



Dr. Tariq Masood
Associate Professor

CURRICULUM VITAE TARIQ MASOOD, PhD

The University of Agriculture Peshawar, Khyber Pakhtunkhwa 25130, Pakistan.

Date of Birth: 2nd April, 1980
Mailing/Postal Address: Room 129, Department of Agricultural Chemistry & Biochemistry, The University of Agriculture Peshawar, 25130, Pakistan.
Nationality Pakistani
Contact: +92 334 9063446
Email: tariqafri@aup.edu.pk / tmafridi@gmail.com
Google Scholar: https://scholar.google.com/citations?hl=en&view_op=list_works

EDUCATION

- **PhD:** Agricultural Chemistry, The University of Agriculture Peshawar, Pakistan. **Dec, 2013**
- **M.Sc. (Hons):** Agricultural Chemistry, The Univ. of Agriculture Peshawar, Pakistan. **Jan, 2005**
- **B.Sc. (Hons):** Agricultural Chemistry, The Univ. of Agriculture Peshawar, Pakistan. **Jan, 2003**

PROFESSIONAL EXPERIENCE

•	Associate Professor: The University of Agriculture Peshawar, Pakistan.	(2026 to date)
•	Assistant Professor: The University of Agriculture Peshawar, Pakistan.	(2017 to 2026)
•	Lecturer: The University of Agriculture Peshawar, Pakistan.	(2014 to 2017)
•	Assistant Director Planning: Directorate of Agricultural Research Khyber Pakhtunkhwa Province, Pakistan	(2012 to 2014)
	Research Officer: Agricultural Research Institute Tarnab Peshawar.	(2005 to 2012)

HONORS AND AWARDS

1. **Postdoctoral Fellowship (Talented Young Scientist Program)** (2019-2020) at Haikou Experimental Station, Chinese Academy of Tropical Agricultural Sciences (CATAS), P.R. China sponsored by Ministry of Science and Technology China.
2. **Visiting Research Fellowship (2011)** at Nanjing Agricultural University, P.R. China sponsored by Higher Education Commission (HEC) of Pakistan through IRSIP.
3. **Indigenous PhD Fellowship (2005-2008)** funded by HEC Pakistan.
4. **Higher Education Outstanding Research Award 2012** as one of the co-authors in a research article.

RESEARCH STUDENTS SUPERVISED/BEING SUPERVISED

- PhD = 01 (Under Supervision as Major Supervisor)
- M. Sc. (Hons)/M.Phil. students = 08 Supervised as Major Supervisor and 05 under supervision)
- B. Sc. (Hons) Students = 13 supervised as Major Supervisor

COURSES THOUGHT AT GRADUATE AND POST GRADUATE LEVEL

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|---|------------------------------------|
| 1. Introduction to Agricultural Chemistry | 2. Biomembranes and cell signaling |
| 3. Food Biochemistry | 4. Food Chemistry & Technology |
| 5. Nutritional Biochemistry | 6. Fundamentals of Phytochemistry |
| 7. Bioenergetics | 8. Current Trends in Biochemistry |
| 9. Advances in endocrinology | 10. Research Methodology |

RESEARCH INTERESTS

- Enhancing food security by improving food quality, nutritional value, and safety through innovative food processing techniques.
- Exploration of indigenous medicinal and aromatic plants for the extraction, characterization, and evaluation of bioactive compounds.
- Physicochemical, nutritional, and quality assessment of fruits and vegetables to improve their quality, shelf life, and nutritional attributes.

ADMINISTRATIVE AND ACADEMIC SERVICES

1. Reviewer, few journals of national and international repute.
2. Focal person for the Quality Enhancement Cell of The University of Agriculture Peshawar.
3. Member of the Board of studies, Department of Agricultural Chemistry & Biochemistry
4. Member of the proctorial board of the university

PROFESSIONAL RECOGNITION

i. Membership of National/International Bodies

1. Annual Member of Pakistan Society of Food Scientists and Technologist.
2. Life-member of Chemical Society of Pakistan
3. Annual Member of Soil Science Society of Pakistan.

ii. Research grants and contracts

- A value chain on production of food-grade nutraceuticals for use as natural food colorants” conducted as Co-PI (Rs. 0.5 million): Status: Completed.
- Exploring non-toxigenic fungal strains for the control of aflatoxin contamination in maize crop conducted as Co-PI (Rs. 3.50 million) by Higher Education Commission of Pakistan. Status: Completed.

iii. Conferences/Workshops/Trainings/Symposia Participated

- Guidance Session On NRPU Call 2026-27, Research Grant-administration and financial guidelines September 30, 2026 at Air University Aerospace and Aviation Campus Kamra.
- “Generative AI: Empowering Modern Education” an online course authorized by IBM and offered through Coursera by IBM. July 30, 2026.
- Assessment in Higher Education: Professional Development for Teachers. an online course authorized by Erasmus University Rotterdam and offered through Coursera. July 24, 2026.
- “Generative AI in Education” an online course authorized by University of Glasgow and offered through Coursera by University of Glasgow. July 19, 2026.
- “Communication and Soft Skills” course under DigiSkills Training Program. Virtual University Islamabad. DSTP3.0-Batch-02 Dec 2025-Mar 2026.
- One day Workshop on mental health organized by department of rural sociology, the University of Agriculture Peshawar. November 19, 2025.
- One day training workshop “PSF (NSLP) Concept paper preparation & submission,” organized by ORIC, The University of Agriculture Peshawar. November 2, 2022.
- Training workshop on “Preparation of self-assessment document for review effectiveness of quality assurance and accreditation bodies (REQAAB), by Directorate of Quality Assurance, the University of Agriculture Peshawar, Pakistan. June 7, 2024.
- Awareness workshop on “Program review effectiveness and enhancement-Role and Responsibilities” organized by Directorate of quality Assurance, The University of Agriculture Peshawar, Pakistan. December 23, 2024.
- Nutrition in emergency One-week Training Workshop organized by Health Department in collaboration with UNICEF at Abbottabad. 13-17 August 2018.
- “Advances in Agricultural Chemistry” One-day symposium organized by the Deptt. Agricultural Chemistry, The University of Agriculture, Peshawar, 8th May, 2018.
- “26th Master Trainers Faculty Professional Development Program” at HEC Islamabad. 16-11-2015 to 15-01-2016.
- Two-days workshop on project formulation organized by Pakistan Science Foundation at The University of Agriculture Peshawar. 27-28, April. 2016.

- Four days conference on “Innovative Technologies and Sustainable Development in Agriculture” at Summer Campus Bara Gali, University of Peshawar. August 19-22. 2014.

iv. PUBLICATIONS

- ❖ Muhammad Uzair Asghar Afridi, **Tariq Masood**, Muhammad Arif, Zafar Ali Shah, Muhammad Samiullah, Bilal Khan and Kiran Afridi. **2026**. Nutritional Composition and Sensory Acceptability of Flatbread Prepared from Different Multigrain Flour Blends. *Food and Nutrition Insights*. 4(2): 49-59.
- ❖ Muhammad Arif, Yusra Adil, Fahdullah Shakir, Raees Khan, Zafar Ali Shah, **Tariq Masood**, Muhammad Yasir. **2026**. Relationship of C-Reactive Protein with Diet, Physical Activity and Anthropometric Measurement in School going Female Children. *The Research of Medical Science Review*. 4(3): 1124-1138.
- ❖ Muhammad Shafiq; Niaz Wali; Naqib Ullah; Abdullah Khan; Shaaban M. Shaaban; Anisa Qamar; **Tariq Masood**; Obaydur Rahman. **2026**. A cost-effective low-frequency powered plasma ozonation system for postharvest microbial control under vacuum condition. *AIP Advances* 16, 055212.
- ❖ Muhammad Raees Khan, Waliullah Shah, Addas Ahmed, Hamza Iftikhar, Afsar Ali, Muhammad Talha, Muhammad Muzzamil, **Tariq Masood** and Zafar Ali Shah. **2026**. Soil Fertility Management and Insect Pest Dynamics in Organic Vegetable Systems of Peshawar: An Integrated Approach. *Global Research Journal of Natural Science and Technology*. 4(1):
- ❖ Muhammad Arif, Waqas Fazal, Zafar Ali Shah, Raees Khan, **Tariq Masood**, Touseef Tahir, Zarafshan Zeb. **2025**. Dietary Patterns and their association with blood pressure among Adult Males in district Swat. *The Research of Medical Science Review*. 3(12): 1389-1405.
- ❖ Muhammad Arif, Maliha Javed, Raees Khan, **Tariq Masood**, Masood Ahmad, Zafar Ali Shah and Kiran Afridi. **2025**. The effect of iron bio-fortification on the nutritive value of kitchen mint (*Mentha spicata*). *Pure Appl. Biol.* 12(2):1378-138.
- ❖ Muhammad Arif, Maliha Javed, Raees Khan, **Tariq Masood**, Masood Ahmad, Zafar Ali Shah and Kiran Afridi. **2025**. The effect of iron bio-fortification on the nutritive value of kitchen mint (*Mentha spicata*). *Pure and Applied Biology*. 14(3): 936-945.
- ❖ Ata Ullah, **Tariq Masood**, Zafar Ali Shah, Azmat Ali Awan, Sahib Alam, Nasiruddin, Muhammad Arif and Muhammad Arabi Awan. **2025**. The Effects of Storage and Maturity Index on the Quality of Virgin Olive Oil from “Pendolino” Cultivar Produced in Nowshera, Pakistan. *Sarhad Journal of Agriculture*, 41(1): 88-99.

- ❖ Sadaf, Muhammad Arif, Touseef Tahir, Shahbaz Khan, **Tariq Masood**. **2024**. Incorporation of Carrot Pomace in Cookies and its Impact on Glycaemic Response and Satiety Level of Healthy Individuals. *The Research of Medical Science Review*. 2(3): 373-379.
- ❖ Raees Khan, Muhammad Arif, **Tariq Masood**, Masood Ahmad, Zafar Ali Shah, Muhammad Ilyas and Maliha Javed. **2023**. The effect of selenium bio-fortification on the nutritive value of kitchen mint (*Mentha spicata*). *Pure Appl. Biol.*, 12(2):1378-138.
- ❖ Abdul Wahab, **Tariq Masood**, Azmat Ali Awan, Muhammad Waqas Aslam Cheema, Muhammad Arabi Awan, Zafar Ali Shah, Javed Iqbal, Muhammad Arif and Wahid Gul. **2023**. Effect of Various Agro-Climatic Conditions on the Quality and Quantity of Olive Oil. *GU. J. Phytosci*. 3(2): 81-87.
- ❖ Amjad Ali, Li Hongbin, Li Rong, Sara Zahid, Nasir Uddin, Anis Safir, **Tariq Masood**, Waqas Safir. **2022**. Physiological and Biochemical analysis of Asa-Gsh antioxidant system of Sea-Island Cotton in response to *Verticillium Dahliae*. *The Journal of Microbiology and Molecular Genetics (JMMG)* 3 (3): 31-55.
- ❖ Zafar Ali Shah, Khalid Khan, Zafar Iqbal, **Tariq Masood**, Hassan A. Hemeg and Abdur Rauf. **2022**. Metabolic and pharmacological profiling of *Penicillium claviforme* by a combination of experimental and bioinformatic approaches. *Annals of Medicine*. 54(1): 2102–2114.
- ❖ Nasiruddin, Guangying Chen, Xiaobao Li, Ji Minghui, **Tariq Masood**, Waqas Safir, Muhammad Ali Khan, Muhammad Numan, Arsalan Khan, Muhammad Zeeshan and Shah Zeb. **2022**. Comparison of Phytochemical Constituents and Pharmacological Activities of Various Solvent Extracts Obtained from *Millettia speciosa* Stem Powder. *BioMed Research International*. <https://doi.org/10.1155/2022/2486979>.
- ❖ Nawaz Ali, Ishrat Naz, **Tariq Masood**, Muhammad Naseer Khan, Raja, Asad Ali Khan. Management of Root Knot Nematode, *Meloidogyne Incognita* (Kofoid and White) Chitwood on Tomato Using Extracts of *Rhazya Stricta* Decne (Apocynaceae). **2021**. 1st 1st International Hybrid Mode Conference on Emerging Innovate Research Trends in Biology.
- ❖ Shahida Sabir, Anwar Ali Shad, **Tariq Masood**, Zafar Ali Shah, Nasiruddin, Yaseen Ahmad and Sartaj Alam. **2021**. The biocidal investigation of various extracts of *Pleurotus Eryngii* cultivated on a substrate supplemented with a Medicinal Plant. *Sarhad Journal of Agriculture*. 37(4): 1144-1155.
- ❖ Ma Funing, **Tariq Masood**, Huang Dongmei, Wu Bin, Ge Yu, Chen Di, Gutierrez-Pajares Jorge L, Nasiruddin, Song Shun. **2021**. Inhibitory Activity of Fruits Extracts of *Antidesma buniis* on the Proliferation and Migration of MDA-MB-231 Breast Cancer Cells. *Journal of Food and Nutrition Research*. 9(2): 61-67.

- ❖ Ishrat Naz, Raja Asad Ali Khan, **Tariq Masood**, Ayesha Baig, Ifra Siddique and Shamsul Haq. **2020**. Biological control of Root Knot nematode, *Meloidogyne incognita*, *in vitro*, greenhouse and field in cucumber. *Biological Control*. 152: 104429.
- ❖ Nasiruddin, Minghui Ji, Zhangxin Yu¹, Guangying Chen, **Tariq Masood**, Funing Ma. **2020**. Chemical Constituents and Biological Functions of Different Extracts of *Millettia speciosa* Leaves. *Journal of Food and Nutrition Research*. 8(9):506-515.
- ❖ Marya Siraj, Zafar Ali Shah, Sami Ullah, Hamida Bibi, Muhammad Suleman, Afia Zia, **Tariq Masood**, Zafar Iqbal, Mudassar Iqbal. **2020**. Biosynthesized silver nanoparticles from shoot and seed extracts of *Asphodelus tenuifolius* for heavy metal sensing. *ScienceAsia*. 46: 697–705.
- ❖ Babar Tasim, **Tariq Masood**, Zafar Ali Shah, Muhammad Arif, Ata Ullah, Ghazal Miraj and Muhammad Samiullah. **2019**. Quality Evaluation of Biochar Prepared from Different Agricultural Residues. *Sarhad Journal of Agriculture*, 35(1): 134-143.
- ❖ **Tariq Masood**, Hamid Ullah Shah and Aurang Zeb. Effect of sprouting time on proximate composition and ascorbic acid level of Mung bean (*Vigna radiate* L.) and Chickpea (*Cicer arietinum* L.) seeds. **(2014)**. *Journal of Animal and Plant Sciences*. 24 (3): 850-859.
- ❖ Nasiruddin, **Tariq Masood**, Muhammad Arif, Syed Sadaqat Shah, Noreen Azhar and Saifullah. **(2012)**. Nutritional content of some medicinal herbs of Peshawar district, Pakistan. *Sarhad J. Agric*. 28(4): 635-639.
- ❖ Muhammad Nauman Ahmad, Leon J.L. van den Berg, Hamid Ullah Shah, **Tariq Masood**, Patrick Büker, Lisa Emberson, Mike Ashmore. **2012**. Hydrogen fluoride damage to vegetation from peri-urban brick kilns in Asia: A growing but unrecognised problem? *Environmental Pollution* 162 (2012) 319-324.
- ❖ **Tariq Masood**, Rozina Gul, Fazal Munsif, Fazal Jalal, Zahid Hussain, Nadia Noreen, Hamayoon Khan, Nasiruddin and Hayatullah Khan. **2011**. Effect of different Phosphorus Levels on the Yield and Yield Components of Maize. *Sarhad J. Agric*. Vol.27(2): 167-170.
- ❖ Nadia Noreen, Hamidullah Shah, Farida Anjum, **Tariq Masood** and Sulaiman Faisal. **2009**. Variation in mineral composition and Phytic acid content in different rice varieties during home traditional cooking processes. *Pak. j. life soc. sci*. 7(1):11-15.
- ❖ Farida Anjum, Barkat Ali Khan, Nadia Noreen, **Tariq Masood** and Sulaiman Faisal. **2008**. Effect of Boiling and Storage on Beta-Carotene Content of Different Vegetables. *Pak. j. life soc. sci*. 6(1): 63-67.

CONFERENCE PAPERS

1. S Song, **T. Masood**, D M Huang, B Wu, Y Xu, Y Teng, Y Wang, X Y Jiang, X Q Long and F N Ma. **2020**. Advances in configuration and genetics of crops for efficient use of water and nutrients in soil. IOP Conf. Series: Earth and Environmental Science. 594.

RESEARCH THESIS/DISSERTATION

2005-2013 Nutritional and Biochemical changes in mung bean (*vigna radiata*) and chickpea (*cicer arietinum*) during sprouting” **Ph.D.**, Agricultural Chemistry, The University of Agriculture Peshawar.

2002-2004 Assessment of morphological and quality parameters in Bread Wheat versus Triticale **M.Sc. (Hons)**, Agricultural Chemistry, NWFP Agricultural University Peshawar.

LABORATORY SKILLS

Hands on experience on spectrophotometer, flame photometer, AAS, HPLC.

COMPUTER SKILLS

MS-Office, SPSS, Statistix 8.1, Endnote, Chem Draw