

## **CURRICULUM VITAE OF DR. MARIUM TARIQ**

**Full Name:** Marium Tariq,      *Family name: Tariq; First Name: Marium*  
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**Institute:** *M.A.H. Qadri Biological Research Centre, University of Karachi.*  
**Position:** *Research Officer equivalent to Lecturer*  
**Place and Date of Birth:** *Born in 1983 in Karachi city of Sindh Province, Pakistan*  
*H.E.C. approved Ph.D supervisor by the Higher Education Commission of Pakistan*  
**Managing Curator Fungi of Pakistan**      *Website: fungiofpakistan.com*

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### **Research Interest**

Isolation and identification of seed-borne fungi or rhizosphere of different plant species.  
Bio-formulation of plant species to observe its biofertilizer and biopesticidal potential,  
Biological control of root rot and root-knot nematodes.

### **Research Experience**

- *Faculty in Talented Young Scientist Program (TYSP) at Department of Agricultural Engineering, College of Engineering, China Agricultural University, District Beijing (from 1<sup>st</sup> November 2023 to date).*
- *Lecturer in M.A.H. Qadri Biological Research Centre, University of Karachi (from 10<sup>th</sup> March 2018 to date).*
- *Research Officer in M.A.H. Qadri Biological Research Centre, University of Karachi (from 17<sup>th</sup> March 2014 to ) 9<sup>th</sup> March 2018).*
- *Indigenous 5000 PhD fellowship (HEC) for the year (3<sup>rd</sup> January 2011 – 31<sup>st</sup> December 2012).*
- *Research officer in H.E.C. funded research project (From 1<sup>st</sup> August 2005 to 31<sup>st</sup> July 2008).*
- *M.Sc Thesis (Research Work) on “Studies on the seed borne fungi of Soybean [Glycine max (L.) Merrill]” (From 1<sup>st</sup> June to 29<sup>th</sup> December, 2004).*

### **Professional Training/Education:**

*September 2013, Ph.D, University of Karachi.*

***Ph.D Dissertation: Mangroves in the control of root rot and root-knot diseases of crop plants***

### **Awards**

- *Research Productivity Award (2011-2012; 2012-2013) by Pakistan Council of Science and Technology (PCST).*
- *KU research fellowship for Ph. D. (2009)*

**Research Grant:** *Dean Research grant for 2021-22 (KURP), approved grant Rs.150000/- entitled “Application of some Phenolic compounds for management of seed destroying Fungi of Guar (Cyamopsis tetragonolaba L.)”*

### **Training/ Workshops**

- *Participated post-symposium workshop (23-24<sup>th</sup> February, 2012) on Omics Research: Road map for future “Exploring gene expression” organized by National Center for Proteomics, University of Karachi.*

- Workshop on Women Harassment from 17-19<sup>th</sup> April 2015 jointly organized by the Office of the Registrar and Higher Education Commission.
- Attended a day workshop on “Endnote” organized by Pakistan Scientific and Technological Information Centre (PASTIC) Pakistan Science Foundation (PSF) held on 22 March 2018.
- Attended workshop on “Learning data analysis through SPSS” organized by Pakistan Scientific and Technological Information Centre (PASTIC) Pakistan Science Foundation (PSF) on 10-11 September 2018.

#### **Participation in Research Conferences**

- I attended the seminar on conserving biodiversity: Threats and Impact. 20<sup>th</sup> May 2010 jointly organized by Centre for Plant Conservation, Centre of Excellence in Marine Biology, Institute of Environmental Studies, Institute of Marine sciences, Department of Microbiology, and Department of Zoology.
- Attended seminar on Ostrich farming: Opening of a new horizon. 27<sup>th</sup> January 2011 organized by the Department of Agriculture & Agribusiness Management, University of Karachi and Pakistan Ostrich Company.
- Participated in 8<sup>th</sup> National Conference of Pakistan Phytopathological Society on Challenges and options for plant health management
- Participated in Seminar on Taxonomy and ecosystem of mangroves on 16<sup>th</sup> February 2012 organized by Sindh Coastal Community Development Project, Sindh Coastal Development Authority Planning & Development Department Government of Sindh collaboration with Department of Botany, University of Karachi.
- Participated in second national phycological conference on Algae for mankind on 15-17<sup>th</sup> October 2012 organized by Department of Botany, University of Karachi.
- Presented in Shameel memorial seminar on potential sea weed market in Pakistan 12-13<sup>th</sup> May 2015 organized by Department of Botany & ORIC University of Karachi, Pakistan.
- Organized and Presented in First International Conference on life science; Emerging Trends in biological sciences and genomics on 28-30<sup>th</sup> December 2015 organised by Biological Research Center & Dr. A. Q. Khan Institute of Biotechnology and genetic engineering University of Karachi. Title of presentation “Impact of seed priming with extract of *Carica papaya* (L.) plant parts in the control of root infecting fungi and growth of crop plants”.
- Participated and organized 14<sup>th</sup> National and 5<sup>th</sup> International Conference of Pakistan Botanical Society on “Climate change and phytodiversity: Challenges and opportunities” from January 15-18, 2016. Paper presented orally on “Assessment of extracellular extracts from *Bacillus* species against root infecting fungi and root-knot nematodes in *Abelmoschus esculentus* (L.) Moench”.
- Prof. Dr. Abdul Ghaffar memorial seminar on Recent trends in plant diseases and their management on August 10, 2016 organized by Department of Botany, Federal Urdu University of Arts, Science and Technology, Gulshan-e-Iqbal, Karachi. Paper presented on combined utilization of *Bacillus* species and organic amendments by some plant materials for growth promotion and management of root-knot nematode parasitism in okra (*Abelmoschus esculentus* (L.) Moench).
- Participated International conference on forestry and Environment: Challenges and Prospects organized by Department of Forestry and Range Management University of Agriculture Faisalabad and Faculty of Forestry Kastamonu University, Turkey on 21-22 November, 2016. Topic of presentation “Isolation and identification of mycoflora associated with Fenugreek seeds”.
- Participated 6<sup>th</sup> International and 15<sup>th</sup> National Conference on “Dynamic Trends in Plant Sciences: Fostering Environment” on 9-11<sup>th</sup> May 2017 held at Sardar Bahadur Khan Women’s University, Brewery Road Quetta, Pakistan. Topic for presentation “Application of

Antagonistic microorganisms along with *Thuja orientalis* L. for controlling the root pathogenic fungi”.

- Attended one day Seminar on “How to write a research proposal for getting funds” organized by Pakistan Scientific and Technological Information Centre (PASTIC) Pakistan Science Foundation (PSF) held on 4<sup>th</sup> April 2018.
- Participated in 7<sup>th</sup> International and 16<sup>th</sup> National Conference on “Plant Resources: Current trends, challenges and solutions” on 23-26 March 2018 jointly organized by Islamia College Peshawar and University of Peshawar, Pakistan. Topic for presentation “Bioformulation of *Bacillus* species for the management of destructive root-infecting fungi: a comparison with fungal bioformulation”.
- Attended Prof. Dr. Mustafa Shameel memorial seminar on “An approach to the solution of plastic pollution” organized by Office of Research, Innovation and Commercialization, University of Karachi on 23<sup>rd</sup> October 2019.
- Participated and member of organizing committee one day seminar on “Toxins and human health: Impact of drug overdose, pesticides, fungal and industrial toxins on human health” on 19<sup>th</sup> November, 2019. M.A.H.Qadri Biological Research Centre and Department of Botany, University of Karachi, Karachi-75270, Pakistan.
- Attended an international seminar on “Host pathogen interactions” on 15<sup>th</sup> July, 2021 organized by Prof. Dr. Gitta Coaker, Department of Plant Pathology, University of California Davis, USA and Prof. Dr. Shahbaz Talib Sahi, Department of Plant Pathology, University of Agriculture Faisalabad, Pakistan held at Islamia University Bahawalpur, Pakistan.
- Poster presentation in 7<sup>th</sup> International conference of Pakistan Phytopathological Society on “Phytopathology: Current scenario and future prospects. A focused strategy for food safety and security” (November 21-23, 2021) organized by Department of Plant Pathology, University of Agriculture, Faisalabad and Ayub Agriculture Research Institute, Faisalabad.
- Attended and member of organizing committee in seminar on “Plants and environmental protection” on 2<sup>nd</sup> February, 2022 organized by Department of Botany, University of Karachi, Pakistan.
- Attended and member of organizing committee in seminar on “Ecosystem services of mangroves” on 4<sup>th</sup> August, 2022 organized by Department of Botany, University of Karachi, Pakistan.
- Attended conference on “The second China-Pakistan tropical arid non-wood forest science and technology exchange event and academic exchange meeting on efficient soil and water conservation plant China Hunan Province central South University of Forestry and Technology Pakistan Balochistan Gwadar Port” on 27-29 November, 2022
- Attended and member of organizing committee in one day seminar on “Biodiversity: Conservation, issues and Challenges” on 22<sup>nd</sup> February, 2023 organized by Department of Botany, University of Karachi, Pakistan.
- Attended and member of organizing committee in an International conference on “Saline resource management in the context of Global Climate Changes” on 23-25 February, 2023 organized by Dr. Muhammad Ajmal Khan Institute of Sustainable Halophyte Utilization, University of Karachi in collaboration with Salim Habib University, Karachi and Nuclear Institute of Agriculture, Tandojam, Sindh Higher Education Commission.
- Participated in Conference and training workshop on “Food safety and quality of rice, current scenario, challenges and prospects for improvement for improvement” on 14-15 June, 2022 at Muhammad Ali Jinnah University, Karachi.
- Participated in 7<sup>th</sup> International Conference on climate smart agriculture: innovations and adaptations on 15-17<sup>th</sup> June, 2022 organized by Faculty of Agriculture, University of Poonch Rawalakot, Azad Jammu and Kashmir-Pakistan.

- Presented (Combined use of plant growth promoting bacteria and biogas slurry to improve growth of Sorghum under saline stress conditions) in 2023 Great cycle International Symposium held at China Agricultural University on 24 November, 2023 organized by National Centre for International Research of BioEnergy Science and Technology (iBEST).

### ***Book publication***

#### **Chapter published**

- Dawar, S., I. Ahmed and **M. Tariq**. 2017. "Forest Diseases and Protection" In Textbook of applied forestry (Eds: M.T. Siddiqui and M.F. Nawaz), University of Faisalabad, Pakistan, pp: 343.

#### **Research Publications**

- Tariq, M.**, S. Dawar, M. Àbid and S .S. Shaukat. (2005). Seedborne mycoflora of Soybean. *International Journal of Biology and Biotechnology.*, 2(3): 711-713.
- Tariq, M.**, S. Dawar and F.S. Mehdi. (2005). Effect of different moisture and storage temperature on seedborne mycoflora of soybean. *International Journal of Biology and Biotechnology*, 2(4): 947-950.
- Tariq, M.**, S. Dawar and F.S. Mehdi. (2006). Location of fungi in soybean seed. *International Journal of Biology and Biotechnology.*, 3(1): 103• 105.
- Tariq, M.**, S. Dawar and F.S Mehdi. (2006). Isolation of fungi from *Avicennia marina*. *Pakistan Journal of Botany*, 38(3): 805-810.
- Tariq, M.**, S. Dawar, F.S. Mehdi and M.J. Zaki. (2006). Use of *Avicennia marina* in the control root infecting fungi in okra and mash bean. *Pakistan Journal of Botany.*, 38 (3): 811-815 (Impact factor 0.75).
- Tariq, M.**, S. Dawar and F.S Mehdi. (2006). Occurrence of fungi on mangrove plants. *Pakistan Journal of Botany.*, 38(4): 1293-1299 (Impact factor 0.75).
- Tariq, M.**, S. Dawar, F.S. Mehdi and M.J. Zaki. (2007). Use of *Rhizophora mucronata* in the control of *Meloidogyne javanica* root knot nematode on okra and mash bean. *Pakistan Journal of Botany*, 39(1): 265-270 (Impact factor 0.75).
- Dawar, S., S. Younus., **M. Tariq** and M.J.Zaki. (2007). Use of *Eucalyptus* sp., in the control of root infecting fungi on mung bean and chick pea. *Pakistan Journal of Botany.*, 39 (3): 975-979 (Impact factor 0.75).
- Dawar, S., S. Arjumand., **M. Tariq** and M.J. Zaki. (2007). Use of sea weed and bacteria in the control of root rot of mash bean and sunflower. *Pakistan Journal of Botany*, 39 (4): 1359-1366 (Impact factor 0.75).
- Tariq, M.**, S. Dawar, F.S. Mehdi and M.J. Zaki. (2007). Use of *Avicennia marina* (Forsk.) Vierh in the control of root knot nematode *Meloidogyne javanica* (Treub) Chitwood on okra and mash bean. *Turkish Journal of Biology.*, 31 (4): 225-230 (Impact factor 0.75).
- Tariq, M.**, S. Dawar, F.S. Mehdi and M.J. Zaki. (2007). Antagonistic activity of bacterial inoculum multiplied on *Rhizophora mucronata* Lamk., in the control of root infecting fungi on mash bean and okra. *Pakistan Journal of Botany*, 39 (6):2159-265 (Impact factor 0.75).
- Tariq, M.**, S. Dawar and F.S. Mehdi. (2008). Studies on rhizosphere mycoflora of mangroves. *Turkish Journal of Botany.*, 32(1): 97-101 (Impact factor 0.75).
- Dawar, S., **M. Tariq** and M.J. Zaki. (2008). Application of *Bacillus* species in control of *Meloidogyne javanica* (treub) Chitwood on cowpea and mash bean. *Pakistan Journal of Botany*, 40 (1): 439-444 (Impact factor 0.75).
- Dawar S., S. Abbas, **M. Tariq** and M.J. Zaki. (2008). *Invitro* fungicidal activity of spices against root infecting fungi. *Pakistan Journal of Botany*, 40 (1): 433-438.
- Nazim, S., S. Dawar, **M. Tariq** and M.J. Zaki. (2008). Quantitative estimation of mycoflora in drinking water and fruit juices of Karachi. *Pakistan Journal of Botany.*, 40 (3): 1263-1268.
- Tariq, M.**, S. Dawar, F.S. Mehdi and M.J. Zaki, (2008). The effect of mangroves amendment to soil on

- root rot and root knot of potato (*Solanum tuberosum* L.), *Acta Agrobotanica*, 61(1) :1 15-121,
- Tariq, M.**, S. Dawar, F.S. Mehdi and M.J. Zaki, (2008). Fertilizers in combination with *Avicennia marina* in the control of root rot diseases of mashbean and okra. *Pakistan Journal of Botany.*, 40(5): 2231-2236.
- Ahmed, Z.M., S. Dawar and **M. Tariq**. (2009). Fungicidal potential of some local tree seeds for controlling root rot diseases. *Pakistan Journal of Botany.*, 41 (3): 1439-1444.
- Abbas, S., S. Dawar., **M. Tariq** and M.J. Znki, (2009). Nematicidal activity of spices against *Meloidogyne javanica* (Treub) Chitwood. *Pakistan Journal of Botany.*, 41 (5): 2625-2632 (Impact factor 0.75).
- Sikandar, A., S. Dawar, **M. Tariq** and M.J. Zaki. (2009). Management of root diseases by combination of different soils with fertilizers. *Pakistan Journal of Botany*, 41 (6): 3219- 3225.
- Dawar, S., S. Wahab, **M. Tariq** and M,J. Zaki. (2010). Application of *Bacillus* species in the control of root rot diseases of crop plants. *Archives of Phytopathology and plant protection.*43(4): 412-418.
- M. Tariq** and S. Dawar. (2010), Impact of biocontrol bacteria with *Rhizophora mucronata* plant parts in suppression of *Meloidoone javanica* (Treub.) Chitwood on crop plants. *Archives of Phytopathology and plant protection*, 43 (8): 754-760 (Impact factor 0.75).
- Dawar, S., S. Khaliq and **M. Tariq**. (2010). Comparative effect of plant extract of *Datura alba* Nees and *Cynodon Dactylon* (L.) Pers., alone or in combination with microbial antagonists for the control of root rot disease of cowpea and okra. *Pakistan Journal of Botany*, 42(2): 1273-1279.
- Ahmed, Z. M., S. Dawar, **M. Tariq** and M. J. Zaki. (2010). Effect of local tree seeds in the control of root knot nematode *Meloidogyne javanica* (treub) chitwood and growth promotion of chickpea (*Cicer arietinum* L.) and mung bean (*Vigna radiata* L.). *Acta AgroBotanica.*, 63(1): 197-203.
- Ahmed, A., S. Dawar and **M. Tariq**. (2010). Mycoflora associated with sugar cane juice in Karachi city. *Pakistan Journal of Botany*, 42(4): 2955-2962.
- Rahim, S., S. Dawar and **M. Tariq**. (2010). Mycoflora associated with lentil (*Lens culinaris* L.) seeds of Pakistan. *Pakistan Journal of Botany.*, 42(6): 4345-4352.
- Dawar, S., M.J. Zaki, N. Ikram and **M. Tariq**. (2010). Gamma radiations (<sup>60</sup>Co) exposure and application of antagonists for the suppression of root rot diseases in sunflower (*Helianthus annus* L.) and mung bean (*Vigna radiala* L. R, Wilczek). *Our Nature.*, 8: 26-33.
- Tariq, M.** and S. Dawar. (2011). Formulation of *Avicennia marina* pellets and its application in controlling root diseases in leguminous and non leguminous plants. *Pakistan Journal of Botany.*, 43(2): 1411-1415.
- Ikram, N., S. Dawar., M.J. Zaki , **M. Tariq** and Z. Abbas. (2011). Combined use of (<sup>60</sup>Co) Gamma irradiated seeds and nursery fertilizers in the control of root rot fungi of crop plants *International Journal of Biology and Biotechnology*, 8(4): 521-527.
- Tariq, M.**, S. Dawar and M.J. Zaki. (2012). Nematicidal activity of *Avicennia marina* in different solvents fraction against *Meloldogyne javanica*. *Science, Technology and Development*, 31(2): 122-127.
- Tariq, M.**, K. Tayyab, S. Dawar and M.J. Zaki. (2012). Rhizosphere mycoflora associated with leguminous trees around Karachi University campus. *International Journal of Biology and Biotechnology*, 9(4): 429-433.
- Tariq, M.** and S. Dawar. (2012). Periodic effect of cowpea and mung bean pelleted seeds with *Avicennia marina* (Forssk.) Vierh parts powder and their contribution in the control of root knot nematode. *Pakistan Journal of Botany*, 44(6): 2123-2128.
- Tariq, M.** and S. Dawar. (2012). Mycoflora associated with *Ceriops tagal* (Rhizophoraceae) from Pakistan coast. *International Journal of Phycology and Phytochemistry*. 8(2): 145-148.
- Tariq, M.** and S. Dawar. (2013). Encapsulation of halophytic plant powder in suppression of root rot diseases. *Archives of Phytopathology and Plant Protection*, 46(1 ): 39-45.
- Dawar, S., S. Khalid and **M. Tariq**. (2013). Fungicidal effect of ultraviolet-C radiations in prevention of mycoflora of castor bean seed. *Archives of Phytopathology and plant protection*, 46(17): 2125-

- Ejaz, H., S. Dawar, **M. Tariq** and M.J. Zaki. (2013). Survey on seed borne fungi of *Punica granatum* L. (Pomegranate) seeds. *International Journal of Biology Research*, 1(1): 7-10.
- Rahim, S., S. Dawar, **M. Tariq** and M.J. Zaki. (2013). Mycoflora associated with the seed samples of *Cucurbita pepo* L. collected from Pakistan. *Pakistan Journal of Botany*, 45(6): 2173-2179.
- Dawar, S., M. Batool, **M. Tariq** and M.J. Zaki. (2014). Mycoflora in the rhizosphere of some wild plants around Karachi University campus. *Pakistan Journal of Botany*, 46(1): 369-373.
- Dawar, S., S. Khalid and **M. Tariq**. (2014). Seed borne mycoflora of castor bean (*Ricinus communis* L.). *Pakistan Journal of Botany*, 46(4): 1485-1488.
- Dawar, S., **M. Tariq** and H. Ejaz. (2014). Observation of seed borne mycoflora related with cumin (*Cuminum cyminum* L.). *International Journal of Biology Research*, 2(2): 89-92.
- Tariq, M.** and S. Dawar. (2015). Mangrove formulation for the management of *Meloidoone javanica* (Treb.) Chitwood under field conditions. *Pakistan Journal of Botany*, 47 (1): 347-352.
- Dawar, S., **M. Tariq** and F. Sultan. (2015). Fungal deterioration of cellulosic materials. *International Journal of Biology Research*, 3(1): 3-5.
- Dawar, S., **M. Tariq**, R. Qadri and F. Q. Ali. (2015). Cereals protection from soil borne root infecting fungi by the use of homeopathic drugs. *International Journal of Biology Research*, 3(1): 13-18.
- Hanif, H., S. Dawar, **M. Tariq** and F. Imtiaz. (2015). Fungicidal potential of homeopathic pellets in the inhibition of root rot fungi and for promotion of crop plants productivity. *European Journal of Biology and Medical Science Research*, 3(6): 26-39.
- Kanwal, S., S. Dawar and **M. Tariq**. (2015). Impact of seed priming with *Carica papaya* (L.) extract in the control of root infecting fungi and growth of mash bean and chick pea. *International Journal of Biology Research*, 3(2):59-63.
- Rafi, H., S. Dawar and **M. Tariq**. (2016). Combined effect of soil amendment with oil cakes and seed priming in the control of root rot fungi of leguminous and non leguminous crops. *Pakistan Journal of Botany*, 48(3): 1305-1311.
- Mohsin, N., **M. Tariq**, M.J. Zaki, M. W. Abbasi and M. Imran. (2016). Allelopathic effect of *Ficus benghalensis* L. leaves extract on germination and early seedling growth of maize, mung bean and sunflower. *International Journal of Biology Research*, 4(1): 34-38.
- Tariq, M.**, S. Tufail and S. Dawar. (2016). Salts effect on germination and seed borne fungi of Fenugreek (*Trigonella foenum graecum* L.) during storage. *International Journal of Biology Research*, 4(1): 39-43.
- Abbasi, M.W., **M. Tariq**, M. Qasim and M.J. Zaki. (2017). Assessment of extracellular metabolites from *Bacillus* species against root-knot nematodes and root-infecting fungi in *Abelmoschus esculentus* (L.) Moench. *Pakistan Journal of Botany*, 49(SI): 289-294.
- Dawar, S., **M. Tariq** and S. Aslam. (2017). Mycoflora associated with Raisins (*Vitis vinifera* L.) collected across Pakistan. *Pakistan Journal of Botany*, 49(5): 1975-1979.
- Kanwal, S., S. Dawar, **M. Tariq** and F. Imtiaz. (2017). Exposure of technetium-99M (TC99M) on seeds of some crops for the management of root infecting fungi. *Pakistan Journal of Botany*, 49(2): 763-768.
- Tariq, M.**, S. Dawar and H. Sarfaraz. (2017). Utilization of microbial antagonists with *Thuja orientalis* L. for control of pathogenic fungi. *International Journal of Biology Research*, 5(1): 15-20.
- Rehman, U., **M. Tariq**, S. Dawar and Z.S. Siddiqui. (2018). Isolation, identification and control of mycoflora associated with paddy. *International Journal of Biology and Biotechnology*, 15(1): 115-123.
- Dawar, S., **M. Tariq** and H. Sarfaraz. (2018). Organic and inorganic fertilizers along with *Thuja orientalis* L. for control of root colonizing fungi. *Pakistan Journal of Botany*, 50(3): 1253-1258.
- Kanwal, S., **M. Tariq** and S. Dawar. (2018). Effect of microwave radiation on plants infected with root rot pathogens. *Pakistan Journal of Botany*, 50(6): 2389-2393.
- Dawar, S., **M. Tariq** and A. Irshad. (2018). Osmopriming effects on germination, growth and root rot

- diseases. *International Journal of Biology Research*, 6(1): 43-48.
- Dawar, S., **M. Tariq** and L. Zehra. (2019). Effect of herbicides and microbial antagonists impacts on root pathogenic fungi and growth of crop plants. *International Journal of Biology Research*, 70): 39-45.
- Dawar, S., **M. Tariq** and L. Zehra. (2019). Herbicides effectiveness against root rot fungi and growth of crop plants. *International Journal of Biology and biotechnology*, 16(4): 951-959,
- Abbasi, M.W., M.Q. Khan, M.J. Zaki, S.S. Shukat, A. Rauf, M. Azeem. N. Ahmed. and **M. Tariq**. (2019). Soil application of *Bacillus thuringiensis* Berliner isolates against root-knot nematode (*Meloidogyne javanica* (Treub) Chitwood) in okra (*Abelmoschus esculentus* (L.) Moench). *Acta Phytopathologica et Entomologica Hungarica*, 54(2): 173-186.
- Askar, A., M.W. Abbasi, M. Azeem, M. Hamayun, M. Arif, M. Shah, **M. Tariq** and H. Gul. (2020). Isolation and evaluation of halotolerant rhizobacteria from *Xanthium strumarium* L. as PGPR. *Pakistan Journal of Botany*, 52(3): 1105-1113.
- Dawar, S., **M. Tariq**, Z.S. Siddiqui and N. Bashir. (2020). Impact of chemical priming on root infecting fungi, photosynthesis and yield components of cowpea and mung bean. *Pakistan Journal of Botany*, 52(6): DOI: [http://dx.doi.org/10.30848/PJB2020-6\(7\)](http://dx.doi.org/10.30848/PJB2020-6(7))
- Maqbool, A., **M. Tariq**, A. Hanif and S. Dawar. (2020). Efficacy of *Parkinsonia aculeate* and *Cassia fistula* with selected microbial antagonists for the improvement of growth and reduction in root diseases. *International Journal of Biology Research*, 8(1 & 2): 35-42.
- Ejaz, H., **M. Tariq** and S. Dawar (2021). Antifungal activity of selected halophytes against root pathogenic fungi. *International Journal of Biology and Biotechnology*, 18(1): 113-118.
- Moin, S., M.W. Abbasi, N. Ahmed, A. Rauf, M. Azeem, **M. Tariq** and M.J.Zaki. (2021). Short term exposure with ultraviolet radiations: A strategy to improve resistance against root infecting fungi in *Luffa cylindrica* (L.) Roem. *Acta Ecologica Sinica.*, 41 (2): 157-163.
- Dawar, S., **M. Tariq** and Farheen. (2021). Fungal flora of *Hordeum vulgare* L. and effect of ultra violet C radiations on it. *Karachi University Journal of Science*, 49(1-2): 73-81.
- Kanwal, S., **M. Tariq**, S. Dawar and Z.S. Siddiqui. (2022). Electromagnetic radiations and microbial antagonists potential on yield and physiology of sunflower. *Pakistan Journal of Botany*, 54(2): 717-722.
- Mubashar Raza, M., L. Cail, M.W. Abbasi, R. Hafeez, **M. Tariq**, P.M. Kirk, M. Hussain and N.N. Wijayawardene. (2022). The first updated checklist of novel fungi in Pakistan (1947-2021). *MycosAsia- Journal of modern mycology*.
- Nawaz, M., M.W. Abbasi, **M. Tariq**, J.P. Graham, A.R.S. Al-Hagri, A.A. Elkarim, M.E. Mohamed, V. Nissapatorn, M. Taha and S. Hisaindee. (2022). Synthesis of metal anthranilate complexes: catalytic and antipathogenic studies. *BMC Chemistry*, 16:21 pp 1-14. <https://doi.org/10.1186/s13065-022-00817-x>
- Jabeen, S., **M. Tariq**, A. Hanif and S. Dawar. (2022). Improvement of crop plants growth using *Medicago sativa* L. with organic and inorganic fertilizers. *International Journal of Biology and Biotechnology*, 19(4): 525-531.
- Shaheer, M.J., **M. Tariq**, A. Hanif and S. Dawar. (2022). Effect of light of different colours on growth and colonization of root rot pathogens of mung bean. *International Journal of Biology Research*, 10(1): 53-55.
- Mubashar Raza, M., I. Cail, M.W. Abbasi, **M. Tariq**, and N.N. Wijayawardene. (2022). Fungi of Pakistan: multiplex to one ring online resources, Database. *The Journal of Biological Databases and Curation*, 1-12, DOI: <http://doi.org/10.1093/database/baab080>
- Saleem, R., A. Sana, Y. Ghani, F. Mushtaq, R. Abid, J. Alam, **M. Tariq**, S. Dawar, R. Sultana and S. Faizi. (2023). Chemical characterization, nematicidal and antioxidant activities of *Thymus linearis* Benth. *Pakistan Journal of Pharmaceutical Sciences*, 36(5): 1561-1571.
- Jabeen, S., **M. Tariq**, R. Abid, A. Hanif, K. Shehzad, M.W ur Rehman, S. Dawar, D.A. Dias, K.M. Alarjani and Z. Abideen. (2024). Application of powdered *Medicago sativa* L. enhances eco-physiological output and protect against root rot fungi disease in okra and cowpea. *Scientia*

