

Dr. Bilal Ahmad Mir

Fellow- International Society for Development & Sustainability (Japan)
DBT-Energy Bioscience Overseas Fellow

Current Designation & Affiliation	Senior Assistant Professor & Coordinator Department of Botany, North Campus, University of Kashmir, Jammu & Kashmir, INDIA.	
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ACADEMIC PROFILE

- 2011 Ph. D (Botany); Guru Nanak Dev University, Amritsar, INDIA & CSIR-Indian Institute of Integrative Medicine, Jammu, J&K INDIA
- Thesis:** Characterization of Genetic Variability in *Withania somnifera* L. (Dunal.) using Biochemical and Molecular Markers.
- 2006 M. Sc. Botany (with Distinction), Savitribai Phule Pune University, Pune, INDIA.
- 2003 B. Sc. (Biology & Chemistry), Amar Singh College, University of Kashmir, INDIA.
- 1999 Senior Secondary, 12th (Chemistry, Physics & Biology), JKBOSE, INDIA.
- 1997 Secondary (10th), (Mathematics, G. Science, S. Studies, Urdu & English), JKBOSE, INDIA.

DETAILS OF EMPLOYMENT/POSITIONS HELD

Details of Employment	Name of Organization	From	To	Nature of Work
Senior Assistant Professor & Coordinator	Department of Botany, North Campus, University of Kashmir, Delina, Baramulla, J&K, INDIA	August 2023	Till date	Admin/Research & Teaching
Senior Assistant Professor	Department of Botany, University of Kashmir, Srinagar, J&K INDIA	September 2022	August 2023	Research & Teaching
Coordinator	Department of Botany, University of Kashmir (Kargil Campus)	November 2017	December 2020	Admin/Research/Teaching
Assistant Professor	Department of Botany, University of Kashmir (Kargil Campus)	March 2016	September 2022	Research & Teaching
DBT-Energy Bioscience Overseas Fellow	University of Kashmir, Hazratbal, Srinagar, J&K INDIA	February 2016	September 2020	Research
Senior Scientist	Food Lab Division, Vardan Envirolab, Haryana, India	November 2015	February 2016	Research
Freestanding Postdoctoral Fellow	University of Pretoria, South Africa	March 2014	October 31, 2015	Research & Teaching
Vice Chancellor's Postdoctoral Fellow	University of Pretoria, South Africa	November 2012	February 2014	Research & Teaching
Postdoctoral Research Associate	Department of Botany, University of Delhi, New Delhi	March 2012	November 2012	Research
Assistant Professor (contractual)	University of Kashmir, Srinagar, J&K, India	15.04.2011	29 February 2012	Research & Teaching
Junior & Senior Research Fellow	CSIR-Institute of Integrative Medicine, Jammu, India	January 2007	November 2010	Research

AWARDS/HONOURS/ FELLOWSHIPS

S. No	Awards/Fellowships/Honours	Year
1.	Certificate of Appreciation by Springer, Society for Plant Research India in recognition of services as Editor of Springer-Vegetos	2025
2.	Certificate of Appreciation by Springer, Society for Plant Research India in recognition of services as Editor of Springer-Vegetos	2024
3.	Young Scientist Award-2021 (Botany) by Society for Plant Research & Springer-Vegetos	2022
4.	Best Presentation Award at National Conference on Recent Innovations, Trends and Challenges in Plant Science and Research (NCRITCPSR) held in Tamil Nadu	March 25-26, 2022
5.	Fellow, International Society for Development & Sustainability (Japan)	2021
6.	Member Royal Society of Biology (London, UK)	July 01, 2021
7.	Prestigious Bio-energy Awards for Cutting Edge Research (B-ACER) Fellowship" by Department of Biotechnology, Govt. of India and Indo-US Science and Technology Forum (IUSSTF) at University of California, USA	2019
8.	Travel Grant Award by IndiaBioscience for attending YIM 2019 as Young PI at Guwahati, India	6-10 March 2019
9.	INSA Visiting Scientist Fellowship at NCSBS-TIFR, Bangalore, India	2017
10.	Early Career Research Award by SERB, DST, GOI, New Delhi	2017
11.	Visiting Professor at The University of Queensland (Australia)	2016
12.	Prestigious DBT-Energy Bioscience Overseas Fellowship (Re-entry fellowship) by Department of Biotechnology, Ministry of Science and Technology, GOI, New Delhi	2016
13.	International Travel Grant Award by DST for attending international conference on 'Sustainable Forest development in view of Climate Change (SFDCC 2016)' at Universiti Putra Malaysia, Malaysia	2016
14.	International Travel Grant Award by IndiaBioscience for attending YIM 2015 as Postdoctoral Fellow at Srinagar, J&K, INDIA (from South Africa)	27-31 March, 2015
15.	Freestanding Postdoctoral Fellowship, National Research Foundation (NRF), South Africa.	2014
16.	NRF International Travel Grant Award for attending International Conference on 'Bioenergy from Forests-2014' at Helsinki, Finland.	15-19 September, 2014
17.	Dr. D.S. Kothari Postdoctoral Fellowship, University Grants Commission (UGC), New Delhi	2013
18.	Vice-Chancellors Postdoctoral Fellowship at University of Pretoria, South Africa	2012
19.	International Travel Grants Awards by DST for attending International Conference on Plant Molecular Biology at St. Louis, Missouri, USA	2010
20.	Best Poster Presentation Award at 96 th Indian Science Congress, Shilong, INDIA	2009
21.	International Travel Grants Awards by CSIR for attending International Conference on Environment and Bioscience-ICEBS at Cairo, Egypt	2009

EXTRAMURAL RESEARCH PROJECT (COMPLETED/ONGOING/SUBMITTED)

S. No.	Title of the Project	Funding Agency	Amount (in Lacs)	Role & Award Date	Duration & Status
1.	Understanding High-Altitude Plant Adaptations under Changing Climate for Environmental Sustainability in Kashmir Himalaya (ANRF-PAIR Sub-project)	Anusandhan National Research Foundation (ANRF), DST, Govt. of India New Delhi	279.50	Co-Principal Investigator	5 Years Submitted
2.	Studies on betalain biosynthesis in <i>Amaranthus tricolor</i> and characterization of amaranthin synthetase	Department of Biotechnology, Govt. of India	98.20	Principal Investigator	3 Years Submitted
3.	Autotetraploid induction in critically endangered high value Himalayan medicinal plant <i>Podophyllum hexandrum</i> as a means of, preventing extinction, mitigate climate change(s), colonize new ecogeographical regions and genetic improvement	Department of Biotechnology, Ministry of Science & technology, Govt. of India	28.62	Co-Principal Investigator January 07, 2021	3 Years Completed

4.	Cloning and expression of thermophilic/hyperthermophilic lignocellulose digesting enzymes in plants for advanced biofuel production	Department of Biotechnology, Ministry of Science & technology, Govt. of India	32.5	Principal Investigator February 2016	5 Years Completed
5.	Isolation and functional analysis of oxidosqualene cyclase genes in <i>Withania somnifera</i> (BSR UGC start-up Grant)	University Grants Commission, Govt. of India, New Delhi	10.0	Principal Investigator March 2017	2 Years Completed
6.	Metabolic engineering of Withanolides biosynthesis pathway in Indian ginseng (<i>Withania somnifera</i>) for enhanced withanolide accumulation	SERB, DST, Govt. of India	43.3	Principal Investigator March 2017	3 Years Completed

CONSULTANCY PROJECTS, SEED MONEY, EQUIPMENT, INFRASTRUCTURE & OUTREACH GRANTS MOBILIZED

S. No.	Title of the Project// Programme/Scheme	Principal Investigator/ Coordinator of the Project/Programme	Budget Head	Funding Agency (F.Y)	Amount (in Lacs)
1.	Conservation, Cultivation and Entrepreneurship Development in Medicinal and Aromatic Plants (Phase-II)	Dr. Bilal Ahmad Mir Department of Botany	Entrepreneurship programme and promotion of startup culture at Kashmir University	University of Kashmir (2024-25)	20.00
2.	Procurement of Equipments for Newly Established Department at North Campus (Equipment/Seed Grant)	Dr. Bilal Ahmad Mir Coordinator Department of Botany	Local Funds of the North campus and Service Charges Head of Accounts	University of Kashmir (2024-25)	50.0
3.	Renovation and Aluminum partitioning of the of Departmental laboratory/classrooms	Dr. Bilal Ahmad Mir Coordinator Department of Botany	Local Funds of the North campus and Service Charges Head of Accounts	University of Kashmir (2024-25)	1.5
4.	Capacity Building Programme on Cultivation Medicinal and Aromatic Plants for North Kashmir (Phase-I)	Dr. Bilal Ahmad Mir Department of Botany	Creating Tangible Skill Programme at Kashmir University	University of Kashmir (2023-24)	3.00
5.	Construction of laboratory for Department of Botany at North Campus (Infrastructure/Seed Grant)	Coordinator Department of Botany	Local Funds of the North campus and Consolidated fund of Accounts	University of Kashmir (2023-24)	13.68
6.	Organization of Regional Young Investigators Meeting-2023	Dr. Bilal Ahmad Mir (Lead Organizer, RYIM-2023)	Service Charges Head of Accounts	University of Kashmir (2023-24)	0.84
7.	Organization of Regional Young Investigators Meeting-2023	Dr. Bilal Ahmad Mir (Lead Organizer, RYIM-2023)	Consultancy (Out Reach Grant)	IndiaBioscience, Bangalore (2023-24)	2.00
8.	Organization of Regional Young Investigators Meeting-2023	Dr. Bilal Ahmad Mir (Lead Organizer, RYIM-2023)	Consultancy (Out Reach Grant)	JK Science Technology & Innovation Council (2023)	0.50
9.	Organization of Regional Young Investigators Meeting-2023	Dr. Bilal Ahmad Mir (Lead Organizer, RYIM-2023)	CSR Budget Head	JK Bank, Branch Hazratbal (2023-24)	1.00
Total Equipment/Seed/Infrastructure/Outreach Grant Mobilized by Department					92.52

RESEARCH PUBLICATIONS

1. Latif Ahmad Peer, Aijaz Ahmad Wani, Zahoor Ahmad, **Bilal Ahmad Mir**. (2025). Drought Stress Memory in Maize: Understanding and harnessing the past for future resilience. *Plant Cell Reports*. (Accepted for Publication). **IF. 5.3.**
2. Samvedana Chauhan, Deepshikha Chatterjee, Latif Ahmad Peer, **Bilal Ahmad Mir**, Shashi B Babbar. (2025). Nitric Oxide and Cyanide Enhance Flowering in *Lemna gibba* through a Stress-Mediated Pathway under Inductive Conditions. *Journal of Plant Growth Regulation*. (Accepted for Publication). **IF. 3.9.**
3. Samvedana Chauhan, Deepshikha Chatterjee, Latif Ahmad Peer, **Bilal Ahmad Mir**, Shashi B. Babbar. (2025). Salicylic Acid-Triggered Flowering in *Lemna gibba*: Evidence of a Stress-Mediated Pathway via NO and ROS. *Journal of Plant Biochemistry and Biotechnology*. (Accepted for Publication). **IF. 1.6.**
4. Latif Ahmad Peer & **Bilal Ahmad Mir**. (2025). Genetic and Molecular Mechanisms of Plant Reproduction in Response to Climate Change: Shaping the Future of Agriculture. *The Botanical Reviews*. (Accepted for Publication). **IF 2.8.**
5. Latif Ahmad Peer & **Bilal Ahmad Mir**. (2025). Advances in Understanding and Manipulating Self-Incompatibility Mechanisms in Plants: Implications for Crop Improvement and Evolutionary Biology. *Plant Molecular Biology*. (Accepted for Publication). **IF. 3.9.**
6. Nahida Rehman Mir, Nitika Kapoor, **Bilal Ahmad Mir**, Renu Bhardhwaj. (2025). Revitalizing Soils: Biochar's Battle Against Heavy Metal Menace in Plants - A Review. *Pedosphere* (Accepted for Publication). **IF. 5.2.**
7. Michaël Kenne Fomekong, Elise Fabiola Tchouake Tetang, Carine Nono Temegne, Paul Agendia Atabong, Godswill Ntsefong Ntsomboh, **Bilal Ahmad Mir**, Emmanuel Youmbi, Libert Brice Tonfack. (2025). Effect of halopriming on seed germination performance and early seedling establishment in okra (*Abelmoschus esculentus* (L.) Moench) under saline conditions. *Plant Physiology Reports*. **30**, 146–159. DOI: <https://doi.org/10.1007/s40502-024-00818-z>. **IF. 1.7.**
8. Fayaz, S., Rather, M.A., Lone, A.A., Dar Z.A., Bilal Ahmad Mir, Latif Ahmad Peer. (2025). Morphological Characterization and Phenotypic Variability of Common Bean (*Phaseolus vulgaris* L.) Germplasm Lines from Kashmir. *Current Agricultural Research Journal*. **13**, 1.
9. Latif A. Peer, Mohd. Y. Bhat, Ajaz A. Lone, Zahoor A. Dar, **Bilal Ahmad Mir**. (2024) Genetic, molecular and physiological crosstalk during droughttolerance in maize (*Zea mays*): pathways to resilient agriculture. *Planta*. 260:81. DOI: <https://doi.org/10.1007/s00425-024-04517-9>. **IF. 3.6.**
10. Rather, M.A., Lone, A.A., Dar Z.A., Fayaz, S., **Bilal Ahmad Mir**, Peer, Latif Ahmad Peer. (2024). Comprehensive Morphological Characterization of Cowpea (*Vigna unguiculata* (L.) Walp.) Genotypes for Enhanced Breeding Programs in Jammu and Kashmir. *Current Agricultural Research Journal*. **12**, 3. 1257-1267. <http://dx.doi.org/10.12944/CARJ.12.3.20>.
11. Aaqib Maqbool Mir, **Bilal Ahmad Mir**, Latif Ahmad Peer. (2024). Medicinal plants of the Himalayan Tral region of Kashmir, India: an ethnobotanical study of their diversity, use patterns, and health implications. *Ethnobotany Research and Applications*. **27**:33. DOI: [hLp://dx.doi.org/10.32859/era.27.33.1-19](https://doi.org/10.32859/era.27.33.1-19).
12. Manzoor Hussain, Shashi Kiran, Irfan Sayed, Jabeena Khazir, Tariq Maqbool, Mohd Ibrahim, Satwinderjeet Kaur, Bilal Ahmad Mir*, Praveen Rahi. (2024). Altitude-dependant influence of *Artemisia brevifolia* on its Rhizosphere microbiome in Ladakh region of the Western Himalayas. *Rhizosphere*. **30**: 100918. **IF. 3.7.**
13. Kulbhushan Thakur, Tejveer Singh, Deepika Sharma, Nipun Padha, Bilal Ahmad Mir, Atika Chandra, Vijay Rani Rajpal* (2024). Exploring the Therapeutic Potential of Traditional Medicinal Foods in Cancer Treatment: Molecular Evidence and Bioactivities. *Current Topics in Medicinal Chemistry*. DOI: [10.2174/0115680266328466240829045659](https://doi.org/10.2174/0115680266328466240829045659). **IF. 3.4.**
14. Jabeena Khazir, Sajad Ahmed, Rakesh Kr Thakur, Manzoor Hussain, Sumit G Gandhi, Sadhana Babbar, Shabir Ahmad Mir, Nusrat Shafi, Libert Brice Tonfack, Vijay Rani Rajpal, , Bilal Ahmad Mir*, Latif Ahmad Peer* (2024). Repurposing of Plant based antiviral molecules for Covid-19 treatment. *Current Topics in Medicinal Chemistry*. **24**(7). 614-633. **IF. 3.4.** (20 Feb. 2024). ISSN: 1873-4294.
15. Manzoor Hussain, Jabeena Khazir, Rakesh Kr Thakur, Mohammad Imtiyaj Khan, Praveen Rahi, VS Pragadheesh, Satwinderjeet Kaur, Vijay Rani Rajpal, Deepma Sehgal, Soom Nath Raina, Bilal Ahmad Mir*. (2024). Traditional uses, phytochemistry, pharmacology, and toxicology of the genus *Artemisia* L. (Asteraceae): A high value medicinal plant. *Current Topics in Medicinal Chemistry*. **24**(4). 301-342. DOI: [10.2174/1568026623666230914104141](https://doi.org/10.2174/1568026623666230914104141). **IF. 3.4.** (27 Sept. 2023). ISSN: 1873-4294.
16. Darius N Tchoutang, Libert Brice Tonfack, Bilal Ahmad Mir, Emmanuel N Foamouhoue, Emmanuel Youmbi (2023). Micropropagation from cotyledonary explants of grapefruit (*Citrus paradisi* Macf.) by indirect and direct organogenesis. *Cameroon J. Exp. Biol.* Vol. **17**(02), 15-20. (ISSN 1816-0573). Published on 28 December 2023. DOI: [10.4314/cajeb.v17i2.3](https://doi.org/10.4314/cajeb.v17i2.3).
17. Poonam Chowdhary, Mudassir Ahmad Bhat, Abdul Shakoor, Priya Badgal, Amarjit Singh Soodan, Bilal Ahmad Mir* (2023). Phytoliths analysis in root, culm, leaf and synflorescence of *Rostraria cristata* (Poaceae). *Journal of Plant Research*. **136**: 787–801 (DOI: [10.1007/s10265-023-01485-1](https://doi.org/10.1007/s10265-023-01485-1)). **IF. 2.8.**
18. Poonam Chowdhary, Mudassir Ahmad Bhat, Priya Badgal, Abdul Shakoor, Amarjit Singh Soodan, Bilal Ahmad Mir* (2023). Phytolith profiles of *Lolium perenne* L. from the Kashmir Himalayas. *Brazilian Journal of Botany*. **47**: 997-1014 <https://doi.org/10.1007/s40415-023-00915-7>. **IF. 1.6.**

19. Tanzil Gaffar Malik, Lokesh Kumar Sahu, Mansi Gupta, Bilal Ahmad Mir, Triratnesh Gajbhiye, Rashmi Dubey, Andrea Clavijo McCormick, Sudhir Kumar Pandey (2023). Environmental factors affecting monoterpene emission factors from terrestrial vegetation. *Plants*. 12, 3146. DOI: <https://doi.org/10.3390/plants12173146>. **IF. 4.5.**
20. Manzoor Hussain, Sajad Ahmed, Mohd Ibrahim, Jabeena Khazir, Sheikh Showkat Ahmad, Rakesh Kr Thakur, Renu Bhardwaj, Sumit Gandhi, Latif Ahmad Peer, Satwinderjeet Kaur, Bilal Ahmad Mir* (2023). Phenolic content, antioxidant and allelopathic potential of *Artemisia brevifolia* wall ex dc across the elevations of Western Himalayan region of Ladakh. *South African Journal of Botany*. 157. 508-519. **IF. 3.1.**
21. Sajad Ahmed, Rekha Chauhan, Alim Junaid, Vijay Lakshmi Jamwal, Jitendra Thakur, Bilal Ahmad Mir, Sumit G. Gandhi* (2023). Transcriptome Analysis and Differential Expression in *Arabidopsis thaliana* in response to rohitukine (a chromone alkaloid) treatment. *Functional & Integrative Genomics*. 23. Article No. 35 (DOI: <https://doi.org/10.1007/s10142-023-00961-0>). **IF. 3.674.**
22. Palak Bakshi, Pooja Sharma, Rekha Chouhan, Bilal Ahmad Mir, Sumit G. Gandhi, Renu Bhardwaj, Pravej Alam & Parvaiz Ahmad (2023). Interactive effect of 24-epibrassinolide and plant growth promoting rhizobacteria inoculation restores photosynthetic attributes in *Brassica juncea* L. under chlorpyrifos toxicity. *Environmental Pollution*. 320, 120760. (DOI: <https://doi.org/10.1016/j.envpol.2022.120760>). **IF. 8.9.**
23. Vijay Rani Rajpal, Suman Sharma, Deepmala Sehgal, Prashansa Sharma, Nikita Wadhwa, Priyanka Dhakate, Atika Chandra, Rakesh Kr Thakur, Sohini Deb, Satyawada Rama Rao, Bilal Ahmad Mir, Soom Nath Raina. (2023). Comprehending the dynamism of B chromosomes in their journey towards becoming unselfish. *Frontiers in Cell & Developmental Biology*. 10: 1072716. (DOI: 10.3389/fcell.2022.1072716). **IF. 5.5.**
24. Diptaraj Chaudhari, Shashi Kiran, Ashish Choudhary, Kris Silveira, Nitin Narwade, Dhiraj Dhotre, Jabeena Khazir, Bilal Ahmad Mir, Yogesh S Shouche & Praveen Rahi (2023). Prokaryotic communities adapted to microhabitats on the Indian lotus (*Nelumbo nucifera*) growing in the high-altitude urban Dal Lake. *International Microbiology*. 26: 257-267. (DOI: <https://doi.org/10.1007/s10123-022-00297-y>). **IF. 3.1.**
25. Nandita Nataraj, Manzoor Hussain, Mohd Ibrahim, Alexander E. Hausmann, Srinivas Rao, Satwinderjeet Kaur, Jabeena Khazir, Bilal Ahmad Mir*, Shannon B Olsson* (2022). Effect of altitude on volatile organic and phenolic compounds of *Artemisia brevifolia* wall ex dc. from the Western Himalayas. *Frontiers in Ecology and Evolution*. 10. 864728. **IF. 3.0**
26. Shabir Ahmad Mir, Mohammed Alaidarous, Bader Alshehri, Bilal Ahmad Mir, Abdul Aziz Bin Dukhyil, Saeed Banawas, Ahmad Firoz, Suliman A. Alsagaby, Yahya Awaji Madkhali, Faizan Kashoo, Danish Iqbal, Showkat Ahmad Ganaie, Ranjay Kumar Choudhary, Kamal Shaker Albenasi, Asma Naseem. (2022). Identification of Mycobacterial RNA Polymerase Inhibitors from the Main Phytochemicals of *Nigella sativa*: An *in-silico* Study. *International Journal of Pharmacology*. 18(5), 1015-1025. (DOI: 10.3923/ijp.2022.1015.1025). **IF. 0.751**
27. Palak Bakshi, Rekha Chouhan, Pooja Sharma, Bilal Ahmad Mir, Sumit Gandhi, MARCO LANDI, Bingsong Zheng, Anket Sharma, Renu Bhardwaj (2021). Amelioration of Chlorpyrifos-induced induced toxicity in *Brassica juncea* L. by combination of 24-epibrassinolide and plant-growth-promoting-rhizobacteria. *Biomolecules*. 11, 877. **IF. 5.5**
28. Jabeena Khazir, Tariq Maqbool, Bilal Ahmad Mir* (2021). A review on Remdesivir: A broad-spectrum antiviral molecule for possible SARS-CoV-2 treatment. *Mini-Reviews in Medicinal Chemistry*. 21. 2544-2555. **IF. 3.8**
29. Deepak Singh, Bilal Ahmad Mir*, Sadhana Babbar, Shashi B Babbar, (2021). Cost-effective *in vitro* multiplication and phenolic profile of an important medicinal orchid, *Satyrium nepalense* D. Don. *Journal of Biologically Active Products from Nature*. 11(2), 162-182. (DOI: 10.1080/22311866.2021.1911681). **IF. 1.2**
30. Latif Ahmad Peer, Mohd Yaqub Bhat, Nusrat Ahmad, Bilal Ahmad Mir* (2021). Floral induction pathways: decision making and determination in plants to flower-A comprehensive review. *Journal of Applied Biology and Biotechnology*. 9(2), 7-17.
31. Mudassir Ahmad Bhat, Sheikh Abdul Shakoore, Poonam Chowdhary, Priya Badgal, Bilal Ahmad Mir, Amarjit Singh Soodan (2021). Taxonomic description and annotation of *Catapodium rigidum* (L.) C.E Hubbard (Poaceae: pooideae, Poaeae, Parapholiinae) from Kashmir Himalayas, India. *Vegetos*. 34(3), 692-699. DOI: 10.1007/s42535-021-00223-z. **IF. 0.5**
32. Deepak Singh, Shashi B Babbar, Bilal Ahmad Mir* (2020). Studies on Pellitorine production and antioxidant activity of explant specific Calli of *Anacyclus pyrethrum*. *Journal of Biologically Active Products from Nature*. 10(3), 183-191. **IF. 1.2**
33. Jabeena Khazir, Bilal Ahmad Mir*, Meeshu Pandita, Lynne Pilcher, Darren Riley, Gousia Chashoo (2020) Design and synthesis of sulphonyl acetamide analogues of quinazoline as anticancer agents. *Medicinal Chemistry Research*. 29(5), 916-925. **IF. 2.6.**
34. Jabeena Khazir, Bilal Ahmad Mir, Gousia Chashoo, Tariq Maqbool, Darren Riley, Lynne Pilcher (2020) Design, synthesis, and anticancer evaluation of acetamide and hydrazine analogues of pyrimidine. *Journal of Heterocyclic Chemistry*. 57(3), 1306-1318. **IF. 2.4**
35. Jabeena Khazir, Bilal Ahmad Mir, Gousia Chashoo, Lynne Pilcher, Darren Riley (2020) Synthesis and Anticancer Activity of *N-9-* and *N-7-*Substituted 1, 2, 3 Triazole Analogues of 2, 6 Di-Substituted Purine. *Medicinal Chemistry Research*. 29(1), 33-45. **IF. 2.6.**
36. Saloni Malik, Bilal Ahmad Mir, Hemant K. Singh, Manju Chaudhary, Soom N. Raina, Shashi B. Babbar. (2018). DNA Barcodes distinguish *Withania somnifera* and *Withania ashwagandha*. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 88(4), 1413-1424. **IF. 0.9**

37. Niraj Tripathi, Divya Srivastava, Bilal Ahmad Mir, Sumit Govil, Maryam Vahedi, Prakash S Bisen. (2018). Metabolic and Biotechnological Approaches to determine therapeutic potential of *Withania somnifera* (L) Dunal: A review. *Phytomedicine* 50, 127-136. DOI: 10.1016/j.phymed.2017.08.020. **IF. 7.9**
38. Pierre Popice Kenmogne NUEMSI, Libert Brice TONFACK, Judith Mbogne TABOULA, Bilal Ahmad MIR, Moise Roger Baleba MBANGA, Godswill Ntsomboh NTSEFONG, Carine Nono TEMEGNE, Emmanuel YOUNBI. (2018). Cultivation systems using vegetation cover improves the sustainable production and nutritional quality of New Rice for Africa in the Tropics. *Rice Science* 25(5), 286-292. **IF. 4.8**
39. Bilal Ahmad Mir, Eshchar Mizrahi, Alexander A Myburg, Don A. Cowan. (2017). *In planta* expression of hyperthermophilic enzymes as a strategy for accelerated lignocellulosic digestion. *Nature Scientific Reports*. 7; 11462. **IF. 4.6**
40. Bilal Ahmad Mir (2017). The role of YIM in shaping my independent scientific career. *India Bioscience* (Journey of YI). Nov 01, 2017. <https://indiabioscience.org/columns/journey-of-a-yi/the-role-of-yim-in-shaping-my-independent-scientific-career>
41. Shannon B Olsson, Pradeep K Bhardwaj, Bilal Ahmad Mir...., R. Uma Shaankar (2017). New Frontiers for Chemical Ecology: Reaffirming a commitment to the Goteborg resolution. *Journal of Chemical Ecology*. 43(1), 2-3. DOI: 10.1007/s10886-016-0813-9. **IF. 2.3**
42. Tabi Mbi Kingsley, Tonfack Libert Brice, Ntsomboh Ntsefong Godswill, Bilal Ahmad Mir, Ngando Ebongue Georges Frank, Ngaha Dieudonne, Njembele Celestine, Kato Samuel Namuene, and Youmbi Emmanuel. (2016). Mature zygotic embryo rescue improves in vitro germination and seedling production in high value oil palm (*Elaeis guineensis* Jacq.) cultivars. *Industrial Crops and Products*, Vol. 94, 445-453. **IF. 6.45**
43. Jabeena Khazir, Bilal Ahmad Mir, Lynne A. Pilcher, Darren L. Riley, Gousia Chashoo, Md. Ataul Islam, Ajit K Saxena, H. M Sampath Kumar. (2016). Design and synthesis of ring C opened analogues of α -santonin as potential anticancer agents. *Medicinal Chemistry Research*. Vol. 25: 2030-2041. **IF. 2.6**
44. Bilal Ahmad Mir, Shabir A Mir, Jabeena Khazir, Libert B Tonfack, Don A. Cowan, Dhiraj Vyas, Sushma Koul (2015). Cold stress affects antioxidative response and accumulation of medicinally important withanolides in *Withania somnifera*. *Industrial Crops and Products* Vol. 74, 1008-1016. **IF. 6.45**
45. Jabeena Khazir, Darren L. Riley, Gousia Chashoo, Bilal Ahmad Mir, Dave Liles, Ataul Islam, Shashank K. Singh, Ram A Vishwakarma, Lynne A. Pilcher. (2015). Design, synthesis and anticancer activity of Micheal-type thiol adducts of α -santonin analogue with exocyclic methylene. *European Journal of Medicinal Chemistry*. Vol. 101, 769-779. **IF. 6.7**
46. Bilal Ahmad Mir, Ritesh Mewalal, Eshchar Mizrahi, Alexander A Myburg, Don A. Cowan. (2014). Recombinant hyperthermophilic enzyme expression in plants: a novel approach for lignocellulose digestion. *Trends in Biotechnology* Vol. 32 (5), 281-289. **IF. 21.942**
47. Bilal Ahmad Mir*, Jabeena Khazir, Khalid R Hakeem, Arun Kumar, Sushma Koul. (2014). Withanolides array of *Withania ashwagandha* sp. novo populations from India. *Industrial crops and Products*. Vol. 59, 9-13. **IF. 6.45**
48. Bilal Ahmad Mir*, SA Mir, Sushma Koul. (2014). In vitro propagation and withaferin A production in *Withania ashwagandha*: a rare medicinal plant of India. *Physiology and Molecular Biology of Plants* Vol. 20(3), 357-364. **IF. 3.5.**
49. Jabeena Khazir, Bilal Ahmad Mir*, Lynne Pilcher, Darren Riley. (2014). Role of plants in anticancer drug discovery. *Phytochemistry letters* Vol. 7, 173-181. **IF. 1.87**
50. Bilal Ahmad Mir*, Jabeena Khazir, Khalid R Rehman, Sushma Koul, Don A Cowan. (2014). Enhanced production of withaferin A in shoot cultures of *Withania somnifera* (L) Dunal. *Journal of Plant Biochemistry and Biotechnology* Vol. 23(4), 430-434. (DOI: 10.1007/s13562-014-0264-8). **IF. 1.9**
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2. **Bilal Ahmad Mir** (2023). Recent advances in lignocellulosic biofuel production using plant biotechnology. *Springer International Publishing* (book proposal accepted for publication).
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1. Latif Ahmad Peer, **Bilal Ahmad Mir**, Tariq Bashir Rather (2025). Gene Editing and Biotechnological Approaches for Improving Salt Tolerance in Crops. *In: Swarnendu Roy, Khalid Rehman Hakeem & Piyush Mathur (eds.). Ion Transporters: The clue to salt tolerance and adaptation in plants (CRC Press). In Press.*

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CONFERENCES/SYMPOSIA/SEMINARS/WORKSHOPS/INVITED LECTURES

a) CONFERENCES/WORKSHOPS/SEMINARS ORGANISED:

1. Organizing Secretary of "One Day Seminar on Smart Structures Energy Efficient Economy JK2024" held on October 9, 2024 at Ibn-Khaldon Auditorium, University of Kashmir Organized by North Campus, University of Kashmir, NIT Srinagar and IOT Zakura, University of Kashmir.
2. Organizing Secretary of "Alumni Meet Cum Farewell-2024 of North Campus, University of Kashmir" held on September 27, 2024 at Gandhi Bhawan, University of Kashmir, Hazratbal.
3. Organizing Secretary of National Seminar on "Climate Change and Natural Disasters: Navigating Risks and Resilience" held on June 11, 2024 at North Campus, University of Kashmir, Delina, Baramulla.
4. Convener/Organizing Secretary of "World Environment Day 2024" held on June 5, 2024 at North Campus, University of Kashmir, Delina, Baramulla.
5. Convener/Organizing Secretary of Two Days Capacity Building Programme on "Cultivation, Processing and Marketing of MAPs for North Kashmir" held from March 22-23, 2024 at Department of Botany, North Campus, University of Kashmir, Delina, Baramulla.
6. Organizing Secretary of National Seminar to Celebrate National Science Day 2024 on the "*Indigenous Technologies for Viksit Bharat*" held on February 28, 2024 at North Campus, University of Kashmir, Delina, Baramulla.
7. Worked as Interlocutor of IndiaBioscience YI Huddle: A conversation series for Young Investigators in India (Webinar) on Wednesday (13th December 2023) in collaboration with Dr. Karishma Kaushik (IndiaBioscience, Bangalore) on the theme "Scientist-Founders: Building Industry Collaborations and Partnerships.
8. Lead Organizer/Organizing Secretary of Regional Young Investigators' Meeting-2023 (RYIM-2023) on the Theme "*Igniting Curiosity & Training Young Minds of J&K for Sustainable Tomorrow*" held from September 19-

- 20, 2023 at University of Kashmir of Kashmir, Srinagar.
9. Lead Organizer/Organizing Secretary of Crafting Your Career Workshop (CYC) held on 21st November 2023 during Regional Young Investigators' Meeting-2023 (RYIM-2023) at University of Kashmir, Srinagar.
 10. Convener/Coordinator of National Webinar on "Massive Open Online Courses (MOOCs) Development and Delivery" held at Kargil Campus, University of Ladakh on March 12, 2022.
 11. Convener/Coordinator of National Webinar held on National Science Day on the theme Integrated Approach in Science & Technology for Sustainable Future held at Kargil Campus, University of Ladakh on February 28, 2022.
 12. Coordinator/Organizing Secretary of Science Academies' Three-Day Lecture Workshop on Biodiversity of Kashmir Himalaya from 25-27th July, 2017 held at Satellite Campus Kargil, University of Kashmir.
 13. Co-Organizing Secretary of National Conference on Recent advances and innovations in Artificial Intelligence, Machine learning and Deep learning held from October 3-5, 2019 at Satellite Campus Kargil, University of Kashmir.
 14. Organizing Secretary of Annual Day cum Seminar held on November 4, 2018 at Satellite Campus Kargil, University of Kashmir.

b) INVITED/LEAD LECTURE/SESSION CHAIRED IN CONFERENCES/ SYMPOSIA/ SEMINARS/WORKSHOPS:

1. Delivered a Keynote lecture on "*AI in Plant Systematics & Biodiversity Conservation*" on 20th February 2025 during one week **International Workshop on "Integration of AI and Machine Learning in Plant Systematics and Biodiversity Conservation"** held from 17-21 February 2025 at Department of Botany, Central University of Jammu, Jammu
2. Delivered an invited lecture at Department of Botany, BGSBU, Rajauri on July 13, 2024.
3. Delivered an invited lecture during National Seminar on "Climate Change and Natural Disasters: Navigating Risks and Resilience" held on June 11, 2024 at North Campus, University of Kashmir, Delina, Baramulla.
4. Delivered an invited lecture during "World Environment Day 2024" held on June 5, 2024 at North Campus, University of Kashmir, Delina, Baramulla.
5. Delivered an invited lecture during 2-day Capacity Building Programme on "Cultivation, Processing and Marketing of MAPs for North Kashmir" held from March 22-23, 2024 at Department of Botany, North Campus, University of Kashmir, Delina, Baramulla.
6. Delivered an invited lecture on "Diversity and Conservation of Medicinal Plants of North Kashmir" during National Seminar to Celebrate National Science Day 2024 on the "*Indigenous Technologies for Viksit Bharat*" held on February 28, 2024 at North Campus, University of Kashmir, Delina, Baramulla.
7. Delivered a Keynote lecture on "Understanding Adaptation of *Artemisia brevifolia* at High Altitudes" in International Conference on Role of Science & Technology in Sustainable Development on October 13, 2023 organized by HIM Science Congress Association in Banikhet, Dalhousie, Himachal Pradesh from October 13-14, 2023.
8. Delivered a talk on "*Challenges faced by Young Investigators in Science*" during Regional Young Investigators' Meeting-2023 (RYIM-2023) organized by University of Kashmir, Srinagar in collaboration with IndiaBioscience from September 19-21, 2023.
9. Chaired a session on Young Investigators during Regional Young Investigators' Meeting-2023 (RYIM-2023) organized by University of Kashmir, Srinagar in collaboration with IndiaBioscience from September 19-21, 2023.
10. Delivered an invited talk on "Pharmacologically active withanolides and Biotechnological interventions in *Withania somnifera*-a high value medicinal plant" in National Conference on Academia-Industry Interface for Promoting Entrepreneurship in Medicinal and Aromatic Plants [PEMAP-2023] held from 24th to 25th August, 2023 organized by Department of Botany, Central University of Jammu, India in collaboration with AYUSH.
11. Delivered an invited lecture on "Metagenomics" on 16th February, 2023 in a Hands-on-training & Workshop on Basic Techniques in Clinical Microbiology organized under Skill Development Programme by Infectious Disease Division at CSIR-IIIM, Jammu from 13-17, February 2023.
12. Delivered an invited talk on "Investigating the phytochemical plasticity of *Artemisia brevifolia* Wall ex Dc (wormseed) across elevational gradients of Ladakh region of Western Himalaya" in International Conference on Emerging Trends in Plant & Environment Sciences on February 2-4, 2023. Organized by Department of Botany, University of Rajasthan, Jaipur, India in collaboration with SPR & International Forum for Botanists.
13. Delivered an invited talk on Role of Molecular Markers in Plant Taxonomic Studies in National Webinar on "Changing paradigms in Plant Taxonomy" held on January 6, 2022 at Central University of Jammu (Department of Botany).
14. Delivered an invited talk on Artificial Intelligence and Plant Sciences in National Conference on "Recent Advances in Artificial Intelligence, Machine learning and Deep learning" held from October 3-5, 2019 at Satellite Campus Kargil, University of Kashmir.
15. Delivered an invited talk on *Withania somnifera*: biology, pharmacology and biosynthesis of withanolides in National Symposium on Current Interventions to Plants and Microbes for Environmental & Agricultural Sustainability held at Guru Nanak Dev University Amritsar from March 6-8, 2019.
16. Chaired a session (Plant Secondary Metabolites) and delivered an invited talk on Plant Secondary Metabolites: From Biosynthesis to Biological Activity in National Symposium on Frontiers in Chemical Sciences (FICS)-2017 organized by Govt. Degree College Sopore, J&K, India from 4-5th November 2017.

17. Delivered an Invited lecture on "Second generation biofuel from lignocellulosic plant Biomass" in National Seminar on Himalayan Biodiversity: Characterization and Bioprospection for Sustainable Utilization Organized by University of Kashmir, Srinagar from 18-19th September 2017.
18. Delivered a Lead Lecture on Conservation and Diversity of Medicinal *Withania somnifera* during Science Academies' Lecture Workshop on Biodiversity of Kashmir Himalaya held at Satellite Campus Kargil, University of Kashmir from 25-27th July, 2017.
19. Delivered an Invited Lecture on Indian ginseng (*Withania somnifera*): A high value medicinal plant at Molecular Biology Training program held on May 29, 2017 at the Plant Molecular Biology Department of the Agricultural Institute in Martonvásár, Hungary.

c) PRESENTED A PAPER IN CONFERENCES/SYMPOSIA/SEMINARS

1. Oral presentation of a paper titled 'Altitudinal gradient drives significant changes in the microbiome, specialized metabolites (VOCs & Phenolic compounds) and eco-physiological properties of *Artemisia brevifolia*: a case study from Cold Desert (Ladakh) region of Western Himalaya.' at *Young Scientists Conference (YSC) during India International Science Festival-2023 (IISF-2022) held from 17-20 January 2024 at DBT THSTI-RCB Campus, Faridabad, Haryana, India* Organized by Ministry of Science & Technology, Govt. of India in collaboration with DBT, MoEF and CSIR (Abstract Bo. ES/YSC-10125).
2. Oral presentation of a paper titled "Understanding the dynamics of VOCs, Phenolic Compounds and Rhizomicrobiome in *Artemisia brevifolia*" across altitudinal gradients of Ladakh at 3-Day National Conference on *Changing Course in Global Environment: Challenges and Solutions* held from 5-7 June, 2023 organized by Department Environmental Sciences, University of Kashmir in collaboration with Zoological Society of India.
3. Presented a paper titled 'Effect of altitude on Volatile Organic and Phenolic compounds and the expression of artemisinin biosynthesis genes of *Artemisia brevifolia* Wall ex Dc (wormseed)' at *Young Scientists Conference (YSC) during India International Science Festival-2022 (IISF-2022)* held from 21-24 January 2023 at MANIT, Bhopal, Madhya Pradesh, India Organized by Ministry of Science & Technology, Govt. of India in collaboration with DBT, MoEF and CSIR.
4. Manzoor Hussain, Satwinder Kaur & Bilal Ahmad Mir. Presented a poster on 'Morphological, Physiological and Biochemical Adaptation of *Artemisia brevifolia* with altitude' in International Conference on Emerging Trends in Plant & Environment Sciences on February 2-4, 2023 Organized by Department of Botany, University of Rajasthan, Jaipur, India in collaboration with SPR & International Forum for Botanists.
5. Manzoor Hussain, Satwinder Kaur & Bilal Ahmad Mir. Presented oral presentation on 'Ethnomedicinal importance and phytochemical analysis of *Artemisia brevifolia* Wall.ex. DC from various altitudes in the Ladakh region of the Western Himalaya' at National Conference on Phytomedicine (NCPM 2023) Organized by Department of Botany, Bharathiar University, Coimbatore, India on 5-6th January 2023. (Awarded with BEST PRESENTATION AWARD).
6. Mohd Ibrahim, Renu Bharadwaj & Bilal Ahmad Mir. Presented oral presentation on 'Morphochemical variations in medicinally important *Aconitum heterophyllum* growing in Himalayan region' at National Conference on Phytomedicine (NCPM 2023) Organized by Department of Botany, Bharathiar University, Coimbatore, India on 5-6th January 2023.
7. Presented a paper titled "Effect of Elevation on Defence Compounds and Adaptation in *Artemisia brevifolia*: Evidence from studies of Cold Desert Ladakh region of Western Himalaya" at *National Conference on Recent Innovations, Trends and Challenges in Plant Science and Research (NCRITCPSR)* on 25th March 2022 held in Virudhunagar, Madurai, Tamil Nadu during March 25-26, 2022. (Got Best Oral Presentation Award). Page/Chapter No. 3 (ISBN: 978-81-951746-0-7).
8. Manzoor Hussain, Satwinderjeet Kaur & Bilal Ahmad Mir. Presented a paper titled "The role of phytochemicals in adaptation of *Artemisia brevifolia* in Ladakh region of the Western Himalaya" at *National Conference on Recent Innovations, Trends and Challenges in Plant Science and Research (NCRITCPSR)* on 25th March 2022 held in Madurai, Tamil Nadu during March 25-26, 2022. Page 27/Chapter No. 11 (ISBN: 9788195174607).
9. Poonam Chowdhary, Priya Badgal, Mudassir Ahmad Bhat, Amarjit Singh Soodan, Bilal Ahmad Mir. Presented a paper titled "Physico-chemical characterization of phytolith structures of the grass species *Lolium perenne* L. (Poaceae)" at *National Conference on Recent Innovations, Trends and Challenges in Plant Science and Research (NCRITCPSR)* held in Virudhunagar, Madurai, Tamil Nadu during March 25-26, 2022. Page 49/Chapter No. 17 (ISBN: 978-81-951746-0-7)
10. Presented a paper titled Dynamics of bioactive withanolides in selected genotypes of Ashwagandha at *Young Scientists Conference (YSC) during India International Science Festival-2020 (IISF-2020)* held from 22-24 December 2020 Organized by Ministry of Science & Technology/Health and Family Welfare, Govt. of India in collaboration with VIBHA and CSIR.
11. Presented a paper titled Studies on *Withania somnifera*: a wonder Medicinal Plant in One Day Online National Conference on Biodiversity Conservation and Sustainable Future (BCSF-2020) held on 6th June 2020 & organized by Govt. SAM College Budgam and Degree College Pulwama, J&K, India.
12. Presented a paper titled Engineering plants for advanced biofuels at Young Investigators Meeting-2019 held at Guwahati, Assam, INDIA from March 03-06, 2019 as Young Investigator. (Young Investigators Abstracts Book Page. No. 86 abstract No. Y06).

13. Palak Bakshi, Pooja Sharma, Mohd Ibrahim, Arun Dev Singh, Bilal Ahmad Mir, Renu Bhardwaj. Detoxification of organophosphorous pesticide in *B. juncea* L. using microbial consortia and plant growth regulator. National Symposium on Current Interventions to Plants and Microbes for Environmental & Agricultural Sustainability. (March 6-8, 2019).
14. Palak Bakshi, Pooja Sharma, Pardeep Kumar, Bilal Ahmad Mir, Abhishek Walia, Renu Bhardwaj. PGPRs and BRs Assisted Detoxification of Chloropyrifos in *Brassica juncea* L. in National Conference on Plant Sciences: Network in Health and Environment. (October 30-31, 2018).
15. Parminder Kaur, Palak Bakshi, Bilal Ahmad Mir, Renu Bhardwaj. Role of Earthworms in Assisted Phytoremediation of Heavy Metals. National Conference on Plant Sciences: Network in Health and Environment. (October 30-31, 2018)
16. Presented a paper titled "In planta expression of novel recombinant/engineered hyperthermophilic lignocellulose digesting enzymes for improved cellulosic biofuel production" at Young Scientist's Conference in the theme Frontier Areas in Sciences during India International Science Festival (IISF-2018) held at Lucknow from 5-8th October 2018.
17. Presented a paper titled Synthesis and Biological Evaluation of Micheal-Type Thiol Adducts of α -Santonin as Potential Anticancer Agents at Young Scientist's Conference in the theme Make in India (2nd Best Presentation award) during India International Science Festival (IISF-2018) held at Lucknow from 5-8th October 2018.
18. Harpreet Kaur, Palak Bakshi, Bilal Ahmad Mir, Renu Bhardwaj and A.K. Thukral. Brassinosteroids regulated amelioration of heavy metal stress in *B. juncea* L. in National Conference on Recent Trends in Plant Sciences from April 19-20, 2018 Ludhina, Amritsar, India.
19. Palak Bakshi, Ravinder Singh, Kanika Khanna, Pooja Sharma, Bilal Ahmad Mir, Renu Bhardwaj. Crosstalk of phytohormones ameliorates metal toxicity in *Brassica juncea* L. at National Seminar on Emerging Trends in Plant and Environmental Sciences (March 29-30, 2018)
20. Presented a paper titled New Horizons of Biological Sciences at National Seminar on "National Development through Science and Technology Organized by University of Kashmir, Srinagar from 25-26th September 2017.
21. Presented (oral) a paper in Two Day National Inter-disciplinary conference, SSD-2016 on the theme Science for sustainable development organized from 24-26 February 2017 at Sri Pratap College, Srinagar, J&K.
22. Presented a paper titled Plants as green bioreactors for environment friendly energy source at National Seminar on Environmental Pollution: join the Race to make the world a better place held at University of Kashmir from 4-5th June, 2016.
23. Jasmine Martens Eloy Ferreras, Bilal Ahmad Mir, Don Cowan. In planta expression of Antarctic bacterial stress-response protein. 2nd Annual DuPont Plant Breeding Symposium, 29th September 2015, University of Pretoria, South Africa.
24. Presented (Oral) a paper titled Lignocellulosic biofuels: challenges and prospects at National Science conference on Recent Research trends in Chemical and Environmental Sciences held at SP College, Srinagar from 18-19th August 2015.
25. Presented a paper titled Heterologous expression of engineered hyperthermophilic lignocellulose digesting enzymes: a novel approach for sustainable cellulosic biofuels at Young Investigators Meeting-2015, Srinagar, J&K, INDIA from 27-31 March, 2015 (poster 6, page 43).
26. Presented a Paper titled *In-planta* expression of recombinant hyperthermophilic β -1,4-endoglucanase and xylanase genes at *international conference on Bioenergy 2014, Helsinki, Finland, 15-18th September, 2014 (Proceedings, Page 181).*
27. Presented a paper titled Functional expression of recombinant endoglucanase and endoxylanase in *Arabidopsis thaliana*. *Genomics Research Institute Seminar Day, University of Pretoria, Pretoria, South Africa, 31st October, 2014*
28. Presented a paper titled Heterologous expression of recombinant thermophilic enzymes. *International conference on Functional Metagenomic-2013, Zebra Lodge, Pretoria, South Africa, 2-5 June, 2013.*
29. Abdul Haleem, Bilal Ahmad Mir, Sushma Koul. Phytochemical variability of Ashwagandha germplasm from India. *National Conference on Medicinal Plants, Islamia College, University of Kashmir, Srinagar, India, 14-15 March, 2012.*
30. Bilal Ahmad Mir, A.S. Soodan, S. Koul. *International Conference on Environment and BioScience 2011-ICEBS held at Cairo, Egypt from 21-23 October, 2011.*
31. Bilal Ahmad Mir, Sushma Koul, Arun Kumar, MK Koul. Hybridization between two elite accessions of *withania somnifera* (solanaceae). *IX International Symposium on Plant Biotechnology, Santa Clara, Villa Clara, Cuba, 20-22 April, 2010.*
32. Bilal Ahmad Mir, Sushma Koul, Arun Kumar, MK Koul, SN Raina. New species status to *Withania ashwagandha* (Solanaceae) – Biosystematics considerations. *9th International Conference on Plant Molecular Biology held at St. Louis, Missouri, USA, 25-30 October, 2009.*
33. Presented a paper titled Distinctive features of wild and cultivated accessions of *Withania somnifera*. *96th Indian Science Congress, NEHU Shillong, Meghalaya, organized by DST, India, 3-7 January, 2009. (Best poster presentation award)*
34. Presented an invited lecture on Inter-chemotypic hybridization for elite genotype designing in *Withania somnifera* (L) Dunal. *Biodiversity: present trends and future challenges, Department of Botany, University of Kashmir, India, 2009.*

35. Presented a paper titled Withanolide production in two elite accessions by *in vitro* cultures of *Withania somnifera* (L) Dunal. *National Seminar on Environment and Sustainable Development, Department of Botanical and Environmental Sciences, Guru Nanak Dev University, Amritsar Punjab, India, 3-4 November, 2009.*
36. Presented a paper titled Assessment of genetic diversity in *Withania somnifera* (L.) Dunal using AFLP and RAPD markers. *Asian Symposium on Medicinal Plants, Spices and other natural products (ASOMPS XIII – 2008) Indian Institute of Chemical Technology (IICT), Hyderabad, INDIA 3-6th November, 2008.*
37. Presented a paper titled Response of *Mentha longifolia* var. *incana* (L.) Hudson [RRL (J) ML4] to bioinoculants. *3rd J & K Science Congress, University of Jammu, Jammu, India, 26-28 February, 2008.*
38. Presented a paper titled Effect of VAM of Forest tree Seedlings. *3rd J & K Science Congress, University of Jammu, Jammu, India, 26-28 February, 2008.*

d) WORKSHOPS/SYMPOSIA/SEMINARS ATTENDED

1. Attended "Science Academies Lecture Workshop on "Himalayan Mountains and their Life" held from May 8-10, 2024, organized by Department of Botany, University of Kashmir, Srinagar sponsored by Joint Education Panel, Indian Academy of Sciences, Bangalore, India.
2. Attended One Day Workshop on 'Gender Parity for Ensuring Quality Work Culture in HEI's' on 27th December-2023 organized by DIQA, University of Kashmir.
3. Attended One Day Workshop on "Authorship and Manuscript Writing: Techniques and Practices for Quality Publications" organized by DIQA, University of Kashmir on 22nd December-2023 at Gandhi Bhawan, University of Kashmir.
4. Attended one day workshop on "Intellectual Property Rights (IPR)-Patent filling" organized by DIQA, in collaboration with IPR Cell, University of Kashmir, Srinagar on November 23, 2023.
5. Attended workshop on "Understanding quality benchmarks for Academic and Research" organized by DIQA, University of Kashmir, Srinagar on November 8, 2023.
1. Attended one-week FDP on 'Genome Engineering & Technology/Application of CRISPR-Cas Gene Editing Tool' at Maulana Abul Kalam Azad University of Technology, West Bengal and AICTE from 7th February 2022 to 11th February 2022.
2. Attended UGC Sponsored "Webinar on MOOCs Development and Delivery" held by HRDC, University of Kashmir on October 30, 2021.
3. Attended Webinar on "How to Read Scientific Literature" held by Department of Bioresources, University of Kashmir in collaboration with NCCS and ISER, Pune and MANAV Human Atlas Initiative on September 20, 2021.
4. Attended *National Conference on Climate Change as well International Quiz competition* held by Department of Botany, Central University of Punjab, Bathinda, India on June 05, 2021.
5. Participated two-day National conference on "Diagnosis, Management and Vaccination for COVID 10" organized by IQAC of AMET in collaboration with Department of Marine Biotechnology, AMET Deemed to be University and Young Academy of India held from May 11-13, 2021.
6. Attended One-week Short Term Programme on 'Intellectual Property Rights' at UGC-Human Resource Development Centre of Guahati University, Guwahati from 1st February 2021 to 7th February 2021.
7. Attended a session on Online Supervision of Scientific Research during the Pandemic Organized by Discussion Forum for Online Teaching (DFOT) on 8th November 2020.
8. Participated in Science Academies Science Leadership Workshop organized by Central University of Punjab, Bathinda, India from June 22-28, 2021.
9. Participated in COVID-19 Awareness quiz conducted by Amity Institute of Biotechnology, Amity University Mumbai on 31st May 2020 and successfully qualified the quiz with a score of 80% (Online quiz).
10. Participated in Severe Acute Respiratory Infection (SARI) Treatment Facility Design conducted by World Health Organization under Health Emergencies Program on 26th April 2020.
11. Attended Regional-Young Investigators Meeting-2019 held at NIPGR, New Delhi, INDIA from 6-7 August 2019 as Young Investigator.
12. Invited to attend Mission Innovation's International Conference on Sustainable Biofuels -2018" ICSB2018 organized by Department of Biotechnology, Ministry of Science & Technology, Government of India and ICGB, New Delhi from 26-27th February, 2018.
13. Attended National Training Workshop on Plant Taxonomy: Principles and Practices from 27th to 29th March 2017 organized by Centre for Biodiversity and Taxonomy, Department of Botany, University of Kashmir.
14. Invited to attend the First Indian Chemical Ecology Workshop held at National Centre for Biological Sciences (NCBS-TIFR), Bangalore from 10-13th September, 2016. The outcome of the vision statement was published as a guest editorial in *Journal of Chemical Ecology*.
15. Attended joint South African Bioinformatics Society (SABIS) & South African Genetics Society (SAGS) conference, Kwalata Reserve, Pretoria, South Africa, 23-26 September, 2014.
16. Attended a work shop on Microsatellites at University of Pretoria, Pretoria, South Africa from 9-10th April, 2013.
17. Attended lecture series of Nobel Laureate "Dr. David Baltimore" (New Avenues to health) held at New Delhion January 14, 2008.
18. Attended National meet for Biodiversity Studies-Road Map held at Center for Biodiversity Studies, Baba Ghulam Shah Badshah University, Rajouri, INDIA on 18th October, 2008.

19. Attended two days Training Workshop on *Existing Tools and Related Mapping Softwares in Geological, Seismological, and remote sensing and GIS applications*, Department of Geology, University of Delhi, 6-7 December, 2007.
20. Attended one-day seminar on *Recent Advances in Environmental Sciences*, Malegaon, Maharashtra, India on 28th January, 2006.

TRAINING/ORIENTATION/REFRESHER/FDP COURSES ATTENDED

- Attended One-week Short Term Course on "Grant Writing and Fellowships" at Malaviya Mission Teacher Training Centre (UGC-Human Resource Development Centre) of University of Kashmir, Hazratbal, Srinagar from November 12, 2024 to November 20, 2024.
- Attended one week online Short Term Course on "NEP- Orientation and Sensitization Programme" organized by Malaviya Mission Teacher Training Centre (UGC-Human Resource Development Centre) of University of Kashmir, Hazratbal, Srinagar from 01 January to 15 January 2024.
- Attended "Induction-cum-training programme" organized by DIQA, University of Kashmir on August 28, 2023.
- Attended two-week Refresher Course in Information Technology (Interdisciplinary) at Human Resource Development Centre of University of Kashmir from July 18, 2023 to July 31, 2023.
- Attended One-week Faculty Development Programme on Emerging Trends and Challenges in Higher Education organized by University of Ladakh, Ladakh from October 15-21, 2021.
- Attended One-week Faculty Development Programme on Protein-Receptor Binding Chemistry jointly organized by VSCIMB, NSU (Baroda) and NIT (Warangal) from May 17-22, 2021.
- Attended two-week Refresher Course in Sciences at Human Resource Development Centre of University of Kashmir from January 02, 2021 to January 15, 2021.
- Attended One-week online Workshop on Applications of Bioinformatics held from 10-17 December 2020 Organized by Department of Biotechnology, Delhi Technical University, New Delhi.
- Attended One-week Workshop on Research Methodology at Human Resource Development Centre of Jamia Millia Islamia, New Delhi from 17th December 2020 to 23rd December 2020.
- Attended two-week Refresher Course on Human Rights (Interdisciplinary) at Human Resource Development Centre of University of Kashmir from 29th January 2020 to 12th February 2020.
- Attended a 71st General Orientation program (Four week) at Human Resource Development Centre of University of Kashmir from 30 April to 28th May 2016.
- Attended ONE WEEK molecular biological training at the Plant Molecular Biology Department of the Agricultural Institute from 23 to 29 May, 2017 in Martonvásár, Hungary.
- Three-Week training course at NCBS-TIFR, Bangalore on GC-MS and Volatile estimations for Chemical Ecology from 8th Feb. 2017 to 28th Feb 2017.
- Six-week training at ICGEB, New Delhi with Dr. Shams Yazdani on biofuels related enzymes: their cloning and characterization from bacteria and fungi from 24th August 2016 to 3rd October 2016.

e) MEMBERSHIP OF PROFESSIONAL SOCIETIES

1. Fellow & Life member of International Society for Development & Sustainability (Japan) on December 19, 2021 (Membership ID: M23110221).
2. Member of Royal Society of Biology (London, UK) from July 01, 2021 (Membership No. P0142527).
3. Life Member of Society for Plant Research, India from March 03, 2022 (Membership No. SPR-LM-256).
4. Life Member of Indian Science Congress Association, India (Membership No. ID: L41715).
5. Life Member of Asian Phytopathological Society (APS Asia), India from March 20, 2024.

ADMINISTRATIVE/ CORPORATE ASSIGNMENTS

- ✓ Coordinator, Department of Botany, North Campus, University of Kashmir (December 2023- till date).
- ✓ Coordinator, DIQA, University of Kashmir, Srinagar (August 2023- till date).
- ✓ Convener, Central Purchase Committee, North Campus, University of Kashmir.
- ✓ Convener, Central Technical Committee, North Campus, University of Kashmir.
- ✓ Convener, Admission Committee, Department of Botany, North Campus, University of Kashmir.
- ✓ In-Charge Landscape, North Campus, University of Kashmir.
- ✓ Member, Doctoral Research Committee, North Campus, University of Kashmir.
- ✓ Member, Estates Committee, North Campus, University of Kashmir.
- ✓ Member, Campus Development Committee, North Campus, University of Kashmir.
- ✓ Nodal Officer for Vikshit Bharat@2047, North Campus, University of Kashmir.
- ✓ Member, Board of Studies (BOS), Department of Botany, North Campus, University of Kashmir (November 2023- till date)
- ✓ Member, Committee for drafting statutes for Integrated Programmes offered at University of Kashmir.
- ✓ Member, Committee for framework of course curriculum for all Integrated Programmes as per the guidelines of NEP-2020.
- ✓ Member, Transport Committee, North Campus, University of Kashmir.
- ✓ Member, Canteen Committee, North Campus, University of Kashmir.

- ✓ Coordinator, Department of Botany, Kargil Campus, University of Kashmir (November 2017 – December 2020).
- ✓ Examination Coordinator, Department of Botany, Kargil Campus, University of Kashmir (2017 to 2020).
- ✓ Nodal Officer, All India Survey for Higher Education (AISHE) for Kargil Campus, University of Kashmir (2016 – 2020).
- ✓ Nodal Officer, Swachh Bharat Internship Program of MHRD, Kargil Campus, University of Kashmir (2008-2020).
- ✓ In-charge Library, Satellite Campus Kargil, University of Kashmir (2017 to July 2020).
- ✓ Academic Councilor, Department of Botany, Kargil Campus, University of Kashmir (2017 to 2020).
- ✓ Chairman/member of various committees of the Kargil Campus, University of Kashmir viz., Board of Studies, Purchase Committee, Verification Committee, Campus Development Committee, Academic Councilors Committee etc. (2017 to 2020).
- ✓ Convener/member of various committees of the Kargil Campus University of Ladakh viz., Campus Landscaping Advisory Committee, IQAC, Research Committee etc. (2021 to 2022).

RESEARCH INTERESTS & SPECIALIZATION

- ✓ Plant Molecular Biology & Biotechnology.
- ✓ Metabolic Engineering & Plant tissue culture
- ✓ Secondary plant metabolites & Metabolomics.
- ✓ Biofuels Biotechnology & Feedstock improvement
- ✓ Genetic profiling/genetic diversity & molecular markers.
- ✓ Chemical Ecology and Microbial study (recently expanded area).

TEACHING ASSIGNMENTS AT UG/PG LEVEL

1. Cell & Molecular Biology of Plants
2. Plant Physiology, Biochemistry & Metabolism
3. Genetics and Cytogenetics
4. Plant biotechnology, Genetic Engineering & Plant Culture
5. Biology and Diversity of Microorganisms
6. Plant Development & Reproduction

RESEARCH SCHOLARS/ PHD STUDENTS REGISTERED/AWARDED

S. No.	Name of the Student	Title of thesis	Registration Number	Registration Date	Status	Supervisor/ Co-Supervisor
1.	Manzoor Hussain	Effect of altitude gradient on VOCs, phenolic compounds and rhizosphere microbiome of <i>Artemisia brevifolia</i> Wall. Ex DC. Growing in Ladakh region in the Western Himalayas	2018.Ph.D.(BOT).06	04.09.2018	Awarded 19.01.2024	Co-Supervisor
2.	Palak Bakshi	Effects of 24-epibrassinolide & Plant growth promoting rhizobacteria on detoxification of Chlorpyrifos in <i>Brassica juncea</i> L.	2013.BOT/A.11	17.08.2016	Awarded 16.11.2022	Co-Supervisor
3.	Poonam Chowdhary	Physico-chemical Characterization of Phytoliths of Grasses from sub-families Pooideae, Aristoideae and Dantghoniodeae in relation to taxonomy and Ecology	2013.BOT/A.05	14.09.2017	Awarded 17.01.2025	Co-Supervisor
4.	Durukhshan Zehra	Biotechnology and Biofuels	---	July 2024	Ongoing	Supervisor
5.	Tariq Bashir Rather	Understanding antioxidative potential and expression of pathway genes in <i>Artemisia brevifolia</i> Wall. Ex DC.	---	July 2024	Ongoing	Supervisor
6.	Maqsooma Bano	Understanding Phenotypic Plasticity and Podophyllotoxin Accumulation in <i>Podophyllum hexandrum</i> Royle along Altitudinal Gradients of Kargil and Kashmir regions of Trans-Himalaya	---	July 2023	Ongoing	Co-Supervisor

7.	Shahida Bashir	Ethnobotanical Study of South Kashmir region of Jammu & Kashmir	---	July 2024	Ongoing	Supervisor
8.	Zarina Batoool Nilofer	Effect of altitude on morphological, phytochemical and anatomical features of <i>Prangos pabularia</i>	---	July 2024	Ongoing	Supervisor
9.	Shahar Banoo	Exploring antioxidant potential and aconitine and artisine pathway gene expression in <i>Aconitum heterophyllum</i>	---	July 2024	Ongoing	Co-Supervisor

MASTERS DISSERTATIONS SUPERVISED/GUIDED

S. No.	Student Name	Dissertation Title	Registration Number	Status
1.	Cho Cho Ruqaya	<i>Artemisia</i> : An Insight into its pharmacological activities, medicinal profile and Phytochemistry.	UOL-2020/UCK-0015	Dissertation Submitted to University of Ladakh for the award of degree of Masters in Botany on 13.06.2022
2.	Abida Banoo	<i>Aconitum heterophyllum</i> : An Insight into its pharmacological activities, medicinal profile and phytochemistry.	UOL-2020/UCK-0010	-do-
3.	Sonam Angmo	Traditional medicinal plants of cold desert Ladakh used in <i>Sowa-rigpa</i> for the treatment of diseases	UOL-2020/UCK-0007	-do-
4.	Aliya Khatoon	Medicinal flora of Suru Valley, Kargil (Ladakh)	UOL-2020/UCK-0009	-do-
5.	Sudiqqa Banoo	Biochemical profile and biological activities of Seabuckthorn (<i>Hippophae rhamnoides</i> L.)	UOL-2020/UCK-0022	-do-
6.	Hasina Banoo	Conservation, Propagation, Chemical composition and medicinal importance of <i>Podophyllum hexandrum</i> Royale	UOL-2020/UCK-0008	-do-

DESIGN OF CURRICULA & COURSE DEVELOPMENT

TITLE OF THE CONTENT	ROLE	COURSE CREDITS	RELEASE DATE
Framework of the course curriculum for 5-Year Integrated programmes as per the guidelines of NEP-2020	Member of the empowered Committee		19.01.2024
Drafted Statutes and Regulations for Integrated Course	Member of the empowered Committee		10.10.2023
Drafted Regulations for 5-Year Integrated Masters Programme (FYIMP) in Botany	Member of the empowered Committee		05.12.2024
Developed course & curriculum for 1 st & 2 nd Semesters of 5-Year Integrated Programme in Botany	As member of the Board of Studies for Course & Curriculum Development of 5-Year Integrated (B.Sc-M.Sc) Programme in Botany for North Campus, University of Kashmir	16	04-12-2023
Role of medicinal and aromatic plants in health care (Skill Enhancement Course)	As Coordinator of the Department designed and developed syllabus for this 4 credit course for 1 st Semester of 5-Year Integrated Programme in Botany started at North Campus, University of Kashmir		15.12.2023
Mushroom Cultivation (Skill Enhancement Course)	As Coordinator of the Department designed and developed syllabus for this 2 credit course for 2 nd Semester of 5-Year Integrated Programme in Botany started at North Campus, University of Kashmir		15.12.2023
Developed syllabus of Common Entrance Test for Integrated B.Sc. - M.Sc. Botany	As Coordinator of the Department Prepared & Developed Course Curriculum for 5-Year	120	10.06.2023

started at North Campus, University of Kashmir	Integrated Masters Programme (FYIMP) in Botany		
Cell and Molecular Biology of Plants	Designed and Developed Course Curriculum	4+2	15.05.2020
Cytology, Genetics and Cytogenetics	Designed and Developed Course Curriculum	4+2	10.04.2020
Plant Physiology and Metabolism	Designed and Developed Course Curriculum	4+2	15.05.2020
Genetic Engineering & Plant Tissue Culture	Designed and Developed Course Curriculum	4+2	15.05.2020
Plant Resource Utilization and Conservation	Contributed one-fourth to Development of the Curriculum for this course	4	15.05.2020
Biology and Diversity of Microorganisms	Contributed one-fourth to Development of the Curriculum for this course	4	10.04.2020
Pteridophytes & Gymnosperms: Diversity & Evolution	Contributed one-fourth to Development of the Curriculum for this course	4	10.04.2020
Plant Development and Reproduction	Contributed one-fourth to Development of the Curriculum for this course	4	15.05.2020
Algae and Bryophyta diversity and Evolution	Contributed one-fourth to Development of the Curriculum for this course	4	10.04.2020
Plant Breeding and Bio-statistics	Contributed one-fourth to Development of the Curriculum for this course	4	15.05.2020
Plant Resource Utilization and Conservation	Contributed one-fourth to Development of the Curriculum for this course	4	15.05.2020
Overall Course & Curriculum Development of P.G. Botany	Member, Board of PG Studies in Botany		

EDITORIAL BOARD MEMBER

1. Assistant Editor, Vegetos (An International Journal of Plant Research & Biotechnology) Springer, January 2023-2025.
2. Review Editor in Plant Biotechnology (Specialty section of Frontiers in Plant Sciences) w.e.f. July 01, 2022
3. Associate Editorial Board Member of Nanoscience & Nanotechnology-Asia (Bentham Science)
4. Associate Editorial Board Member of Mini-Reviews in Medicinal Chemistry (Bentham Science)
5. Editorial Board Member of Journal of Biologically Active Products from Nature (Taylor and Francis).
6. Asian Phytopathological Society (APSAAsia), India from March 20, 2024.
7. Editor in Chief, Journal of Applied Biology and Biotechnology from March 2018 to December 2020.
8. Editorial Board Member of Journal of Modern Medicinal Chemistry (Synergy Publishers from Feb. 2022).
9. Editorial Board Member of Advances in Biomedicine and Pharmacy.
10. Editorial Board Member of International Journal of Biodiversity & Conservation.
11. Editorial Board Member of Journal of Integrative Medicine.
12. Editorial Board Member of Journal of Herbal Medicine, Beijing, China.
13. Reviewer of research publications of international journals.

PROJECTS IN WHICH I HAVE WORKED DURING PHD & Post-PHD

- ✓ Identification, characterization, engineering and heterologous expression of hyperthermophilic cell wall degrading enzymes and novel Antarctic bacterial stress-response WHy protein.
- ✓ Development of high output suspension cultures of selected medicinal plants as a perennial source of bio-molecules and herbals.
- ✓ Exploratory studies on climate change and adaptation of species complex

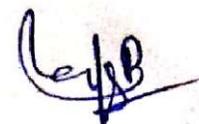
PERSONAL PROFILE

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ACADEMIC REFERENCES

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<p>Dr. Sushma Koul (PhD Supervisor) Ex-Scientist G & Head Biodiversity and Applied Botany Division, CSIR-Indian Institute of Integrative Medicine (CSIR-IIIM) INDIA-180001 Email: koul_sushma@yahoo.com; skoulkhare@gmail.com Cell No. +91-9419131891</p>	<p>Prof. Renu Bhardwaj Director Research Guru Nanak Dev University, Amritsar, India E-mail: renubhardwaj82@gmail.com Cell No. +91-9876214176</p>
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