

BARKET ALI (Ph.D.)

Vision and mission statement

Plants are indispensable for the sustenance of life. Therefore, understanding plants and their role in the changing environment is an immediate need of the hour. Accordingly, I strive continuously to strengthen the plant-human relationship, disseminate awareness about the environment and inculcate a scientific temper among the students, besides motivating them to become responsible and morally strong human beings.

Organization: Department of Higher Education, Government of Jammu and Kashmir

Place of Posting: Government Degree College Kilhotran, Kilhotran-182203, District Doda, Jammu and Kashmir

Present Position: Associate Professor of Botany

Academic Qualifications

Ph.D. in Botany, (2007) Aligarh Muslim University, Aligarh. Metabolic responses to 4-chloroindole acetic acid in *Vigna radiata* L. Wilczek

M.Phil. in Botany, (2004) Aligarh Muslim University, Aligarh. Effect of brassinosteroid/s on the salinity induced changes in some legume.

M.Sc. in Botany, (2002) Aligarh Muslim University, Aligarh.

B. Sc. (1999). Government Degree College Bhadarwah, University of Jammu, J & K.

Higher Secondary (1996). J & K Board of School Education. Government Higher Secondary School, Kilhotran, Doda, J & K.

Fellowship

(a) **Project Fellow** (03-10-2003 to 15-01-2005) in UGC Research Project “Metabolic responses to chloroindole acetic acid in *Vigna radiata* (L.) Wilczek

(b) **Project Associate** (16-02-2005 to 30-06-2006) in UGC Research Project “Metabolic responses to chloroindole acetic acid in *Vigna radiata* (L.) Wilczek

Award: Young Scientist, Department of Science and Technology, Govt. of India, New Delhi (2007), under Fast Track young Scientist Scheme.

Teaching Experience: 15+ years

Research Experience: 19 years

Specialization/Research area: Plant Physiology and Biochemistry

Research Thrust Area: Plant hormones, plant metabolism, stress physiology, environmental pollution

Book Published: Nickel in Relation to Plants, Narosa Publishing House Pvt. Ltd, New Delhi, India

Number of Research papers/articles published..... 37

Number of Chapters contributed in edited books 10

Number of citations of articles/chapters3794 (Google scholar, Nov 2022)

Number of Conferences/Seminars/Courses/workshops attended.... 47

h-index **25** (Google scholar, Nov. 2022)

Skills: Using modern ICT teaching tools. Experienced in the handling of various instruments such as spectrophotometer, Infra Red gas analyzer (photosynthesis measurement), SPAD chlorophyll meter and other related instruments. Besides instruments, I can use various IT packages such as Zotero, LaTeX, Microsoft Office Word, Power Point, Excel, etc.

LIST OF PAPERS PUBLISHED

PAPERS WITH IMPACT FACTOR 5 - 9.988 (06 NUMBERS)

1. **Barket Ali**, Hayat, S., Fariduddin, Q and Ahmad, A. 2008. 24-Epibrassinolide detoxifies the stress generated by salinity and nickel in *Brassica juncea*. ***Chemosphere*** 72 (9), 1387-1392. (Elsevier). doi:10.1016/j.chemosphere.2008.04.012
2. Hasan, S.A., Hayat, S., **Barket Ali**, Ahmad A. 2007. 28-homobrassinolide protects chickpea (*Cicer arietinum*) from cadmium toxicity by stimulating antioxidants. ***Environmental Pollution*** 151 (1), 60-66. (Elsevier). doi:10.1016/j.envpol.2007.03.006
3. Yusuf, M., Hasan, S. A., **Barket Ali**, Hayat, S., Fariduddin, Q. and Ahmad, A. 2008. Effect of salicylic acid on salinity induced changes in *Brassica juncea*. ***Journal of Integrative plant Biology*** 50 (9): 1096–1102. (Wiley Online) doi: 10.1111/j.1744-7909.2008.00697.x
4. **Barket Ali**, Hasan, S.A, Hayat, S., Hayat, Q., Yadav, S., Fariduddin, Q. and Ahmad, A. 2008. A role for brassinosteroids on the amelioration of aluminum stress in mung bean (*Vigna radiata* L. Wilczek). ***Environmental and Experimental Botany*** 62,153-159. (Elsevier). doi:10.1016/j.envexpbot.2007.07.014
5. **Barket Ali**, Hayat, S. and Ahmad A. 2007. 28-Homobrassinolide ameliorates saline stress in chickpea (*Cicer arietinum* L.). ***Environmental and Experimental Botany***.59, 217-223 (Elsevier). doi:10.1016/j.envexpbot.2005.12.002
6. Hayat, S., **Barket Ali**, Hasan, S.A. and Ahmad, A. 2007. Brassinosteroid enhanced the level of antioxidants under cadmium stress in *Brassica juncea*. ***Environmental and Experimental Botany*** 60, 33-41. (Elsevier). doi:10.1016/j.envexpbot.2006.06.002

PAPERS WITH IMPACT FACTOR 2.1-5 (08 NUMBERS)

7. **Barket Ali** 2017 Practical Applications of Brasinosterods in Horticulture – Some Field Perspectives. ***Scientia Horticulturae*** 225, 15-21. (Elsevier) <http://dx.doi.org/10.1016/j.scienta.2017.06.051>
8. **Barket Ali**, Hayat S., Hasan, S.A. and Ahmad, A., 2006. Effect of root applied 28-homobrassinolide on the performance of *Lycopersicon esculentum* (Mill.) ***Scientia Horticulturae***.110, 267-273 (Elsevier). DOI:10.1016/J.SCIENTA.2006.07.015
9. **Barket Ali** 2021. Salicylic acid: An efficient elicitor of secondary metabolite production in plants. ***Biocatalysis and Agricultural Biotechnology*** 31, 101884. (Elsevier) <https://doi.org/10.1016/j.bcab.2020.101884>
10. **Barket Ali** 2021. Practical applications of jasmonates in the biosynthesis and accumulation of secondary metabolites in plants. ***Biocatalysis and Agricultural Biotechnology*** 38, 102205. (Elsevier) <https://doi.org/10.1016/j.bcab.2021.102205>
11. **Barket Ali**, Hayat, S., Hasan, S.A. and Ahmad, A. 2008. A comparative effect of IAA and 4-Cl-IAA on the growth, nodulation and nitrogen fixation in *Vigna radiata* L. Wilczek. ***Acta Physiologiae Plantarum*** 30, 35-41. (Springer). Doi: 10.1007/s11738-007-0088-4

12. **Barket Ali**, Hayat, S., Hayat Q and Ahmad A. 2010. Cobalt stress affects nitrogen metabolism, photosynthesis and antioxidant system in chickpea (*Cicer arietinum* L.). *Journal of Plant Interactions*, 5(3) 223-231. (Taylor & Francis Online) DOI: 10.1080/17429140903370584
13. Fariduddin, Q., Khanam, S. Hasan, S.A., **Barket Ali**, Hayat, S. and Ahmad, A. 2009. Effect of 28-homobrassinolide on the drought stress-induced changes in photosynthesis and antioxidant system of *Brassica juncea* L. *Acta Physiologiae Plantarum* 31(5) 141-146. (Springer) DOI: 10.1007/S11738-009-0302-7
14. Alam, M.M., Hayat, S., **Barket Ali** and Ahmad, A. 2007. Effect of 28-homobrassinolide treatment on nickel toxicity in *Brassica juncea*. *Photosynthetica* 45, 139-142. (Springer)

PAPERS WITH IMPACT FACTOR 1.1-2 (03 numbers)

15. **Barket Ali**, Hayat S., Hasan, S.A. and Ahmad, A. 2009. IAA and 4-Cl-IAA differentially affect the growth, nodulation, nitrogen fixation, photosynthesis and ethylene production in mung bean (*Vigna radiata* L. Wilczek). *Communications in Soil Science and Plant Analysis*, 39, 2695–2705. (Taylor & Francis Online)
16. Hayat, Q., Hayat, S., **Barket Ali** and Ahmad, A. 2009. Auxin Analogues and Nitrogen Metabolism, Photosynthesis, and Yield of Chickpea. *Journal of Plant Nutrition* 32, 1-17. (Taylor & Francis Online)
17. Hayat, S., Yadav S, **Barket Ali** and Ahmad, A. 2010. Interactive effect of nitric oxide and brassinosteroidson photosynthesis and antioxidant system of *Lycopersicon esculentum*. *Rusian Journal of Plant Physiology*, 57 (2) 212-221. (Springer)

PAPERS WITH IMPACT FACTOR UPTO 1 (03 numbers)

18. Hayat S., **Barket Ali**, Hasan, S.A., Hayat, Q., and Ahmad, A., 2007. Effect of 28-homobrassinolide on salinity-induced changes in growth, ethylene and seed yield of mustard. *Indian J. Plant Physiology* 12 (2) 207-211. (Springer)
19. **Barket Ali** 2017. Salicylic acid modulates the antioxidant system mediated resistance to aluminium stress in mung bean (*Vigna radiata* L. Wilczek) plants. *Indian J. Plant Physiology* 22 (2) 178-189. DOI10.1007/s40502-017-0292-1 (Springer)
20. **Barket Ali** 2014. Studies on lipid peroxidation and antioxidant enzymes in the germinating seeds of *Cicer arietinum* exposed to cobalt. *Journal of Environmental Biology* 35 (1) 279-283.

PAPERS WITH ISSN NUMBER (INTERNATIONAL) (07 numbers)

21. **Barket Ali**, Rani, I., Hayat, S. and Ahmad, A. 2007. Effect of 4-Cl-IAA on the seed germination of *Cicer arietinum* exposed to cadmium. *Acta Botanica Croatica*. 66(1): 57-65. (CROATIA).
22. **Barket Ali**, Hayat, S. and Ahmad, A. 2005. Response of germinating seeds of *Cicer arietinum* to 28-homobrassinolide and/or potassium. *General and Applied Plant Physiology* 31(1-2): 55-63 (BULGARIA).
23. Hayat, S., Fariduddin, Q., **Barket Ali** and Ahmad, A. 2006. Effect of chloroindole auxins on the growth and nitrate reductase activity in *Solanum melongena*. *Asian Journal of Plant Science*, 5(1): 14-16 (PAKISTAN).

24. Hayat, S., Fariduddin, Q., **Barket Ali** and Ahmad, A. 2005. Effect of salicylic acid on growth and enzyme activities of wheat seedlings. *Acta Agronomica Hungarica* 53(4): 433-437 (HUNGARY).
25. Hayat, S., **Barket Ali**, Hasan, S. A. and Ahmad A. 2007. Effect of 28-homobrassinolide on salinity-induced changes in *Brassica juncea*. *Turkish Journal of Biology*. 31, 141-146. (TURKEY)
26. Fariduddin, Q., Hayat, S., **Barket Ali**, and Ahmad, A. 2006. Effect of 28-homobrassinolide on the nitrate reductase, carbonic anhydrase activities and net photosynthetic rate in *Vigna radiata* L. *Acta Botanica Croatica*, 65(1): 19-23. (CRAOTIA).
27. Mazid M, **Barket Ali**, Hayat, S. and Ahmad, A. 2010. The effect of 4-chloroindole-3-acetic acid on some growth parameters in mung bean under cadmium stress. *Turk J Biol* 34: 9-13.

PAPERS WITH ISSN NUMBER (NATIONAL) (09 numbers)

28. **Barket Ali**, Ahmad, A., and Hayat, S. 2007. Effect of two natural forms of auxins (IAA and 4-Cl-IAA) on photosynthesis, enzyme activities and ethylene production in mung bean (*Vigna radiata* L. Wilczek) plants. *Journal of Plant Biology* 34 (1) 29-33.
29. **Barket Ali**, Shafiqa Muzaffar, Niyaz Ahmad Wani and Nighat Amin. 2013. Gibberellic Acid Modulates the Changes Induced by Phenolic Compounds on the Germination and Seedling Growth in Cucumber (*Cucumis sativus* L). *Journal of Functional and Environmental Botany*, 3 (2) 103-107. (INDIA)
30. **Barket Ali** 2016. Interactive effect of cobalt and some phenolic compounds on the seed germination in Cucumber (*Cucumis sativus* L.) *Indian Journal of Plant Sciences*, Vol 5, No 4, PP. 11-13.
31. Hayat, S., **Barket Ali** and Ahmad, A. 2006. Response of *Brassica juncea* to 28-homobrassinolide grown from the seeds exposed to salt stress. *Journal of Plant Biology*, 33(1-2): 169-174.
32. Shafiqa Muzaffar, **Barket Ali** and Niyaz Ahmad Wani. 2012. Effect of catechol, gallic acid and pyrogallol on the germination and seedling growth in cucumber (*Cucumis sativus* L.). *International Journal of Life Sciences Biotechnology and Pharma Research*. 1 (3) 1-6.
33. Nighat Amin, **Barket Ali**, Shafiqa Muzaffar, Irfanul Majeed and Nusrat Sayeed 2013. Symptoms, pathogen biology and control of downy mildew of *Brassica* – a minireview. *Journal of Biosphere* 2(1): 6-9.
34. Shafiqa Muzaffar and **Barket Ali**. 2015 Influence of Pulsing Treatments on Post-Harvest Longevity of Spikes of Dutch Iris (*Iris hollandica*). *Journal of Functional and Environmental Botany*. 5 (1) 27-52.
35. Bagh Hussain and **Barket Ali** 2015. Leaf longevity and adaptations in plants under water stress. *Indian Journal of Plant Science*, 4 (4) 127-133.
36. Shaista Qadir, **Barket Ali**, Rouf Qadir, Anis Fatima, Nahidatun N. Chisti, Shaista Shah 2016. Conventional and Non-Conventional Strategies for Conservation of Medicinal Plants–A Minireview, *Journal of Functional and Environmental Botany*, Vol 6, No 2, PP. 70-78.

37. **Barket Ali** 2022. Recuperative performance of 4-Cl-IAA and IAA in the fixation and assimilation of nitrogen in *Vigna radiate*. *Journal of Indian Botanical Society* Vol. 102 (2), 132-139.
38. **Barket Ali** 2023. Appraisal of the role of brassinosteroids in heavy metal stress mitigation in plants. (Communicated)
39. **Barket Ali** 2023. The role of salicylic acid in the productivity and maintenance of quality attributes of vegetables and fruits. (Communicated)

Impact factors (2021-22) of the papers published

S.No.	Name of Journal	Publishers	No. of papers	Impact factor	Total IF
1.	Environ. Pollution	Elsevier	01	9.988	9.988
2.	Chemosphere	Elsevier	01	8.943	8.943
3.	J. Integrative plant Biology	Wiley Online	01	7.061	7.061
4.	Environ. Exp. Botany	Elsevier	03	6.020	18.06
5.	J Plant Interaction	T and F	01	4.208	4.208
6.	Scientia Horticulturae	Elsevier	02	4.342	8.684
7.	Biocat. Agric. Biotechnol.	Elsevier	02	3.281	6.562
8.	Photosynthetica	Springer	01	2.562	2.562
9.	Acta Physiol. Plant	Springer	02	2.354	4.708
10.	J Plant Nutrition	T and F	01	1.707	1.707
11.	Russian J Plant Physiol	Springer	01	1.481	1.481
12.	Commun Soil Sci Plant analysis	T and F	01	1.327	1.327
13.	J Environ Biol	Trevini, India	02	0.719	1.438
14.	Ind J Plant Physiol	Springer	02	1.420	2.840
Cumulative impact factor		76.642	(01 Jul. 2022)		

Citations..... 3794 (Google scholar, Nov 2022)

h-index..... 25 (Google scholar, Nov. 2022)

i10 index..... 33 (Google scholar, July 2022)

Peer Reviewer of the Journals

S. No.	Name of Journal	Publisher	Number
1.	Biocatalysis and Agricultural Biotechnology	Elsevier	01
2.	Ecotoxicology and environmental Safety	Elsevier	01
3.	Biotechnology Advances	Elsevier	01
4.	Journal of plant Growth regulation	Springer	02
5.	Frontiers in Plant Sciences	MDPI	01

CHAPTERS CONTRIBUTED IN BOOKS

1. Hayat, S., **Barket Ali** and Ahmad, A. 2007. Salicylic acid: Biosynthesis, Metabolism and Physiological Role in Plants. *In*: S. Hayat and A. Ahmad (Eds.) Salicylic acid: A Plant Hormone. **Springer**, pp. 1-14.
2. **Barket Ali**, Hayat, S., Fariduddin, Q and Ahmad, A. 2006. 4-Chloroindole-3-acetic acid: Metabolism and Bioactivity in Plants. *In* : A. Hemantaranjan (Ed) Advances in Plant Physiology. Scientific Publishers Jodhpur, **INDIA**, Vol. 9, pp. 369-375.
3. **Barket Ali**, Hayat, S., Fariduddin, Q and Ahmad, A. 2008. Nickel: Essentiality, toxicity and tolerance in plants. *In*: B.Ali, S.Hayat and A.Ahmad (Eds) Nickel in relation to plants. Narosa Publishing House Pvt. Ltd., New Delhi. **INDIA** Pp. 70-88.
4. Bashmakov, D I., Lukatkin, A. S. and **Barket Ali**, 2008. Nickel in Russian temperate zone weeds and crops: accumulations and effects. *In*: B.Ali, S.Hayat and A.Ahmad (Eds) Nickel in relation to plants. Narosa Publishing House Pvt. Ltd., New Delhi. **INDIA** Pp. 33-67.
5. Dar MI, Naikoo MI, Green ID, Syeed N, **Barket Ali** and Khan FA. 2018. Heavy metal Hyperaccumulation and hyper tolerance in Brassicaceae. *In*: Hasanuzzaman et al (Eds.) Plants Under Metal and Metalloid Stress Pp 262-275 (**Springer**).
6. **Barket Ali** 2019. Brassinosteroids: The promising plant growth regulators in horticulture. *In*: S. Hayat et. al. (Eds.) Brassinosteroids: Plant growth and development. (**Springer**).
7. **Barket Ali**, Zahoor A. Wani and Mudasir Irfan Dar. 2021. Brassinosteroids - The Phytohormones with Potential to Enhance the Secondary Metabolite Production in Plants. *In* M. Shah Nawaz (Ed) Biotechnological approach to enhance secondary metabolites: Recent trends and future prospects. Pp. 125-132. **CRC Press/Taylor and Francis Group**. DOI: 10.1201/9781003034957-8
8. **Barket Ali** 2022. Role of salicylic acid in pre- and post-harvest attributes in horticulture. *In* S. Hayat et al (eds) Salicylic acid: A versatile plant hormone (**Springer**) pp. 47-64. DOI: 10.1007/978-3-030-79229-9_4
9. **Barket Ali** 2022. Exploiting the recuperative potential of brassinosteroids in agriculture. *In*: A. Krishana and G. Sirhindi (Eds) Jasmonates and Brassinosteroids in Plants: Metabolism, signaling and Applications. Pp. 177-185. **Taylor and Francis Group** DOI: 10.1201/9781003110651-16
10. **Barket Ali** 2022. Physiological role, toxicity, hyperaccumulation and tolerance of nickel in plants. *In*: V. Kumar, A. Sharma and R. Setia (Eds.), Appraisal of Metal(oids) in the ecosystem. pp 105-133. **Elsevier**. <https://doi.org/10.1016/B978-0-323-85621-8.00001-7>
11. **Barket Ali** 2023. Plant hormones (brassinosteroids, salicylates and jasmonates) as potential mitigators of pesticide and herbicide stress in plants. *In*: A. Sharma, V. Kumar and B. Zhang (Eds.), Pesticides in the environment. Pp **Elsevier**

SYMPOSIA/CONFERENCE/WORKSHOPS/COURSES ATTENDED

Orientation/Refresher courses and FDPs

1. **General orientation Course** organized by academic staff college, Dec. 2009 to Jan. 2010. University of Jammu, Jammu, (J&K).

2. **Subject refresher course** (Research Methodology in Agricultural Sciences) 30 Jan. 2013 to 19 Feb. 2013. UGC Academic Staff College, Aligarh Muslim University, Aligarh.
3. **Subject refresher course** (Research methodology in Agricultural sciences) 27 Feb. 2015 to 20 March 2015. UGC Academic Staff College, Aligarh Muslim University, Aligarh
4. **Subject refresher course** (Food and Biotechnology 31 Jan 2018 to 20 Feb 2018. UGC Human Resource Development Centre, Aligarh Muslim University, Aligarh
5. **Two week refresher course in Natural Sciences** June 28 - July 12, 2022. Organized by Teaching and learning Centre, Ramanujan College, University of Delhi.
6. **One week Faculty Development Program** on “*Safety and hygiene online (cyber world)*”. 01 - 08 March 2021. Teaching and learning Centre, Ramanujan College, University of Delhi.
7. **One week Faculty Development Program** on “*Open source tools for research*”. 03 - 09 April 2021. Teaching and learning Centre, Ramanujan College, University of Delhi.
8. **One week Faculty Development Program** on “*National Education Policy-2020: Re-envisioning Higher Education in India*”. 30 Aug - 07 Sep 2021. Teaching and learning Centre, Ramanujan College, University of Delhi.
9. **One week Faculty Development Program** on “Soft Skills and Presentation Skills”. 23-30 September, 2021. HRDC, AMU, Aligarh.
10. **One week International Faculty Development Program** on “Soft skills, emotional intelligence and effective classroom management”. 24-30 Oct., 2021. Jointly Organized by JSS College of Arts, Commerce and Science, Mysuru, Karnataka & Malaysian Industrial Relations and Human Resource Association, Malaysia.
11. **Two week Faculty Development Program** on “Higher education in the Post Covid-19 era: Challenges, strategies and innovations” organized by BGSBU Rajouri 14-27 Feb. 2022.
12. **One week Faculty Development Program** on “Emerging trends in Teaching, Learning and Research” organized by Centre for Hospitality and Tourism, BGSBU Rajouri 23-28 May, 2022.
13. **One week Faculty Development Program (online)** on “Neuro Linguistic Program (NLP) as a tool in classroom for teachers to enhance the communication, learning skills and personality development. Organized by Department of Zoology, GDC Doda, J&K. 24-30 May 2022.
14. **Two weeks International online Faculty Development Program** on “Research Methodology” Jointly organized by GDC Rajouri, Tshwane University of Technology, Pretoria, South Afrucica and University of Johansberg, South Africa. 28 Dec 2022 to 08 Jan. 2023.
15. **One week International Faculty Development Program** on “Holistic Pedagogy” Organized by Don Bosco College, TC Palya, Bengaluru in collaboration with Globethics.net India. 09-15 Jan. 2023.

Workshops/Trainings

16. **Workshop** on “Environment and Pollution Awareness”. Nov. 27, 2004. Faculty of Engineering and Technology, Aligarh Muslim University, Aligarh, India.

17. **Workshop** on “Genome Analysis: A Bioinformatics Approach”. Feb. 24 & 25, 2007. Biotechnology unit, Aligarh Muslim University, Aligarh, India.
18. **Workshop on Script Writing and Content Generation** 23-24 March, 2011. Organised by: Government College for Women, M. A. Road, Srinagar-190001, Jammu and Kashmir.
19. **Two Days Workshop on DNA isolation, diversity assessment and analysis using ISSR markers in plants**, under SERB scientific, social responsibility policy. 11-12 Feb., 2022. Organized by Botany Department, University of Jammu.
20. **One week Workshop on “Towards Smart Teaching”** organized by BGSBU Rajouri. 4-10 April, 2022.
21. **One week International Short Term Training Programme-3** on “Contrivance of Sustainable Development Goals (SDGs) for Environmental Conservation” organized by Raj Rishi Govt. Autonomous College Alwar, Rajasthan. 24th-30th June 2022.
22. **One week International Short Term Training Programme-4** on “Methods, Modeling, Data and Tools of Environmental Conservation” organized by Raj Rishi Govt. Autonomous College Alwar, Rajasthan. 1st -7th November 2022.
23. **One week International Short Term Training Programme-5** on “Production and regulation of chemicals and toxins for environmental Conservation” organized by Raj Rishi Govt. Autonomous College Alwar, Rajasthan. 7-13 December 2022.
24. **One day workshop** on “Research methodology” organized by Govt. Degree College Kathua, Jammu and Kashmir. 23 January 2023.
25. **One day workshop** on “Intellectual Property Rights” organized by Office of the Controller General of Patents, Designs and Trademarks, Government of India and Govt. Degree College Kathua, Jammu and Kashmir. 25 January 2023.

Conferences/Seminars/Symposia

26. **National Symposium** on Plant Biology and Biodiversity. Dec. 29-31, 2003. Jamia Hamdard, New Delhi, India.
27. **National Seminar** on New Strides in Microbiology, Biochemistry, Biotechnology and Agriculture Science, 3rd & 4th Feb., 2007, organized by Doon (PG) Paramedical College & Hospital, Dehradun (U.A.).
28. **International conference** on “Policy, People and peace- Democratization of Foreign Policy in Parliamentary Democracies: Canada, India and Beyond.” December 14-16, 2009. University of Jammu, Jammu, (J&K).
29. **Science Congress (5th JK) on Science for Society**. 8-10 Feb. 2010. University of Jammu, Jammu and Kashmir.
30. **National Seminar** on Plant Sciences: New technologies, consevation and Environment. Feb 23-24, 2013. Department of Botany, Aligarh Muslim University, Aligarh, U.P.
31. **Science Congress (12th JK) on Science for Society**. 2-4 Mar. 2017. University of Jammu, Jammu and Kashmir.
32. **International Conference** (one day) on “Kashmir in the Collective Imagination” 27th march, 2017. Government Degree Colleges Utrasoo, Larnoo and Doru, Kashmir.
33. **Two days National Conference “Present Scenario in Higher Education”** 30 & 31 Dec 2019. GDC Kishtwar, J & K.

34. One day **Virtual Symposium on Biophysics** organized by Jamia Milia Islamia, New Delhi. (23 Feb 2021)
35. Two days multidisciplinary **National Conference** on “*Recent innovations in Science, Social Science, Humanities and Arts*” organized by GDC Poonch (23-24 March, 2021).
36. **Two Days Virtual International Conference** “7th GOGreen Summit-2021”. Organized by “International society of environmental relationship and sustainability”. **Presentation entitle** “Application of 28-homobrassinolide on the management of NaCl stress in chickpea” 14-15 October, 2021.
37. **Two Days 16th International Symposium** on “Metals in Biology and Medicine” Jointly Organized by Nehru Science Centre, Mumbai and Jamia Milia Islamia, New Delhi. 30 Nov and 1 Dec. 2021. **Presentation title** “Metals in plant biology”.
38. **Two Days International Conference on Environment, water, agriculture, sustainability and Health: United together in the battle against pandemic. Presentation entitle:** Salicylates and salt stress tolerance in plants. **21-22 Jan, 2022.** Jointly Organized by Save the environment and Hindu College, University of Delhi, Delhi, India
39. **Two Days National Seminar** on “Plants and fungi-Polyphasic characterisation and bioprospection” Organized by Botany Department, University of Jammu. 25-25 March 2022. **Presentation title:** Effect of Jasmonic acid on the abiotic stress in mung bean plants.
40. **Two Days International Webinar on** “Climate change and its impact on Ecosystem: Mitigation and Adaptation” 10-11 June 2022. Organized by International Foundation for Environment and Ecology, Kolkata; GDC Kilhotran, Jammu and Kashmir and Bhairab Ganguly College, West Bengal.
41. **Two Days National Conference on** “Biodiversity, Climate Change and Food Security for Livelihood with Multidisciplinary Approach for Sustainable Development” Organized by Government Degree College Doda, Jammu and Kashmir. 03-04 August 2022.
42. **One Day International Seminar** On “Impact Of Ozone Layer Depletion On Climate Change” organized by Raj Rishi Govt. Autonomous College Alwar, Rajasthan. 16 September 2022.
43. **One Day Virtual National Conference on** “Science for the sustainable living” organized by Govt. Degree College Thannamandi, Rajouri, Jammu and Kashmir. 10 November, 2022.
44. **One Day Virtual National Conference on** “Developmentalism Vs Peaceful livelihood in the present scenario” organized by Indian Geographers and International Geographers, Held at Lalganj, Vaishali, India. 19 November, 2022.
45. Two Days **International Conference on** “Ethnobiology: present and future prospects” organized by Govt. Degree College Billawar, Jammu and Kashmir. 25-26 November, 2022. **Presentation title:** Ameliorative effect of 28-homobrassinolide on the NaCl stress induced changes in chickpea.
46. **One Day national Seminar** On “Contemporary trends in geography” organized by Ramananda Centenary College. 13 December 2022. **Presentation title:** Phytogeography - A relationship between plant biology/biodiversity and geography
47. **One Day Virtual National Conference on** “Contemporary issues in geography” organized by Indian Geographers and International Geographers, Held at Lalganj, Vaishali, India. 19 December, 2022.

48. **One Day National Conference on** “National education policy-2020 and role of higher education for sustainable development goals in India” organized by C.B Khedgi’s Basaveshwar Science Raja Vijaysinh Commerce and Raja Jaysinh Arts College Akkalkot, Maharashtra in collaboration with National Assessment and Accreditation Council (NAAC), India. 26 December, 2022. **Presentation title:** Information and communication technology (ICT) – A boon to the teaching in higher education.
49. **One Day national Seminar** On “Advancement and strategies for sustainable development and environmental protection” organized by Netaji Subhash Chander Bose Govt. Girls PG College, Aligunj, Lucknow. 17-18 Jan. 2023. **Presentation title:** The physiology of toxicity and tolerance of abiotic stress in plants.
50. Three Days **International Conference on** “Multidisciplinary aspects of human rights and the environment (ICMAHRE-2023) organized by: Govt. Maharani Sudarshan College for Women, Bikaner, Rajasthan and Raj Rishi Govt. Autonomous College Alwar, Rajasthan. 18-20 January 2023. **Presentation title:** Impact of climate change on plant biodiversity.

National Service

1. **Returning Officer**, Panchayat Elections, Trigam A, B and C, District Kishtwar, Jammu and Kashmir. Oct-Nov, 2018.
2. **Zonal Magistrate**, Bonjwah Zone (Lower), District Kishtwar, Jammu and Kashmir. Parliament Elections, May 2018.
3. **Returning Officer**, Panchayat Elections, Panchayats Inshan and Mulwarwan, Warwan, District Kishtwar. Nov-Dec 2020.
4. **Counting Supervisor**, DDC Elections, Counting Center Paddar, District Kishtwar. Nov-Dec 2020.

Personal Profile

Father’s Name: Mr. Ghulam Qadir
 Mother’s Name: Mrs. Naseema Begum
 Date of Birth: 15.4.1978
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Place and Date

Signature