

## Curriculum Vitae

**Dr. MOHD ASGHER**

**Current Position: Assistant Professor/ Coordinator, Department of Botany**

Department of Botany, School Of Biosciences and Biotechnology

Baba Ghulam Shah Badshah University, Rajouri (J & K)

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Mobile No. +91-9622184466; +91-7006769094

**Permanent Address: Rajouri-185234 Jammu and Kashmir**

**Ph.D Topic and Place of work:** 'Involvement of ethylene in sulfur-mediated changes in growth and metabolism of mustard (*Brassica juncea*) under cadmium stress' at department of Botany Aligarh Muslim University, Aligarh



### **Awards, Achievements and Collaborations**

1	<b>National Post Doctoral Fellowship in Plant Sciences</b>	Funding Agency DST/SERB at BGSB University Rajouri (J & K) <b>(Rs.19.2 Lakhs)</b>
2	<b>UGC start Up Research Grant</b>	Funding Agency UGC New Delhi, GOI <b>(Rs.10 Lakhs)</b>
3	<b>SERB-Start UP Research Grant</b>	Funding Agency DST SERB, New Delhi GOI <b>(Rs. 33 Lakhs)</b>
4.	<b>JK STIC, DST</b>	Funding Agency JK DST, J&K <b>(Rs. 8.75 lakhs)</b>
5	<b>Best poster award</b>	National seminar at Department of Botany, AMU Aligarh Sept 21-22, 2013
6	<b>Best poster award</b>	Center University of Jammu, Jammu Dec 7-8 2018
7	<b>INSA Medal 2021</b>	2021 by INSA New Delhi <b>(Rs.1.0 Lakh)</b>

### **RESEARCH PROJECTS SANCTIONED**

- 1. Principal Investigator in a Research Project on “Proteomic investigation of ethylene and polyamine mediated reversal of chromium induced photosynthetic inhibition in *Brassica juncea*” of Rs 19.2 lakh for 2 years funded by Science and Engineering Research Board, New Delhi, GOI. SERB (PDF/2016/000591)**
- 2. Principal Investigator in a Research Project on ‘Nitric oxide and polyamine mediated reversal of low temperature-induced photosynthetic inhibition in *Lycopersicon esculentum***  
’ UGC start Up Research Grant New Delhi, GOI for Two year (85<sup>th</sup> meeting Feb 2018) 10 Lakhs 30-441/2018 (BSR)
- 3. Principal Investigator in a Research Project on “Developing methods for tolerance against drought and heat stress in *Zea mays* and *Phaseolus vulgaris* grown in Pir-Panjal region of Jammu and Kashmir**  
”of Rs 33 lakh for 2 years funded by Science and Engineering Research Board, New Delhi, GOI (SRG/2019/001766)
- 4. Co-Investigator in a Research Project on “ Assessing the floristic diversity and ecosystem level carbon sequestration potential of Pir-Panjal Region of Rajouri J&K’ of Rs 8.75 lakhs for 2 years funded by JK Science technology and Innovation Council, Department of Science and Technology. Govt of J&K (JKSTIC order no. 84 of 2021)**

### **AT GLANCE**

<b>Total Publications</b>	<b>37</b>
<b>Papers in Journals of High Impact Factor:</b>	<b>24</b>
<b>Project completed (PI) (DST/SERB-sponsored):</b>	<b>01</b>
<b>Project ongoing (PI) UGC-sponsored):</b>	<b>01</b>
<b>Project ongoing (PI) (DST/SERB-sponsored):</b>	<b>01</b>
<b>Project Completed (as JRF) (UGC-sponsored):</b>	<b>01</b>
<b>Project Completed (as JRF) (DBT-sponsored):</b>	<b>01</b>
<b>Book Chapters Published:</b>	<b>06</b>
<b>Papers Presented:</b>	<b>04</b>
<b>Conferences Attended:</b>	<b>07</b>
<b>Total Impact Points:</b>	<b>126.68</b>

## Curriculum Vitae

### Citations to My Articles

<u>Citation indices</u>	All	Since 2017
<u>Citations</u>	2518	2017
<u>H-index</u>	22	21

### Research Experience and Teaching Experience

1	Project Fellow (After Ph.D Award)	Department of Botany, AMU, Aligarh	12-4-2015 to 9-02-2016 (10 months)
2	Assistant Professor Botany (Contractual)	School Of Biosciences and Biotechnology BGSBU (J& K)	10-02-2016 to 16-06-2016 (5 months)
3	National Post Doctoral Fellow (DST/SERB)	School Of Biosciences and Biotechnology BGSBU (J& K)	25 July 2016 to 11 September 2017 (Also involved in teaching)
4	Assistant Professor	Department of Botany, BGSB University, Rajouri	12 September 2017 onwards

### Academic Credentials:

Class	Board/university	Subjects	Division	Percentage	Year
Ph. D	A.M.U	Botany	-	Awarded (07-06-2011 to 11/04/2015)	2015
M. Sc	A.M.U	Botany	I	70.95	2010
B. Sc	J.U Jammu	Botany, Zoology, Chemistry	I	63.75	2008
10+2	JK Board	PCB	I	67.00	2005
10 <sup>th</sup>	JK Board	Science	I	80.00	2003

### Summary of Publications

#### A: Research Papers

S.NO	Journals	Year	No. of Publications	Impact Factor
1	Plants	2022	1	4.65
2	Antioxidants	2022	1	7.67
3	Forests	2021	1	3.28
4	Physiologia Plantarum	2021	1	5.08
5	Journal of Hazardous Materials	2021	1	14.22
6	Environmental Pollution	2022	1	9.98
7	Plant Physiology	2015	1	8.0

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8	Environmental and Experimental Botany	2014	1	6.02
9	Frontiers in Plant Science	2016	1	6.62
10	Frontiers in Plant Science	2016	1	6.62
11	Ecotoxicology and Environmental Safety	2014	1	7.12
12	Journal of Plant Physiology	2015	1	3.68
13	Protoplasma	2015	1	3.18
14	Environmental Science and Pollution Research	2017	1	5.19
15	Plant Physiology and Biochemistry	2016	1	5.43
16	Plant Physiology and Biochemistry	2014	1	5.43
17	Photosynthetica	2016	1	2.48
18	Plant Signaling & Behavior	2013	1	2.23
19	Journal of Plant Growth Regulation	2018	1	4.64
20	Journal of Plant Growth Regulation	2018	1	4.64
21	Physiologia Plantarum	2019	1	5.08
22	Plants	2020	1	4.65
23	Frontiers in Plant Science	2021	1	6.62
24	Journal of Plant Biochemistry & Physiology	2014	1	4.25
	Total Impact Points		<b>24</b>	<b>126.68</b>

### B: Research Papers

S.NO	Journal	Year	No. of Publication	ISSN No.
1	Climate Change and Environmental Sustainability	2013, 2015	2	2320-642X
2	Journal of Plant Biochemistry & Physiology and International Journal of Advanced Research	2014, 2016	1	ISSN:23 29-9029
3	Journal of Functional and Experimental Botany	2013	2	2231-1750
	Total		<b>5</b>	

### C: Book Chapters

S.NO	Publisher	Year	No. of Publication
1	Springer-Verlag, New York, Springer New Delhi Heidelberg New York Dordrecht London	2016, 2016* 2017,2019 2012,2022	6

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2	CAB International, UK	2015	1
3	Nova Science Publishers, USA	2015	1
4	Wiley	2020	1
	Total		<b>9</b>

**Research Area:** Plant Stress Physiology (Hormonal and nutrient regulation under abiotic stress)

**Research Interest:** The focus of my research is mainly on understanding the metabolism of crop and medicinal plants under abiotic stress and significant role of nutrients and phytohormones in regulation of plant photosynthesis, S-metabolism, N-metabolism, antioxidant system and growth. The protection of photosynthetic apparatus against abiotic stress by manipulating phytohormones and nutrients in plant through modulating the components of antioxidant defense has been observed. Thus, phytohormones and mineral nutrients plays an important role in the alleviation of stress resulting in improved plant growth and development and in integrating various stress signals and controlling downstream stress responses and interacts in co-ordination with each other for defense signal networking to fine tune defense. Further studied will be focused on proteomic and genomic traits, and this biotechnological approach being used to understand the biological function of proteins and genes expressed in response to abiotic stress.

### List of Publications

#### Research papers in journals with Impact Factor

1. Fatma M , **Asgher M**, Iqbal N, Rasheed F , Sehar Z , Sofo A , Khan NA (2022) Ethylene signaling under stressful environments: Collaborative knowledge with new perspectives. **Plants (IF 4.65)**
2. Ahmed S, **Asgher M**, Amit Kumar A, Sumit Gandhi S (2022) Exogenously applied Rohitukine inhibits photosynthetic processes, growth and induces antioxidant defense system in *Arabidopsis thaliana*. **Antioxidants (IF:7.67)**
3. **Asgher, M.**, Sehar, Z., Rehaman, A., Rashid, S., Ahmed, S., Per, T. S., & Khan, N. A. (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 (IF: 9.98)** 301, 119008.
4. Rehaman, A.; Mishra, A.K.; Ferdose, A.; Per, T.S.; Hanief, M.; Jan, A.T.; **Asgher, M.** Melatonin in Plant Defense against Abiotic Stress. *Forests* **2021**, *12*, 1404. <https://doi.org/10.3390/f12101404> **(IF:3.28)** (\*Corresponding author).
5. Aslam S, Gul N, Mir MA, **Asgher M**, Al-Sulami N, Abulfaraj AA and Qari S (2021) Role of Jasmonates, Calcium, and Glutathione in Plants to Combat Abiotic Stresses Through Precise Signaling Cascade. *Front. Plant Sci.* 12:668029. doi: 10.3389/fpls.2021.668029 **Impact Factor 6.62**
6. Sajad Ahmed, **Mohd Asgher**, , Sumit G. Gandhi Plant aquaporins: A frontward to make crop plants drought resistant. *Physiologia Plantarum* 2021 172:1089-1105 **(IF: 5.08)** (\*Corresponding author).
7. **Mohd Asgher** , Sajad Ahmed , Zebus Sehar , Harsha Gautam , Sumit G. Gandhi , Nafees A. Khan (2021) Hydrogen peroxide modulates activity and expression of antioxidant enzymes and protects photosynthetic activity from arsenic damage in rice (*Oryza sativa* L.) **Journal of Hazardous Materials (IF: 14.22)** 12365
8. **Mohd Asgher, Susheel Verma** Nafees A. Khan , Dhiraj Vyas , Priyanka Kumari , Shaista Rashid, Sajid Khan , Shaista Qadir , Mohammad Ajmal Ali and Parvaiz Ahmad. Physiological, Biochemical and Reproductive Studies on *Valeriana wallichii*, a Critically Endangered

- Medicinal Plant of the Himalayan Region Grown under In-Situ and Ex-Situ Conditions. **Plants (IF 4.65)** 2020, 9, 131; doi:10.3390/plants9020131 (\*Corresponding author)
9. Anket Sharma , Cristiano Soares, Bruno Sousa, Maria Martins, Vinod Kumar, Babar Shahzad, Gagan P.S. Sidhu, Aditi S. Bali, **Mohd Asgher**, Renu Bhardwaj, Ashwani K. Thukral, Fernanda Fidalgo, and Bingsong Zheng. Nitric oxide-mediated regulation of oxidative stress in plants under metal stress: a review on molecular and biochemical aspects **Physiologia Plantarum** 2020 168:318-344 (IF: 5.08 ) doi:10.1111/ppl.13004
  10. **Mohd Asgher**, Tasir S. Per , Susheel Verma, Shahzad A. Pandith, Asim Masood, Nafees A. Khan (2018) Ethylene Supplements Increases PSII Efficiency and Alleviates Chromium Inhibited Photosynthesis Through Increased Nitrogen and Sulfur Assimilation in Mustard. **J of Plant Growth Regulation** 37:1300-1317 (IF: 4.64) (\*Corresponding author).
  11. **Mohd Asgher** , Khan MIR. Anjum NA, Verma S., Vyas D. Per TS. Masood A. Khan NA (2018) Ethylene and Polyamines in Counteracting Heavy Metal Phytotoxicity: A Crosstalk Perspective **J of Plant Growth Regulation** 37: 1050-1065 (IF: 4.64)  
<https://doi.org/10.1007/s00344-018-9823-x>
  12. Nafees A. Khan, **Mohd Asgher\***, Tasir S. Per, Asim Masood and Mehar Fatma (2016) Ethylene potentiates sulfur-mediated reversal of cadmium inhibited photosynthetic responses in mustard. **Frontiers in Plant Science. 7:1628. doi: 10.3389/fpls.2016.01628 IF: 6.62. (\*Corresponding author)**
  13. **Mohd Asgher**, Nafees A. Khan, M.Iqbal R. Khan, Mehar Fatma, Asim Masood (2014) Ethylene production is associated with alleviation of cadmium-induced oxidative stress by sulfur in mustard types differing in ethylene sensitivity. **Ecotoxicology and Environmental Safety** 106:54–61. **IF: 7.12**
  14. **Mohd Asgher**, M. Iqbal R.Khan, Naser A. Anjum and Nafees A. Khan (2015). Minimizing toxicity of cadmium in plants – role of plant growth regulators. **Protoplasma** 252:399–413. **IF: 3.18**
  15. **Mohd Asgher**, Tasir Sharief Per, 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 **IF; 5.19**
  16. Tasir.S. Per, Shumaila Khan , **Mohd Asgher**, Bilquees. Bano and Nafees A. Khan (2016) Photosynthetic and growth responses of two mustard cultivars differing in phytoalexin activity under cadmium stress. **Photosynthetica** **IF: 3.35.**
  17. M. Iqbal 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.** doi: 10.3389/fpls.2016.00044 **IF: 6.62.**
  18. Asim Masood, M. Iqbal Khan, Mehar Fatma, **Mohd Asgher**, Tasir S. Per and Nafees 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 **IF: 5.43**
  19. Nguyen Phuong Thao, M. Iqbal R. Khan, Nguyen Binh Anh Thu, Xuan Lan Thi Hoang, **Mohd Asgher**, Nafees A. Khan, and Lam-Son Phan Tran (2015) Role of ethylene and its crosstalk with other signaling molecules in plant responses to heavy metal stress. **Plant Physiology** 169:73-84 **IF 8.0**

20. M. Iqbal R. Khan, Faroza Nazir, **Mohd. Asgher**, Tasir S Per, Nafees A Khan (2015) Selenium and sulfur influence ethylene formation and alleviate cadmium-induced oxidative stress by improving proline and glutathione production in wheat (*Triticum aestivum* L.). *Journal of Plant Physiology* 173:9–18 **IF: 3.35**
21. Mehar Fatma, **Mohd Asgher**, Asim Masood and Nafees A. Khan (2014) Excess sulfur supplementation improves photosynthesis and growth in mustard under salt stress through increased production of glutathione. *Environmental and Experimental Botany* 107:55–63. **IF: 6.02**
22. M. Iqbal R. Khan, **Mohd. Asgher** and Nafees A. Khan (2014) Alleviation of salt-induced photosynthesis and growth inhibition by salicylic acid involves glycinebetaine and ethylene in mungbean (*Vigna radiata* L.) *Plant Physiology and Biochemistry* 80:67–74. **IF: 5.54**
23. Noushina Iqbal, Asim Masood, M. Iqbal R. Khan, **Mohd. Asgher**, Mehar Fatma and Nafees A. Khan (2013) Cross-talk between sulfur assimilation and ethylene signaling in plants. *Plant Signaling & Behavior* 8:1 **IF: 2.23.**
24. Nafees A. Khan, M. Iqbal R. Khan, **Mohd Asgher**, Mehar Fatma, Asim Masood and Shabina Syeed (2014) Salinity tolerance in plants: Revisiting the role of sulfur metabolites. *Journal of Plant Biochemistry & Physiology* 2: 120. **IF: 4.25** .doi:10.4172/2329-9029.1000120.

### Research Papers Published in Reputed Journals

1. **Mohd Asgher**, M. Iqbal R. Khan, Noushina Iqbal, Asim Masood and Nafees A. Khan (2013) Cadmium tolerance in mustard cultivars: Dependence on proline accumulation and nitrogen assimilation. *Journal of Functional and Experimental Botany* 3:30-42
2. M. Iqbal 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
3. Manik Sharma, Javaid Iqbal, Som Kailash, **Mohd Asgher**, Mohd Younis, Jagrati Tripathi, Fakhar Shezad and Meraj Ud Din Hura (2016) Multi-therapeutic activity of *Berberis lycium* royle: a review *International Journal of Advance Research* 4:2419-2431
4. M. Iqbal R. Khan, **Mohd. Asgher** and Nafees A. Khan (2013) Rising temperature in the changing environment: A serious threat to plants. *Climate Change and Environmental Sustainability* 1: 25-36.
5. Asim Masood, Noushina Iqbal, **Mohd. Asgher**, M. Iqbal R. Khan, Mehar Fatma, Nafees A Khan (2013) Variation in carbohydrate accumulation in two cultivars of mustard and its association with salt tolerance. *Journal of Functional and Experimental Botany* 3:94-102.

### Book Chapters

6. Kouser S, Rehaman A, Ahmed A, Rashid S, Pant S, **Mohd Asgher** (2021) **Crosstalk of Potassium and Phytohormones Under Abiotic Stress**" in *Role of Potassium in Abiotic Stress* Edited by Noushina Iqbal and Shahid Umar Springer Press
7. **Mohd Asgher**, Tasir S. Per, Susheel Verma<sup>1</sup>, M. Iqbal R. Khan, Asim Masood and Nafees A. Khan (2017) Contribution of Glutathione in Heavy Metal Stress Tolerance in Plants. In: Dr. M. Iqbal R. Khan, Dr. Nafees Khan, and Dr. Abdelbagi M. Ismail, *Reactive Oxygen Species and Antioxidant System*. In *Plants: Role and Regulation under Abiotic Stress*. Springer Nature Singapore Pte Ltd.
8. **Mohd Asgher**, M. Iqbal R. Khan, Mehar Fatma and Nafees A. Khan (2015) Potentiality of ethylene in sulphur-mediated counteracting adverse effects of cadmium in plants. In: Usha Chakraborty, Bishwanath Chakraborty. *Abiotic Stresses in Crop Plants*. CAB International, UK136-163.
9. Asim Masood, Tasir S. Per, **Mohd. Asgher**, Mehar Fatma, M. Iqbal R. Khan, Faisal Rasheed, Sofi J Husain; Nafees A. Khan (2016) Glycinebetaine: Role in shifting plants towards adaptation under extreme environment In: Noushina Iqbal, Rahat Nazar and Nafees A Khan. *Osmolytes and Plants Acclimation to Changing Environment: Emerging Omics Technologies*. Springer New Delhi Heidelberg New York Dordrecht London. 69-82.

## Curriculum Vitae

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10. Mehar Fatma, Asim Masood, M. Iqbal R. Khan, **Mohd. Asgher**, Tasir S. Per and Nafees A. Khan (2017) . Salicylic acid and Nutrients Interplay in Abiotic Stress Tolerance. In Salicylic Acid: A Multifaceted Hormone. Rahat Nazar, Noushina Iqbal and Nafees A. Khan Springer:
11. M. Iqbal R. Khan, **Mohd. Asgher**, Noushina Iqbal and Nafees A. Khan (2012). Potentiality of sulfur-containing compounds in salt stress tolerance. In: Ahmad P, Azooz MM, Prasad MNV. Ecophysiology and responses of plants under salt stress. Springer: New York. 443-472.
12. M. Iqbal R. Khan Nafees A. Khan, **Mohd. Asgher**, Mehar Fatma, Asim Masood, Shabina Syeed Tasir S Per, Wasim Kaiser (2015) Photosynthesis in changing environment: analyzing the role of phytohormones in modulation. In: Nafees A. Khan. Photosynthesis Functional Genomics, Physiological Processes and Environmental Issues Nova Science Publishers, Inc 129-167.
13. Abbu Zaid, **Mohd Asgher**, Ishfaq Ahmad Wani; Shabir H. Wani, (2019) Role of Triacontanol in overcoming Environmental Stress In Protective chemical agents in the amelioration of plant abiotic stress: biochemical and molecular perspectives” to be published by Dr. Aryadeep Roychoudhury in Wiley

### Abstracts Published/Conferences Attended

- **Mohd. Asgher**, Rahat Nazar, Noushina Iqbal, M. Iqbal R. Khan and Nafees A. Khan. Variation in photosynthesis and growth of mustard cultivars: Role of ethylene sensitivity. Presented Poster on National Seminar of Plant Physiology “Physiological and Molecular Approaches for development of Climate Resilient Crops” at **Acharya N.G Ranga Agricultural University Hyderabad** 12-14, 2012.
- **Mohd. Asgher**, W. Kaiser and Nafees. A. Khan. Sulfur protects photosynthetic capacity inhibition in mustard induced by cadmium through increase in antioxidant metabolism. Presented Poster on National Seminar “Trends and Advances in Plant Sciences” at **Department of Botany, Aligarh Muslim University, Aligarh** Sept 21-22, 2013.
- Mehar Fatma, **Mohd. Asgher** and Nafees A. Khan. Ethylene promotes excess-S utilization to alleviate salt stress in mustard. Presented Poster at National Seminar “Trends and Advances in Plant Sciences” at **Department of Botany, Aligarh Muslim University, Aligarh** Sept 21-22, 2013.
- **34<sup>th</sup> All India Botanical Conference** at Department of Botany, Lucknow University, Lucknow, India (Oct10-12, 2011).
- **Mohd. Asgher** and Nafees A. Khan Ethylene production is associated with alleviation of cadmium-induced oxidative stress by sulfur in mustard types differing in ethylene sensitivity. **Page 95** International Conference on “**Emerging Trends in Biomedical Sciences**” (ETBS-2016) held on March 6-8, 2016
- **Mohd asgher** , Nafees A Khan and Susheel Verma. Cadmium tolerance in mustard cultivars: dependence on proline accumulation and Nitrogen assimilation Poster presentation **At Jamia Millia Islamia in the National seminar on recent advances in environmental toxicology Feb 13-14 2017**
- **Mohd Asgher** Nafees A. Khan, Susheel Verma. Ethylene potentiates sulfur-mediated reversal of cadmium inhibited photosynthetic responses in mustard. **12<sup>th</sup> JK science congress** Jammu university 71 Page **March 2-4 2017**
- **Mohd Asgher**, Susheel Verma, Nafees A. Khan (2018) Ethylene Supplements Increases PSII Efficiency and Alleviates Chromium Inhibited Photosynthesis Through Increased Nitrogen and Sulfur Assimilation in Mustard. **RDPSB Central University of Jammu Dec 7-8 2018**

### Courses Attended

#### Faculty Induction Programme/Orientation Course

Participated in the On-Line Faculty Induction Programme from 02 December 2020 to 06 January 2021 organized

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by UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh and obtained Grade- 'A'.

### Webinar Attended

- Attended the International Webinar on “Advances in Resilience of Sustainable Crop Production”, held on December 9, 2020, organized by the Department of Botany, A.M.U., Aligarh.
- This certificate is presented to MOHD ASGHER for attending the Webinar on Plant microRNA Research held on 27th October 2020. Department of Botany, Aligarh Muslim University, Aligarh (India)

### Faculty Development Programmes

- Participated in a two- week Online Faculty Development Programme on “ICT Tools for Teaching, Learning Process and Institute” jointly organized by Electronics and ICT Academies held from 10th - 21st August, 2020 by NIT Patna, MNIT Jaipur, PDPM IITDM Jabalpur, IIT Guwahati and IIT Roorkee
- Attended One week FDP on “Tools and techniques for writing quality Research papers and publishing in high-impact international journals” organized by IQAC Shobit Institute of Engineering and Technology Meerut held during September 22-27 2020.
- Successfully completed a 2-Week Faculty Development Programme on "RESEARCH METHODOLOGY" from October 01- October 15, 2020 and obtained a grade A
- MHRD sponsored TEQIP assisted course on “Structure and Dynamics in Biology, Chemistry and materials Science” from 16<sup>th</sup> to 20<sup>th</sup> November 2020 organized by the Department of Chemistry, IIT Roorkee.
- Attended UGC sponsored online refresher Course In Teacher Education From 21 August 2021 to 04 September 2021 organized by UGC HRDC, AMU, Aligarh and obtained Grade A

### Reviewer of Prestigious Scientific Journal

Environmental Pollution  
Ecotoxicology and Environmental Safety  
Frontiers in Plant Science  
Environmental and Experimental Botany  
Plant Growth Regulation  
Physiologia Plantarum  
Journal of Plant Growth Regulation  
Agricultural Water Management  
Plant Biology  
Peer J  
3 Biotech  
Biomolecules  
Horticulturae  
International Journal of Molecular Science  
Molecules  
Plant Stress  
Stresses

### Administrative Responsibilities

#### Coordinator Botany

Member, Departmental Research Committee  
Member, M.Phil Committee  
Member, Departmental Purchase Committee

### MEMBER OF PROFESSIONAL SOCIETIES

- Indian Botanical Society



## Curriculum Vitae

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- Indian Science Congress
- National Environmental Science Academy
- Indian Society for Plant Physiology

### M.Sc. Dissertations Supervised at BGSBU 18

#### CAPABILITIES

- Patient listener, Quick Learner.
- Optimist, Honest, commitment of work
- Better understanding of basic scientific principles.

#### PROFICIENCY IN COMPUTING TOOLS

- Application software's: MS-Office (Powerpoint, MS Word, MS EXCEL)
- Basic Internet Application: Email programs, File Transfer Protocol (FTP), Downloading, Uploading Chatting etc.

#### Skills

Can handle various scientific equipments viz. Photosynthesis System, 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. • Has a good understanding of various scientific protocols for extraction and estimation of enzymes of biological importance and other related techniques and protocols. Having good knowledge in preparing scientific research proposal.

#### Course taught at M.Sc level

Plant Physiology and Biochemistry

Bacteria and Viruses (Sharing)

Cell Biology (Sharing)

Plant Resources and Utilization (Sharing)

Mysteries of green plants (Sharing)

Anatomy and Developmental Biology of Angiosperms (Sharing)

#### PERSONAL PROFILE

Name : Mohd Asgher  
Father's Name : Mohd Aslam  
DOB : 10/4/1987  
Permanent Address : Rajouri (Jammu & Kashmir).  
Gender : Male  
Nationality : Indian  
Marital Status : Single  
Blood group : O<sup>+ve</sup>  
Linguistic ability : English, Urdu and Punjabi

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

**Date:** 23/8/2022

**Place:** Rajouri

**Dr. MOHD ASGHER**  
Ph.D (Botany)