

# CURRICULUM VITAE

## DR TASIR SHARIEF PER

Assistant Professor  
Department of Botany  
Govt Degree College Kilhotran  
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Researchgate: [https://www.researchgate.net/profile/Tasir\\_Per](https://www.researchgate.net/profile/Tasir_Per)

Google Scholar: [https://scholar.google.co.in/citations?hl=en&pli=1&user=\\_WSM14kAAAAJ](https://scholar.google.co.in/citations?hl=en&pli=1&user=_WSM14kAAAAJ)

### Academic Credentials:

COURSE	BOARD/UNIVERSITY	DIVISION	PERCENTAGE	YEAR
Ph. D. (Botany)	A.M.U	-		2017
M. Sc. (Botany)	A.M.U	First	74.3	2011
B. Sc.	Jammu University	First	73.6	2009
Intermediate	JK Board	First	73.0	2006
High School	JK Board	Distinction	82.8	2004

**Ph.D. Research Topic:** Developing Methods for Reducing Adverse Effects of Cadmium Toxicity in Mustard: The Importance of Sulphur and Phytohormones

### AWARDS & CERTIFICATIONS

Council of Scientific and Industrial Research- National Eligibility Test for Lectureship  
CSIR-NET (Life Sciences) : 2012, 2013  
JKSET (Life Sciences): 2016  
GATE (Life Sciences): 2016  
Junior Research Fellow (DBT-BUILDER Programme): 2013  
Senior Research Fellow (DBT-BUILDER Programme): 2015

### PUBLICATION SUMMARY

Publications: 30  
Total Impact points: 75.4  
Total Citations 887  
Papers in Journals of High Impact Factor:  
Impact factor (2-5): 17  
Impact factor (1-2): 02  
Impact factor (less than 1): 05  
Book Chapters Published: 04  
Papers Presented at Conferences: 06  
International:  
    Abroad (SPAIN and NEPAL: Oral Presentation) 02  
    Within India 05  
National: 05

**Research experience:**

- Completed dissertation on the topic “Effect of brassinosteroid on the germination and growth of mustard exposed to cadmium” during Master’s degree programme in the Department of Botany, A.M.U., Aligarh.
- Worked as JRF in DBT-BUILDER programme in the Department of Botany under Prof. Nafees A. Khan. From 21.03.2013 till 20.03.2015.
- Working as SRF in DBT-BUILDER programme in the Department of Botany under Prof. Nafees A. Khan. From 21.03.2015 till date.
- Certificate Course in Computer Application from Duty Society Computer Centre, Aligarh Muslim University, (part-time course), Aligarh, Uttar Pradesh, India.

**Seminar presentation:** Delivered a seminar lecture on the following topics during Masters programme:

- Plant Growth Regulators
- Uptake of Phosphorus in plants and signaling

**List of Publications****Research Papers in Journals with Impact Factor 2-5**

1. **Tasir S. Per**, Nafees A. Khan, Asim Masood, Mehar Fatma (2016). Methyl Jasmonate alleviates cadmium-induced photosynthetic damages through increased S-assimilation and glutathione production in mustard. *Frontiers in Plant Science* 7, 1933. **Impact Factor: 5.753**
2. **Tasir S. Per**, M. Iqbal R Khan, Naser A. Anjum, Asim Masood, Sofi J. Hussain, Nafees A. Khan (2018). Jasmonates in plants under abiotic stresses: Crosstalk with other phytohormones matters. *Environmental and Experimental Botany* 145, 104-120. **Impact Factor: 5.545**
3. **Tasir S. Per**, Asim Masood, Nafees A. Khan (2017). Nitric oxide improves S-assimilation and GSH production to prevent inhibitory effects of cadmium stress on photosynthesis in mustard (*Brassica juncea* L.). *Nitric Oxide* doi: 10.1016/j.niox.2016.12.012. **Impact Factor: 4.427**
4. **Tasir S. Per**, Nafees A. Khan, P.S. Reddy, Asim Masood, M. Hasanuzzaman, M.I.R. Khan and Naser A. Anjum (2017). Approaches in modulating proline metabolism in plants for salt and drought stress tolerance: Phytohormones, mineral nutrients and transgenics. *Plant Physiology and Biochemistry* 115, 126–140. **Impact Factor: 4.27**
5. **Tasir S. Per**, Shumaila Khan, Mohd Asgher, Bilqees Bano and Nafees A. Khan (2016). Photosynthetic and growth responses of two mustard cultivars differing in phytocystatin activity under cadmium stress. *Photosynthetica* 1-13 **Impact Factor: 3.189**
6. Asgher, Mohd, Zebus Sehar, Abdul Rehaman, Shaista Rashid, Sajad Ahmed, **Tasir S. Per**, Mohammed Nasser Alyemeni, and Nafees A. Khan (2022). "Exogenously-applied L-glutamic acid protects photosynthetic functions and enhances arsenic tolerance through increased nitrogen assimilation and antioxidant capacity in rice (*Oryza sativa* L.)." *Environmental Pollution* 301: 119008. **Impact Factor: 8.071**
7. Nafees A. Khan, Mohd Asgher, **Tasir S. Per**, Asim Masood, Mehar Fatma, M. Iqbal R Khan (2016) Ethylene potentiates sulfur-mediated reversal of cadmium inhibited photosynthetic responses in mustard. *Frontiers in Plant Science* 7, 1628. **Impact Factor: 5.753**

8. Mehar Fatma, Asim Masood, **Tasir S. Per** and Nafees A. Khan (2016). Nitric oxide alleviates salt stress inhibited photosynthetic performance by interacting with sulfur assimilation in mustard. *Frontiers in Plant Science* 7, 521 **Impact Factor: 5.753**
9. M.I.R. Khan, Nafees A. Khan, Asim Masood, **Tasir S. Per** and Mohd Asgher (2016). Hydrogen peroxide alleviates nickel-inhibited photosynthetic responses through increase in use-efficiency of nitrogen and sulfur, and glutathione production in mustard. *Frontiers in Plant Science* 7, doi:10.3389/fpls.2016.00044. **Impact Factor: 5.753**
10. M.I.R. Khan, Mehar Fatma, **Tasir S. Per**, Naser A. Anjum and Nafees A. Khan (2015). Salicylic acid-induced abiotic stress tolerance and underlying mechanisms in plants. *Frontiers in Plant Science* 6, 462. **Impact Factor: 5.753**
11. Asim Masood, M.I.R. Khan, Mehar Fatma, Mohd Asgher, **Tasir S Per**, and N. A. Khan (2016). Involvement of ethylene in gibberellic acid-induced sulfur assimilation, photosynthetic responses, and alleviation of cadmium stress in mustard. *Plant Physiology and Biochemistry* 104, 1–10. **Impact Factor: 4.27**
12. Mohd Asgher<sup>#</sup>, **Tasir S Per**<sup>#</sup>, Asim Masood, Mehar Fatma, Luciano Freschi, Francisco J. Corpas and Nafees A. Khan (2016). Nitric oxide signaling and its crosstalk with other plant growth regulators in plant responses to abiotic stress. *Environmental Science and Pollution Research* 24, 2273-2285. **Impact Factor: 4.223**
13. Naser A. Anjum, Harminder P. Singh, M.I.R. Khan, Asim Masood, **Tasir S. Per**, Asha Negi, Daizy R. Batish, Nafees A. Khan, Armando C. Duarte, Eduarda Pereira and Iqbal Ahmad (2014). Too much is bad—an appraisal of phytotoxicity of elevated plant-beneficial heavy metal ions. *Environmental Science and Pollution Research* 1-22 **Impact Factor: 4.223**
14. M.I.R. Khan, Faroza Nazir, Mohd Asgher, **Tasir S. Per** and Nafees A. Khan (2015). Selenium and sulfur influence ethylene formation and alleviate cadmium-induced oxidative stress by improving proline and glutathione production in wheat *Journal of Plant Physiology* 173, 9–18 **Impact Factor: 2.82**
15. Mohd Asgher, M.I.R. Khan, Naser A. Anjum, Dhiraj Viyas, **Tasir S. Per**, Asim Masood and Nafees A. Khan (2018). Ethylene and Polyamines in Counteracting Heavy Metal Phytotoxicity: A Crosstalk Perspective. *Journal of Plant Growth Regulation*, 1–16. **Impact Factor: 3.549**
16. Mohd Asgher, **Tasir S. Per**, Susheel Verma, Shahzad A. Pandith Asim Masood and Nafees A. Khan (2018). Ethylene supplementation increases PSII efficiency and alleviates chromium-inhibited photosynthesis through increased nitrogen and sulfur assimilation in mustard. *Journal of Plant Growth Regulation*, 1–18. **Impact Factor: 3.549**
17. Rehman, Abdul, Awdhesh Kumar Mishra, Asma Ferdose, **Tasir S. Per**, Mohd Hanief, Arif Tasleem Jan, and Mohd Asgher (2021). "Melatonin in Plant Defense against Abiotic Stress." *Forests* 12, no. 10: 1404. **Impact Factor: 2.591**
18. Nousheena Iqbal, Shahid Umar, **Tasir S. Per** and Nafees A Khan (2017). Ethephon increases proline content and antioxidant metabolism under low nitrogen and alleviates decrease in photosynthesis under salinity stress in mustard. *Plant Signaling & Behavior*. **Impact Factor: 2.0**
19. M.I.R. Khan, Nousheena Iqbal, Asim Masood, **Tasir S. Per** and Nafees A. Khan (2013). Salicylic acid alleviates adverse effects of heat stress on photosynthesis through changes in proline production and ethylene formation. *Plant Signaling & Behavior*, 8, e26374. **Impact Factor: 2.0**

## Research Papers in Journals with Impact Factor 1-2

20. Pasala R.K, Khan M.I.R, Minhas P. S, Farooq M.A, Sultana R, **Tasir S. Per**, Deokate P.P, Khan N.A, Rane J. (2016). Can plant bio-regulators minimize crop productivity losses caused by drought, heat and salinity stress? An integrated review. *Journal of Applied Botany and Food Quality* 89, 113–125. **Impact Factor: 1.374**

## Research Papers Published in Journals as Open Access

21. Mehar Fatma, Asim Masood, **Tasir S. Per**, Faisal Rasheed and Nafees A. Khan (2016). Interplay between nitric oxide and sulfur assimilation in salt tolerance in plants. *The Crop Journal* 4, 153-161. **Impact Factor: 4.407**
22. Sugghanda Varshney, M.I.R. Khan, Asim Masood, **Tasir S. Per**, Faisal Rasheed and Nafees A. Khan (2016). Contribution of plant growth regulators in mitigation of herbicidal stress. *Plant Biochemistry and Physiology* 3, 2.
23. Latief, Uzma, Gurleen Kaur Tung, Harjeet Singh, **Tasir S. Per**, and Subheet Kumar Jain (2022). "Bergenia ciliata as a future candidate for liver diseases: a concise review." *The Journal of Basic and Applied Zoology* 83, no. 1: 1-14.

## Other Publications

24. M.I.R. Khan, Mohd Asgher, Mehar Fatma, **Tasir S. Per** and Nafees A. Khan (2015). Drought stress vis a vis plant functions in the era of climate change. *Climate Change and Environmental Sustainability* 3, 13–25.
25. M.A. Rather, D.P. Pandey, Sanjay Kumar, **Tasir S. Per** and Younis Rashid (2018). Phytochemical investigation of *Arnebia benthamii* (Wall. ex g. don) I.M. John St. *International Journal of Innovative Research and Review* 6, 21–26.
26. N.A. Wagay, M.A. Dar, **T.S. Per** and Shah Rafi (2019) Biochemical Evaluation of Chlorophyll Content using Different Solvents in Various Plant Species of Amravati, Maharashtra (India). *Bioscience Biotechnology Research Communication* 12(2): 000-000.

## Book Chapters

1. **Tasir S. Per**, Mehar Fatma, Mohd. Asgher, Sofi Javed and Nafees A Khan (2017). Salicylic acid and nutrients interplay in abiotic stress tolerance.
2. M. Iqbal R. Khan Nafees A. Khan, Mohd. Asgher, Mehar Fatma, Asim Masood, Shabina Syeed **Tasir S. Per** and Wasim Kaiser (2015). Photosynthesis in changing environment: analyzing the role of phytohormones in modulation. *Functional Genomics, Physiological Processes and Environmental Issues*, 129. Nova publishing.
3. Asim Masood, **Tasir S. Per**, Mohd Asgher, Mehar Fatma, M. Iqbal R. Khan, Faisal Rasheed, Sofi J. Hussain and Nafees A. Khan (2016). In *Osmolytes and Plants Acclimation to Changing Environment: Emerging Omics Technologies* (pp. 69-82). Springer India.
4. Mohd. Asgher, **Tasir S. Per**, Shagufta Anjum, M. Iqbal R. Khan, Asim Masood, Susheel Verma and Nafees A. Khan (2017). Contribution of glutathione in heavy metal stress tolerance in plants. In *Reactive Oxygen Species and Antioxidant Systems in Plants: Role and Regulation under Abiotic Stress* (pp. 297-313). Springer, Singapore.

## Papers Presented in Conferences:

### International Conferences

1. **Tasir S. Per** and Nafees A. Khan. Nitric Oxide Improves Photosynthetic Efficiency under Cadmium stress Through Nitrogen and Sulphur Assimilation in Mustard. 3<sup>rd</sup> International Conference on Global Initiatives in Agricultural and Applied Sciences for Eco-Friendly Environment (GIASE-2019) During 16-18 June, 2019 at Conference Hall, Tribhuvan University, Kathmandu Nepal.
2. **Tasir S. Per**, Asim Masood and Nafees A. Khan. Nitric Oxide depletes cadmium-induced toxic effects on photosynthesis by modulating S-assimilation and glutathione production in mustard. 6<sup>th</sup> Plant Nitric Oxide International Meeting Granada, SPAIN September 14-16, 2016
3. **Tasir S. Per** and Nafees A. Khan. Methyl jasmonate alleviates cadmium-induced toxicity on photosynthesis in *Brassica juncea* by modulating reduced glutathione production. International conference on “Emerging Trends in Biomedical Sciences” organized by Department of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University, Aligarh-202002, UP, India. March 6-8, 2016.
4. **Tasir S. Per** and Nafees A. Khan. Exclusive and mutual effects of methyl Jasmonate with sulfur in modulation of photosynthesis and growth of *Brassica juncea* under cadmium Stress. International Conference on Environment and Ecology March 2-4, 2015, Kolkata.
5. **Tasir S. Per**, Nafees A. Khan, Bilquees Bano and Shumaila Khan. Variation in phytoalexin activity in mustard seeds is correlative with efficient antioxidant metabolism and protection of cadmium-inhibited photosynthesis. International Symposium on Plant Signaling and Behavior at Department of Botany, University of Delhi, India (Mar 7-10, 2014).

#### **National Conference**

1. **Tasir S. Per** and Asim Masood. Methyl jasmonate alleviates cadmium-induced photosynthetic damage through increased S-assimilation and glutathione production in mustard. National Conference on Trends in Biochemical and Biomedical Sciences March 2-3, 2019. Department of Biochemistry, AMU, Aligarh.
2. **Tasir S. Per** and Nafees A. Khan. Effect of exogenous methyl jasmonate and sulphur in reducing nickel-induced toxic effects on photosynthesis and growth in *Brassica juncea*. UGC & DBT Sponsored National Symposium cum Bioinformatics workshop on Macromolecular interactions in Biology organised by Interdisciplinary Biotechnology Unit Aligarh Muslim University, Aligarh, March 25-26-2015
3. **Tasir S. Per**, Nafees A Khan, Bilquees Bano and Shumaila Khan. Protection of nickel-inhibited photosynthesis and growth in three different genotypes of mustard differing in seed phytoalexin activity. UGC Sponsored National seminar on Perspectives in Plant and Environmental Sciences at Department of Botanical and Environmental Sciences Guru Nanak Dev University Amritsar, India (Mar 11-12, 2014).

#### **Conferences/Workshops Attended:**

##### **International**

6. 3<sup>rd</sup> International Conference on Global Initiatives in Agricultural and Applied Sciences for Eco-Friendly Environment (GIASE-2019) During 16-18 June, 2019 at Conference Hall, Tribhuvan University, Kathmandu Nepal.
7. 6<sup>th</sup> Plant Nitric Oxide International Meeting Granada, SPAIN September 14-16<sup>th</sup>, 2016.
8. International conference on “Emerging Trends in Biomedical Sciences” organized by Department of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University, Aligarh-202002, UP, India. March 6-8, 2016.

9. International Conference on Environment and Ecology March 2-4, 2015, Kolkata.
10. International Symposium on Plant Signaling and Behavior 2014, March 7-10, 2014, Delhi.

### **National**

11. "Taxonomy of Vascular Plants: Principles and Practices". Organized by: CAS, Department of Botany, University of Calcutta. March 5 to 12, 2018.
12. National workshop on "Recent Trends in Biochemistry and Biotechnology (NRTBB 2016)". Organized by the Department of Biochemistry, Deshbandhu College, University of Delhi on 21<sup>st</sup> and 22<sup>nd</sup> April 2016.
13. Workshop on Optical Microscopes. Department of Geology, Aligarh Muslim University, Aligarh-202002. 9<sup>th</sup> March 2016.
14. Wellcome Trust/DBT India Alliance Science Communication workshop at AMU, April 13, 2015.
15. UGC & DBT Sponsored National Symposium cum Bioinformatics workshop on Macromolecular interactions in Biology organised by Interdisciplinary Biotechnology Unit Aligarh Muslim University, Aligarh, March 25-26-2015.
16. UGC Sponsored National Seminar on Perspectives in Plant and Environmental Sciences. Department of Botany GNDU, Amritsar (March 11-12, 2014)
17. National Symposium cum Bioinformatics Workshop. Interdisciplinary Biotechnology Unit, A.M.U., Aligarh. January 15-17, 2014.
18. National Seminar on Trends and Advances in Plant Sciences. Department of Botany, Aligarh Muslim University, Aligarh. September 21-22, 2013.
19. Short Term Course on Plant Tissue Culture and Molecular Biology. 28 Jan.-3 Feb. 2013 Organized by UGC Academic Staff College, AMU Aligarh.
20. National Seminar on Recent Advances in Plant Biotechnology: Prospects and Potentials 19-20 Feb. 2011 Organized by the Department of Botany, AMU Aligarh.

### **Refresher Course**

1. IASc, INSA & NASI Sponsored Science Academies' Refresher Course on "Plant Taxonomy, Biodiversity and Ethnobotany" on 12<sup>th</sup> to 25<sup>th</sup> November 2018, organized by PG and Research Department of Botany V.O. Chidambaram College Thoothukudi, Tamil Nadu.

### **Life Membership**

1. Agricultural Technology Development Society (ATDS) Registration No. 1024/61550-M/2015-16, under the society's registration Act No. 21, 1860 Ghaziabad (Uttar Pradesh) India.
2. Society of Life-Sciences

### **Awards**

1. Honorary Fellowship (F.S.L.Sc.) of the Society of Life Sciences for Outstanding contribution in the field of Life Sciences.
2. Young Scientist Award-2019 for outstanding contribution in the field of Plant Physiology (Botany) on the occasion of 3<sup>rd</sup> International Conference on "Global Initiatives in Agricultural and Applied Sciences for Eco-Friendly Environment (GIASE-2019) During 16-18 June, 2019 at

Conference Hall, Tribhuvan University, Kathmandu Nepal. C. No. ATDS/GIASE 386 2019

3. II Position in oral presentation on the occasion of 3<sup>rd</sup> International Conference on “Global Initiatives in Agricultural and Applied Sciences for Eco-Friendly Environment (GIASE-2019) during 16-18 June, 2019 at Conference Hall, Tribhuvan University, Kathmandu Nepal.

## ACCOLADES

### Proficiency with Statistical Software

R ver. 2.14.1, SPSS 17.0, 2.14.1, Sigma Plot, Origin Pro 9, MS Excel

Basic Internet Application: Email programs, File Transfer Protocol (FTP), Downloading, Uploading etc.

### Skills in Scientific Presentations

- ✚ Scientific Presentations using Graphics, PowerPoint and Animated videos
- ✚ Can handle various scientific equipments viz. Photosynthesis System (IRGA), SPAD chlorophyll meter, Junior PAM, Electrophoresis System, Gel Documentation System, Water and Osmotic Potential Units, Leaf Area Meter, Gas Chromatograph, Ultracentrifuge, UV-VIS Spectrophotometer with ease.
- ✚ Standardized the protocol for extraction and purification of Rubisco Protein from the leaf tissue and its separation using Gel Electrophoresis during Ph.D.
- ✚ Scientific protocols for extraction and estimation of enzymes of biological importance and other related techniques and protocols.

## Strengths

- ✚ Enthusiastic and hardworking
- ✚ Possess positive attitude
- ✚ Responsible towards work
- ✚ Self-motivated and directed

## Personal Profile:

Name: Dr. Tasir Sharief Per  
Father's Name: Mr. Mohammad Sharief Per  
Date of Birth: 05-06-1988  
Permanent Address: Furqan Abad Ghat, Doda (J&K).  
Gender: Male  
Nationality: Indian  
Marital Status: Single  
Blood group: B<sup>+ve</sup>  
Linguistic ability: English and Urdu

*I hereby declare that the information and facts given above are correct to best of my knowledge and belief.*

**Date:** 28/11/2023  
**Place:** Kilhotran

**Dr. Tasir Sharief Per**