences and Technology (www.mhjst.org) (2020-23)

Managing Editor

- Pakistan Journal of Biotechnology (www.pjbt.org)

Editorial Board Member in Journals

- International Journal of Plant Biotechnology (<http://journalspub.com/>)

Reviewer in Journals

- Plant Cell, Tissue, and Organ Culture (PCTOC)
- Biocontrol Science & Technology
- Pakistan Journal of Biotechnology
- Plant Cell Biotechnology and Molecular Biology
- Pakistan Journal of Agricultural Research
- International Journal of Phytopathology.

Membership in Scientific Societies

- Pakistan Phytological Society (lifetime Member)
- Pakistan Botany Botanical Society

- American Society for Microbiology

TRAININGS AND WORKSHOPS

1. International Training Workshop on Green Super Rice (Crop) Breeding Technology **14th -18th** November **2016** Beijing. China. Graduate School of Chinese Academy of Agriculture Sciences Beijing. P.R. China.
2. In-Service Regional Faculty Professional Development Program awarded Karachi. July 04-20, 2022. by National Academy of Higher Education (NAHE) Higher Education Commission (HEC), Islamabad held at HEC Regional Centre,

RESEARCH PUBLICATIONS

Scientific Patent

1. Dewen Qiu, **Ghulam Hussain Jatoi**, Yang Xiufen, Guo Lihua, Jing Jing Yang (2019). A Novel Protein Elicitor PeBL2 from *Brevibacillus laterosporus*, induced by systemic immunity Against *Botrytis Cinerea* in Tobacco Plant. Govt of China.

Chapters

1. Ali, U., Shar, T., Bhutto, M. K., & Jatoi, G. H. (2023). Improving Iron Nutrition in Legumes to Overcome Hidden Hunger. In Legumes Biofortification (pp. 295-326). Cham: Springer International Publishing. https://doi.org/10.1007/978-3-031-33957-8_13.
2. Umair Riaz, Tayyaba Samreen, Muhammad Saqlain Shah, Humera Aziz, Laila Shahzad, Muhammad Zulqernain Nazir, Nimra Raiz, Tariq Mehmood, Ghulam Hussain Jatoi. 2023. Nanotechnology and Use of Nanoparticles in Developing Environmental Stress-Tolerant Plants. In Biology and Biotechnology of Environmental Stress Tolerance in Plants (pp. 571-587). Apple Academic Press.
3. Riaz, U., Anum, W., Jatoi, G. H., Murtaza, G., Qazi, M. A., Rehman, M., & Mustafa, A. (2023). Genetically modified organisms use in green synthesizes nanomaterials. In Synthesis of Bionanomaterials for Biomedical Applications (pp. 151-163). Elsevier. <https://doi.org/10.1016/B978-0-323-91195-5.00015-5>
4. Al-Ani, L. K. T., Franzino, T., Aguilar-Marcelino, L., el Zahar Haichar, F., Furtado, E. L., Raza, W., ... & Raza, M. (2020). The role of microbial signals in plant growth and development: Current status and future prospects. New and future developments in microbial biotechnology and bioengineering, 225-242. (Elsevier) <https://doi.org/10.1016/B978-0-12-820526-6.00015-4>.

Full Research Papers

1. Dileep Kumar Katario, **Ghulam Hussain Jatoi**, Rafique Ahmed Lashari Ghulam Mustafa Thebo, Noorulain Soomro, Pir Arshad Jan Sirhindi, Sohail Raja Jatoi, Kosar Parveen Kalhoro, Sobia Sattar. 2024. Isolation and Analysis of The Palynomorphs from Khadro Formation Exposed Atranikot Fort Area Sindh, Pakistan. Plant Bulletin, x(x), Accepted.
2. **Jatoi, G. H.**, Abro, M. A., Hajano, J.D., Ali, M., Zangejo, K. M., Khushk, F. A., Poussio, G. B., Talpur, S. A., (2024). Novel studies on the prevalence of leaf spot disease of banana and its chemical control in lower Sindh, Pakistan. J. Agri. Vet. Sci. 04 (1): 107-113
3. Gabol, A. H., Rajput L. B., Hajano, J.D., **Jatoi, G. H.**, Gila, A. A., Mangrio G. Q., Koondhar M. M., Fareed. G., (2024). Feeding preference of Tuta absoluta on solanaceous host plants under field conditions. International Journal of Forest Sciences. 3(1):65-74
4. Poussio, G. B., **Jatoi, G. H.**, Khaskheli, M. I., Qaz, S. T., Siddiqui, S. A., & Mengwar, M. (2023). Investigating the Efficacy of Diverse Biopesticides for Managing Fusarium Wilt Disease of Tomato. Journal of Agriculture and Veterinary Science, 2(3), 167-178.
5. Baloch, S. K., Abro, M. A., Memon, Z. F., Ali, M., **Jatoi, G. H.**, Khan, I. A., Rajpar, A. A. (2023). Assessment of Soma-Clonal Variation CP67-1026 Mutant of Sugarcane through Morphological and Molecular Procedures. Plant Bulletin, 2(1), 18–28.

6. Khaskheli, A. A. K., Hajano, J.-U.-D., Abro, M. A., Khaskheli, M. I., Syed, Rehana N., **Jatoi, G. H.**, Khaskheli, M. S., Bheermani, S. S., & Qazi, S. T. (2023). Triggering Systemic Resistance in Tomato Plants using Salicylic Acid and Gibberellic Acid against Tomato Mosaic Disease under Greenhouse. *Jammu Kashmir Journal of Agriculture*, 3(2), 95–103
7. Channa, A. W., Bux, H., Sial, M. A., **Jatoi, G. H.**, Korejo, F., Ali, U., & Keerio, M. A. (2023). Variability in Virulence of Wheat Leaf Rust (*Puccinia triticina*) in the Sindh Province, Pakistan. *International Journal of Phytopathology*, 12(2), 153-160.
8. Khaskheli, M. S., Nizamani, Z. A., Gilal, A. A., **Jatoi, G. H.**, Khan, M. A., & Khan, A. A. (2023). Chemotherapy of Tomato Mosaic Disease using Ribavirin and 8-Azaguanine. *Plant Protection*, 7(1), 93-100.
9. Ishaq, H., Khan, M. A., Ahmed, I., Shah, S. M. A., Ali, U., **Jatoi, G. H.**, ... & Iftikhar, S. (2023). Antifungal Exploitation of Fungicides and Plant Extracts Against *Fusarium Oxysporum* F. Sp. Melongenae Causing Fusarium Wilt of Eggplant. *Pakistan Journal of Biotechnology*, 20(01), 59-67.
10. Abro, M. A., **Jatoi, G. H.**, Poussio, G. B., Koondhar, N., Figari, I. M., & Arshad, W. R. (2022). The Efficient Use of Different Fungal Bioagents for Eco-Friendly Management of Fusarium Wilt Disease of Tomato in Sindh, Pakistan. *Pakistan Journal of Phytopathology*, 34(2), 103-115.
11. Channa, A. W., Bux, H., Sial, M. A., **Jatoi, G. H.**, Shah, S. M., Figari, I. M., & Koondhar, N. (2022). Evaluation of seedling resistance and marker assisted selection for leaf rust (*Puccinia triticina*) resistance in Pakistani wheat landraces, cultivars and advanced Lines. *International Journal of Phytopathology*, 11(2), 155-169
12. Hussin, S. H., Liu, X., Li, C., Diaby, M., **Jatoi, G. H.**, Ahmed, R., & Iqbal, M. A. (2022). An Updated Overview on Insights into Sugarcane Genome Editing via CRISPR/Cas9 for Sustainable Production. *Sustainability*, 14(19), 12285.
13. Ali, U., Shar, T., **Jatoi, G. H.**, Shah, L., Bhutto, M, K., Ahmed, I., 2020. Interactive impact of potassium and sulphur to enhance the growth and yield characteristics of lentil (*Lens culinaris*) genotypes. *Abasyn Journal of Life Sciences*, 4(3): 111-120 (**HEC-Y**)
14. **Jatoi, G. H.**, Abro, M. A., Ahmed, S. M., Al-Ani, L. K., Ali, U., Jatoi, M. A., & Khaskheli, N. K. (2022). Preliminary Selection and Evaluation of Fungicides and Natural Compounds to Control Grey Mold Disease of Rose Caused by *Botrytis cinerea*. *International Journal of Phytopathology*, 11(1), 49-58. (**HEC-X**)
15. Ali, U., Shar, T., **Jatoi, G. H.**, Shah, S. M. A., Shah, L., Ahmed, I., & Bhutto, M. K. (2022). The Comparison of Mungbean (*vigna radiata* L.) Cultivars in the Presence of Various Potassium Applications. *Journal of Plant and Environment*, 4(1), 39-50.
16. Qaisrani, Z. N., Nuthammachot, N., Techato, K., **Jatoi, Ghulam Hussain**, Mahmood, B., & Ahmed, R. 2022. Drought variability assessment using standardized precipitation index, reconnaissance drought index, and precipitation deciles across Balochistan, Pakistan. *Brazilian Journal of Biology*, 84:1-12(**HEC-W**)
17. Bano, S., Baloch, A. W., Mari, S. N., Shirazi, M. U., **Jatoi, G. H.**, Gandahi, N., & Ali, M. (2021). Assessing the genetic potential of mustard genotypes for water stress through PEG-6000 treatments. *Abasyn Journal of Life Sciences*, 4(2), 46-58.
18. Khuhro, S. A., **Jatoi, G. H.**, Laghari, U. A., Zangejo, K. M., & Shamim, A. (2021). Screening the Varietal Resistance and Mating Disruption Management of Cotton Bollworm *Helicoverpa armigera* and *Pectinophora gossypiella* at Sibi Balochistan. *Journal of Plant and Environment*, 3(2), 81-89.
19. Amjad, S. F., Mansoor, N., Din, I. U., Khalid Iqbal, R., **Jatoi, G. H.**, Murtaza, G., ... & Datta, R. (2021). Application of zinc fertilizer and mycorrhizal inoculation on physio-biochemical parameters of wheat grown under water-stressed environment. *Sustainability*, 13(19), 11007.

20. Channa, A. W., Bux, H., Sial, M. A., **Jatoi, G. H.**, & Kumar, R. (2021). Virulence phenotyping of leaf rust (*Puccinia triticina*) isolates from southern Pakistan. *International Journal of Phytopathology*, 10(2), 101-123.
21. Leghari, A. K., Laghari, U. A., Majidano, A. Q., **Jatoi, G. H.**, Shar, T., Khuhro, S. A., & Bhutto, M. K. (2021). Integrated management of np fertilizers can boost the growth and yield performance of sunflower (*Helianthus annuus* L.). *Plant Archives* (09725210), 21(2).
22. Mangi, N., MA, Q., **Jatoi, GH.**, Sarfraz, Z., Soomro, N., Iqbal, M., Wang, X., Jarwar, AM, S, Fan S. (2021) Effect of subtending leaf removal on yield and fiber quality traits in upland cotton (*Gossypium hirsutum* L.). *Applied Ecology and Environmental Research*. 19 (04): 3202-3225 HEC Sci IF-0.94
23. Mangi, N., Nazir, M. F., Wang, X., Iqbal, M. S., Sarfraz, Z., **Jatoi, G. H.**, ... & Shuli, F. (2021). Dissecting source-sink relationship of subtending leaf for yield and fiber quality attributes in upland cotton (*Gossypium hirsutum* L.). *Plants*, 10(6), 1147.
24. Soomro, N., Jamal Mangi, JU., Jatoi, GH., Bhugio, FA Fahim Arshad and Shahnawaz Khuhro. (2021). **Anatomical Studies of Miocene Dicot Wood of Fabaceae Excavated from Ranikot (paleo-forest) Jamshoro, Sindh, Pakistan, International Journal on Emerging Technologies 12(2): 21-25. (HEC Y)**
25. Mahjabeen Panhwar, **Ghulam Hussain Jatoi**, Ghulam Jilani, Zameer Ali Palh, Shaharyar Brohi, Shehnaz Panhwar, Sujo Meghwar and Khalid Hussain Lashari. (2021). Exogenous Hydrogen Peroxide (H₂O₂) Eustress to Wheat Genotypes Attenuates their Salinity Distress, *International Journal on Emerging Technologies* 12(1): 258-269 (HEC Y)
26. Sajjad Ali Khuhro, Jan Muhammad Mari, **Ghulam Hussain Jatoi**, Noorulain Soomro, Umed Ali Leghari and Ali Nawaz Mengal. 2021. Resistant Cultivars of Safflower *Carthamus tinctorius* based on Yield Performance and Infestation against *Acanthiophilus helianthi* (Diptera: Tephritidae), *International Journal on Emerging Technologies* 12(1): 175-180 (HEC Y)
27. Umed Ali1, **Ghulam Hussain Jatoi**, Sajjad Ali Khuhro, Tahmina Shar, Rafiq Ahmad and Mahpara Khatoon. 2021. Potassium Management for the Improvement of Growth and Yield of Grass Pea (*Lathyrus sativus* L.), *International Journal on Emerging Technologies* 12(1): 181-187. (HEC Y)
28. Noorulain Soomro, Jamal Uddin Mangi, Mahjabeen Panhwer, **Ghulam Hussain Jatoi**, Sajjad Ali Khuhro, Qamaruddin Khokhar, Shabab Ali Khan, Ali Nawaz Mengal, Nasirudin Shaikh. 2021. Anatomical characteristics of fossil wood collected from the Manchar Formation Miocene), Thano Bula Khan, Sindh, Pakistan. *Italian Botanist*, 11:1-8 (HEC X)
29. Kandhro., A. G., Hajano, J. U.D., Bhutto, M.S., Jiskani, M. M., Ahmed, M A., Khoso, F. N., Soomro, A. H., Qazi, S. T., Soomro, W. A., and **Jatoi, G. H.**, .(2020). Spatial distribution of chili leaf curl disease and its correlation with environmental factors in Indus Delta and Southern Irrigated Plain Zone of Pakistan, *Pure and Applied Biology*, 9(4):2543-2553. (HEC Y)
30. Keerio, A. D., Nazir, T., Anwar, T., Abdulle Y. A., **Jatoi, G. H.**, Gadhi, M. A and Qiu, D. (2020). Insecticidal Effect of Moderately Purified Protein 3 Acquired from *Beauveria bassiana* (Balsamo) and its 4 Presumptive Role in a Tomato (*Lycopersicon 5 esculentum*) Defense against Whitefly (*Bemisia 6 tabaci*) *Insects*, 11, 574. (IF 2.20)
31. Abdulle, Y. A., Keerio, A. U., Malik, A. B., **Jatoi, G. H.**, Sokea, T., and Dewen Qiu, D., (2020). Protein Secreted from *Lecanicillium lecanii* induced resistance against whitefly in cotton. *Plant Protection Science*, (Under Review as 90/2019-PPS). **Sci IF 1. 2)**
32. Kakar, A. U., Abro, M. A., **Jatoi, G. H.**, Talpur, M. S. A., Soomro, W. A., Qazi, S., Dawood, M and Baloch. A. (2020). Evaluation of different fungicides, botanical extracts and bio-control agents against *Alternaria alternata* the causal agent of leaf spot in Spinach, 17 (2):79-84
33. Keerio, A. U., Nazir, T., Abdulle, Y. A., **Jatoi, G. H.**, Gadhi, M. A., Anwar, T., & Qiu, D. (2020). In vitro pathogenicity of the fungi *Beauveria bassiana* and *Lecanicillium lecanii* at different temperatures against the whitefly, *Bemisia tabaci* (Genn.)(Hemiptera: Aleyrodidae). *Egyptian Journal of Biological Pest Control*, 30, 1-9.

34. Reki, M. A., Abro, M. A., **Jatoi, G. H.**, Gadhi, M. A., Muhammad, S., & Ali, A. (2020). Evaluation of Different Fungicides, Botanical Extracts, and Biocontrol Agents Against *Penicillium Expansum* The Causal Agent Of Blue Mold Of Apple. *Pakistan Journal of Biotechnology*, 17(1), 25-31.
35. **Ghulam Hussain Jatoi**, Shar Muhammad, Wazir Ali Metlo, Laith Khalil Tawfeeq Al-Ani, Haseenullah, Manzoor Ali Abro, Muswar Ali Gadhi, Naveed Wahid Awan, Manzoor Ahmed Reki. (2020). Efficacy of different essential oils, fungicides and biocontrol agents against *Aspergillus niger* the causal agent of fruit rot in Pomegranate. *Int. J. of Biosci.* 16 (3):51-65 (HEC Y)
36. Wazir Ali Metlo, **Ghulam Hussain Jatoi**, Naveed Wahid Awan, Qurat-ul-Ain Shaikh, Hidayatullah, Ghulam Sarwar Channa, Muneer Ali Bhagat, Muhammad Haroon Hulio, Sultan Hmed Metlo. (2020). First record of *Fusarium solani* (Mart.) sacc. associated with sudden decline disease of date palm (*Phoenix dactylifera* L.) in Khairpur, Sindh, Pakistan *Int. J. of Biosci.* 16 (3):122-128 (HEC Y)
37. Wazir Ali Metlo, **Ghulam Hussain Jatoi**, Ghulam Sarwar Channa, Naveed Wahid Awan, Manzoor Ali Abro, Hidayatullah, Muneer Ali Bhagat, Muzamil Hussain Memon, Muhammad Ibrahim Chandio, Ayesha Siddiqua. (2019). Pathogenicity test of different fungi on date palm causing sudden decline disease of date palm (*Phoenix dactylifera* L.) in Khairpur, Pakistan, *Int. J. Biosci.* 15(6), 89-96 (HEC Y)
38. Manzoor Ali Abro, Xiang Sun, Xingchun Li, **Ghulam Hussain Jatoi** and Liang-Dong Guo. (2019). Biocontrol potential of fungal endophytes against *Fusarium oxysporum* f.sp. *Cucumerinum* causing wilt in cucumber. *The Plant Pathol. J.* 35(6) 598-608 **Sci IF 1. 60**
39. Hassan Saeed Mengal, Manzoor Ali Abro, **Ghulam Hussain Jatoi**, Gul Bahar Poussio, Lubna Nawab, Nazir Ahmed, Abdul Qayyum Zehri, Ahmed Ali. (2019). Efficacy of different fungicides, botanical extracts and bio-control agents against *Cladosporium cladosporioides*, the causal agent of Cladosporium rot in Grapes. *Acta Ecologica Sinica*. <https://doi.org/10.1016/j.chnaes.2019.08.002> **Sci IF. 1.1**
40. **Ghulam Hussain Jatoi**, Guo Lihua, Yang Xiufen, Muswar Ali Gadhi, Azhar Uddin Keerio, Yusuf Ali Abdulle, Dewen Qiu. (2019). A novel protein elicitor PeBL2, from *Brevibacillus laterosporus* A60, induces systemic resistance against *Botrytis cinerea* in tobacco plant. *The Plant Pathol. J.* 35(3):1-11. **Sci IF 1. 60**
41. Shabana Memon, Naveed Iqbal, Fareeha Zaman, Sadaf Memon, Manzoor Ali Abro and **Ghulam Hussain Jatoi**. (2018). Heritability estimates in F₂ segregating population in hexaploid wheat (*Triticum aestivum* L.). *Pak. J. Biotechnol.* 15(3) 803-810.
42. Muswar Ali Gadhia Zubair Ahmed Nizamani **Ghulam Hussain Jatoi** Manzoor Ali Abro Azhar Uddin Keerio Gul Bahar Poussio Dewen Qiu. (2019). In-vitro efficacy of bio-control agent and essential oils against leaf blight of chickpea caused by *Alternaria alternate*. *Acta Ecologica Sinica*. <https://doi.org/10.1016/j.chnaes.2018.11.002> **Sci IF. 1.1**
43. **Ghulam Hussain. Jatoi**, Azhar ddin Keerio, Yousif Abdali Qiu Dewen. (2018) Efficacy of selected Fungicides and Bio-Pesticides on the mycelial colony growth of the *Helminthosporium oryzae* Brown spot disease of rice. *Acta Ecologica Sinica*, 39(6), 456-460. <https://doi.org/10.1016/j.chnaes.2018.09.018> **Sci IF. 1.1**
44. Sadam Hussain Bhutto, Javed Asghar Tarique, Jamal-U-Ddin Hajano,, Rehana Naz Syed, **Ghulam Hussain Jatoi**, Qurban Ali Rattar and Zeeshan Ghulam Nabi Gishkori. (2018) Some biochemical characterization against *Xanthomonas oryzae* pv. *oryzae* cause bacterial leaf blight of rice. *Pak. J. Biotechnol* 15 (2) 429-434
45. Adnan Baloch, Shah Dad, Rehmat Ali Baloch, **Ghulam Hussain Jatoi**, Muhammad Anwar, Zaheer Uddin Babar Bhatti. (2018). Effect of medium, temperature and ph, on *In-vitro* growth of *Botryodiplodia theobromae* isolated from Guava. *Pak. J. Biotechnol.* 15 (1): 123-127.
46. Sadam Hussain Bhutto, Javed Asghar Tariq, Rehana Naz Syed and **Ghulam Hussain Jatoi**. (2018). Isolation and characterization of bacteria isolated from the rice crop in lower Sindh *Pak. J. Biotechnol.* 15(1):151-154

47. Faisal Adnan, Ahmed Khan, Umar Zaib, Nisar Ahmed, Abdul Salam and **Ghulam Hussain Jatoi**. (2017). Surveillance of apple canker and identification of canker pathogen in apple orchards at district ziarat (Balocistan). Pak. J. Biotechnol. 14 (4) 771-775
48. M.A. Mugheri, A.W. Baloch, M. Baloch, T.A. Yasir, N. Gandahi, **G.H. Jatoi**, A.M. Baloch, M. Ali, I.A. Baloch (2017) Genetic Diversity Analysis Through Phenotypic sssessment in BT-Cotton Germplasm, Sindh Univ. Res. Jour. Sindh Univ. Res. Jour. (Sci. Ser.) 49(004) 739-742
49. Nazir Ahmed Abro, Manzoor Ali Abro, Imran Khatri, **Ghulam Hussain Jatoi**, Rehana Kandhro, Shabana Naz Mazari (2017). Relative field abundance of gram pod borer *Helicoverpa armigera* (hub.) On different chickpea genotypes and its laboratory rearing on some natural hosts Pak. J. Biotechnol. 14(3):443-447
50. Adnan Baloch, Manzoor Ali Abro, **Ghulam Husain Jatoi**, Nazir Ahmed Abro, Shah Dad, Mohammad Rafique, Rahmat Ali, Shabana Memon and Naimatullah Mangi. (2017). *In -vitro* evaluation of different fungicides and the bio-control agent *Trichoderma harzianum* against *Botryodiplodia theobromae*, the cause of Guava decline, Pak. J. Biotechnol. 14(3): 491-496.
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