

# Dr. Bhavya Bhargava

## Address

Pr. Scientist, Floriculture Division,  
Dept. of Agro-technology, CSIR-Institute of Himalayan Bioresource  
Technology (CSIR-IHBT), Post Box No. 6, Palampur, Distt Kangra,  
Himachal Pradesh-176061

Contact: +91-1894-233339 (Ext-318);

e-mail : [bhavya@ihbt.res.in](mailto:bhavya@ihbt.res.in); [bhavyaihbt@gmail.com](mailto:bhavyaihbt@gmail.com);



## Past employment

- Worked as a Teaching Research Personnel in the Department of Floriculture and Landscaping, VCSG College of Horticulture, Uttarakhand University of Horticulture and Forestry, Bharsar, Pauri, Uttarakhand from 03-08-2013 to 31-08-2014
- Worked as a Junior Research Fellow in the Department of Food Science and Technology, Dr Y S Parmar University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh, India under the project "Development of value added processed products from pumpkin (*Cucurbita moschata* L.) and dissemination of technology to the farm women of Himachal Pradesh from 01-04-2013 to 31-07-2013.

## Projects completed and ongoing

Title of the project	Funding Agency	Role	Duration
CSIR-Floriculture Mission-II	CSIR	PI	Ongoing
CRISPR/Cas9 mediated mutagenesis of MLO (Mildew Locus O) genes in gerbera ( <i>Gerbera jamesonii</i> Bolus) to enhance powdery mildew disease resistance	CSIR	Mentor	Ongoing
Gondla Cut-flower cluster	Ministry of MSME	PI	Ongoing
Shansha Cut Flower Cluster	Ministry of MSME	PI	Ongoing
Understanding flowering regulation and underground storage organ (USO) formation in economically important geophytes"	CSIR-NCP	Co-PI	Ongoing
Establishment of Institutional Herbal Garden at CSIR-IHBT, Palampur	National Medicinal Plant Board (NMPB)	Co-PI	Ongoing
Nutrient enrichment of selected edible flowers of Ayurvedic importance through hydroponics and popularizing their cultivation in Himachal Pradesh	Department of Science and Technology (DST)	Mentor	Ongoing
CSIR Integrated Skill Initiative (Phase II)	CSIR	Co-PI	Ongoing
Technical know-how for producing floriculture plants by using facilities at IHBT premises for its commercial scale	Industry	PI	Ongoing
CSIR-Floriculture Mission-I	CSIR	PI	2021-2023
Ex-Situ conservation of rare, endangered, threatened, endemic & economic plant resources of Western Himalayan region through botanical gardens	Ministry of Environment Forest and Climate Change	PI	2018-2021
CSIR Integrated Skill Initiative	CSIR	Co-PI	2020-2023
Establishment of hydroponic facility for production of Lilium and Tulip plants	Industry	Co-PI	
Optimization of aeroponic and hydroponic conditions	CSIR FTT Project	Co-PI	2018-2020

for increasing commercial crop productivity			
Conservation and sustainable resource generation of high altitude bioresources at CSIR-Centre for High Altitude Biology	CSIR-NCP	Co-PI	2017-2020
Introduction, domestication, improvement and cultivation of important plants (AGTEC)	CSIR Network Project	Co-PI	2014-2017
Improvement in Agro-technology and production of planting materials of certain commercially important cut flower crops	CSIR Main Lab Project	PI	2014-2017
Rural Development in the Western Himalayan Region and Adjoining Plains through Transfer of CSIR-IHBT Technologies	CSIR Rural Development Programme	Co-PI	2015-2017
Empowering rural population through dissemination of agro-technology of flower crops in H.P.	State Council for Science, Technology & Environment, H.P.	PI	2016-2018

## Research Papers

- Verma, V., Priti, Thakur, D. *et al.* Dual Role of Meta-topolin in Mediating In Vitro Propagation and Phytochemical Elicitation in *Zephyranthes grandiflora*. *J Plant Growth Regul* (2025). <https://doi.org/10.1007/s00344-025-11712-9>
- Katoch, M., Kapoor, P., Gupta, H., Vashishta, N., Verma, V., Bhardwaj, R., Acharya, A. and Bhargava, B., 2025. Foliar application of melatonin-capped copper nanoparticles improves stem strength and postharvest quality by regulating the lignin biosynthesis genes and physio-chemical profile in *Gerbera jamesonii* L. *Postharvest Biology and Technology*, 222, p.113415.
- Verma, V., Bhargava, B. Small molecules inhibiting EPHEMERAL1 to extend flower longevity by regulating petal senescence. *Plant Cell Rep* 44, 19 (2025). <https://doi.org/10.1007/s00299-024-03403-8>
- Kapoor, P., Mali, S., Verma, V., Katoch, M., Zinta, G. and Bhargava, B., 2024. Genome-wide characterization of melatonin biosynthetic pathway genes in carnation (*Dianthus caryophyllus* L.) and their expression analysis in response to exogenous melatonin. *Scientia Horticulturae*, 338, p.113776.
- Verma, V., Katoch, M., Kapoor, P., Misra, A. and Bhargava, B., 2024. Domestication of ornamental plants: Breeding innovations and molecular breakthroughs to bring wild into limelight. *South African Journal of Botany*, 175, pp.436-452.
- Kamal, S., Rana, A., Devi, R. et al. Stability assessment of selected chrysanthemum (*Dendranthema grandiflora* Tzvelev) hybrids over the years through AMMI and GGE biplot in the mid hills of North-Western Himalayas. *Sci Rep* 14, 14170 (2024). <https://doi.org/10.1038/s41598-024-61994-4>
- Ujala, Sharma, D., Partap, M., Warghat, A.R., **Bhargava, B.\***, 2024. Hydroponic cultivation enhances the morpho-physiological traits and quality flower production in three cultivars (marigold scarlet red, marigold orange, and marigold yellow) of French marigold (*Tagetes patula* L.), *Scientia Horticulturae*, 327 <https://doi.org/10.1016/j.scienta.2023.112803>
- Dutta, M., Sharma, P., Raturi, V., **Bhargava, B.** and Zinta, G., 2024. SarCTAB: an efficient and cost-effective DNA isolation protocol from geophytes. *3 Biotech*, 14(2), pp.1-8.
- Partap, M., Verma, V., Thakur, M. and **Bhargava, B.\***, 2023. Designing of future ornamental crops: a biotechnological driven perspective. *Horticulture Research*, p.uhad192.
- Partap, M., Sharma, D., Deekshith, H.N., Thakur, M., Verma, V. and **Bhargava, B.\***, 2023. Microgreen: A tiny plant with superfood potential. *Journal of Functional Foods*, 107, p.105697.
- Dindhoria, K., Jain, R., Kumar, R., **Bhargava, B.**, Kumar, R., & Kumar, S. (2023). Microbial community structure analysis of hypersaline niches and elucidation of their role in the biogeochemical cycling of nitrogen, sulphur and methane. *Ecological Informatics*, 75, 102023. <https://doi.org/10.1016/j.ecoinf.2023.102023>
- Kumar, V., Kumar, P., **Bhargava, B.**, Sharma, R., Irfan, M. and Chandora, R., 2023. Transcriptomic and Metabolomic Reprogramming to Explore the High-Altitude Adaptation of Medicinal Plants: A

Review. *Journal of Plant Growth Regulation*, pp.1-15.

- Zadokar, A., Negi, S., Kumar, P., **Bhargava, B.**, Sharma, R. and Irfan, M., 2023. Molecular insights into rare earth element (REE)-mediated phytotoxicity and its impact on human health. *Environmental Science and Pollution Research*, pp.1-21.
- Chandel, A., Thakur, M., Rakwal, A., Chauhan, S. and **Bhargava, B.\***, 2023. Exogenous applications of gibberellic acid modulate the growth, flowering and longevity of calla lily. *Heliyon*, 9(5).
- Maurya, A., Sharma, D., Partap, M., Kumar, R. and **Bhargava, B.\***, 2023. Microbially-assisted phytoremediation toward air pollutants: Current trends and future directions. *Environmental Technology & Innovation*, p.103140.
- Goel, K., Kundu, P., Gahlaut, V., Sharma, P., Kumar, A., Thakur, S., Verma, V., **Bhargava, B.**, Chandora, R. and Zinta, G., 2023. Functional divergence of Heat Shock Factors (Hsfs) during heat stress and recovery at the tissue and developmental scales in C4 grain amaranth (*Amaranthus hypochondriacus*). *Frontiers in Plant Science*, 14, p.1151057.
- Kumar, R., Verma, V., Thakur, M., Singh, G. and **Bhargava, B.\***, 2023. A systematic review on mitigation of common indoor air pollutants using plant-based methods: a phytoremediation approach. *Air Quality, Atmosphere & Health*, pp.1-27.
- Thakur, M., Verma, V., Chandel, A., Kumar, R., Sharma, T., Kumar, A., Bhardwaj, S., Kumar, R. and **Bhargava, B.\***, 2023. Lemon grass essential oil improves *Gladiolus grandiflorus* postharvest life by modulating water relations, microbial growth, biochemical activity, and gene expression. *Scientific Reports*, 13(1), p.2630.
- Verma, V., Kumar, A., Partap, M., Thakur, M. and **Bhargava, B.\***, 2023. CRISPR-Cas: A robust technology for enhancing consumer-preferred commercial traits in crops. *Frontiers in Plant Science*, 14, p.1122940.
- Kumari, P., Rana, S., Bhargava, B. and Reddy, S.E., 2023. Diversity, Abundance and Impact of Insect Visitors in Litchi chinensis Production. *Agronomy*, 13(2), p.298.
- Kumar, P., Kumar, P., Verma, V., Irfan, M., Sharma, R. and **Bhargava, B.**, 2023. How plants conquered land: evolution of terrestrial adaptation. *Journal of Evolutionary Biology*, 35(5), pp.5-14.
- Verma, V., Kumar, A., Priti, Seema, Thakur, M. and **Bhargava, B.\***, 2022. Meta-Topolin mediated in vitro propagation in an ornamentally important crop *Iris* × *hollandica* Tub. cv. professor Blaauw and genetic fidelity studies using SCoT markers. *Plant Cell, Tissue and Organ Culture (PCTOC)*, 151(3), pp.681-694.
- Thakur, M., Chandel, A., Guleria, S., Verma, V., Kumar, R., Singh, G., Rakwal, A., Sharma, D. and **Bhargava, B.\***, 2022. Synergistic effect of graphene oxide and silver nanoparticles as biostimulant improves the postharvest life of cut flower bird of paradise (*Strelitzia reginae* L.). *Frontiers in Plant Science*, 13, p.1006168.
- Chandel, A., Thakur, M., Singh, G., Dogra, R., Bajad, A., Soni, V. and **Bhargava, B.\***, 2023. Flower regulation in floriculture: an agronomic concept and commercial use. *Journal of Plant Growth Regulation*, 42(4), pp.2136-2161.
- Sharma, M., Kumar, P., Verma, V., Sharma, R., **Bhargava, B.** and Irfan, M., 2022. Understanding plant stress memory response for abiotic stress resilience: Molecular insights and prospects. *Plant Physiology and Biochemistry*, 179, pp.10-24.
- Chauhan, S., Manisha, **Bhargava, B.**, Kandpal, K.C. and Kumar, A., 2022. Analyzing preferred indoor ornamental potted plants for their air pollution tolerance ability. *Pol. J. Environ. Stud*, 31, pp.2019-2027.
- Kumar, A., Chauhan, S., Rattan, S., Warghat, A.R., Kumar, D. and **Bhargava, B.\***, 2022. In vitro propagation and phyto-chemical assessment of *Cymbidium aloifolium* (L.) Sw.: An orchid of pharma-horticultural importance. *South African Journal of Botany*, 144, pp.261-269.
- Kumari, P. and **Bhargava, B.**, 2021. Phytochemicals from edible flowers: Opening a new arena for healthy lifestyle. *Journal of Functional Foods*, 78, p.104375.
- Kashyap, U., Chandel, A., Sharma, D., Bhardwaj, S. and **Bhargava, B.\***, 2021. Propagation of *Jasminum parkeri*: A critically endangered wild ornamental woody shrub from Western Himalaya. *Agronomy*, 11(2), p.331.
- **Bhargava, B.\***, Malhotra, S., Chandel, A., Rakwal, A., Kashwap, R.R. and Kumar, S., 2021. Mitigation of indoor air pollutants using Areca palm potted plants in real-life settings. *Environmental Science and Pollution Research*, 28, pp.8898-8906.
- Bahuguna, S., Anchal, S., Chandel, A., Devi, M., **Bhargava, B.** and Kumar, A., 2020. Automated flower

enumeration, a felicitous method developed for the floriculture industries. *Flower and Ornamental Plants*, 5(1), pp.51-60.

- Sharma, P., Gupta, Y.C., Dhiman, S.R., Sharma, P. and **Bhargava, B.**, 2017. Effect of different planting dates and climatic conditions on growth, flowering and seed production of candytuft (*Iberis amara*). *Indian Journal of Agricultural Sciences*, 87(6), pp.792-5.
- **Bhargava, B.\***, Gupta, Y.C. and Sharma, P., 2016. Performance of Snapdragon (*Antirrhinum majus* L.) Under Protected and Open Field Conditions in Himachal Pradesh. *Proceedings of the National Academy of Sciences, India Section B: Biological Sciences*, 86, pp.65-69.
- Sharma, P., Gupta, Y.C., Dhiman, S.R., Sharma, P. and **Bhargava, B.**, 2016. Variation in growth, flowering and seed yield of satin flower (*Godetia grandiflora*) planted on different dates. *Indian Journal of Agricultural Sciences*, 86(2).
- **Bhavya B\***, Gupta YC & Sharma P (2016). Performance of Snapdragon (*Antirrhinum majus* L.) Under Protected and Open Field Conditions in Himachal Pradesh *Proc. Natl. Acad. Sci., India. Sect B Biol Sci* 86(1): 65–69.
- Sharma, P., Gupta, Y.C., Dhiman, S.R., Sharma, P. and **Bhargava, B.**, 2015. Effect of Planting Time on Growth, Flowering and Seed Yield in *Dianthus barbatus* L. *National Academy Science Letters*, 38, pp.189-192.
- **Bhargava, B.\***, Gupta, Y.C., Dhiman, S.R. and Sharma, P., 2015. Effect of seed priming on germination, growth and flowering of snapdragon (*Antirrhinum majus* L.). *National Academy Science Letters*, 38, pp.81-85.
- Bisht, S., Pandey, P., **Bhargava, B.**, Sharma, S., Kumar, V. and Sharma, K.D., 2015. Bioremediation of polyaromatic hydrocarbons (PAHs) using rhizosphere technology. *Brazilian Journal of Microbiology*, 46, pp.7-21.
- Powar, V., **Bhargava, B.** and Vikas, G., 2014. Study on waxing of cut foliage post-harvest life of few ornamental species. *Journal of Applied and Natural Science*, 6(2), pp.619-624.
- Priyanka Sharma, Gupta YC, Dhiman SR, Puja Sharma, **Bhavya Bhargava**. Effect of planting dates on growth, flowering and seed production of paper flower (*Helichrysum bracteatum* Andr.) under mid hills of Himachal Pradesh. *Ind. J App. Res.* 2013; 3(11):1-3.
- **Bhargava, B.\***, Dilta BS, Gupta YC, Dhiman SR, Modgil M (2013) Studies on micropropagation of gerbera (*Gerbera jamesonii* Bolus). *Indian J Appl Res* 3(11):8–11

#### Contributions to the society

- Contributed as nodal scientist from CSIR-IHBT in CSIR-Floriculture Mission extended 1005 ha area under floricultural crops and distributed 450 lakh planting material of 16 crops viz., marigold, gladiolus, chrysanthemum, gerbera, cut-rose, carnation, liliun, tuberose, loose rose, calla lily, Eustoma, sunflower, limonium, gypsophila, tulip and orchids to 3500 nos. beneficiaries with expected net returns of Rs. 82.32 crs to farmers.
- Conducted 108 nos. of training/ awareness programmes under CSIR Floriculture Mission and around 4295 nos. farmers/ human resource trained
- Established 300 nos. of floriculture gardens in schools and colleges through which around 35,000 students get acquainted on garden activities under CSIR Floriculture Mission
- Established 30 nos. of vertical gardening units at various public places like municipal corporations, government offices and airport etc.
- Established Himachal Pradesh's first "Tulip Garden" at CSIR-IHBT, Palampur, HP.
- Around 700 Memorandum of Understanding (MoU's)/ Material Transfer Agreements (MTA's) signed with farmers/ cooperative societies/ Trusts and government departments and foreign companies under CSIR Floriculture Mission.

#### Book

- **Bhargava, B.**, Kumar, P., and Verma, V.(eds.), 2024. Ornamental Horticulture: Latest Cultivation Practices and Breeding Technologies (ISBN: 978-981-97-4027-7), Springer Publication



## Book Chapters

- Partap, M., Sharma, D., Deekshith, H.N., Chandel, A., Thakur, M. and **Bhargava, B.**, 2023. Phytoremediation toward Air Pollutants: Latest Status and Current Developments.
- Verma, V., Kumar, A., Verma, J., Priti and **Bhargava, B.**, 2022. Conventional and Molecular Interventions for Biotic Stress Resistance in Floricultural Crops. In *Genomic Designing for Biotic Stress Resistant Technical Crops* (pp. 227-246). Cham: Springer International Publishing. Springer Nature Switzerland AG ([https://doi.org/10.1007/978-3-031-09293-0\\_6](https://doi.org/10.1007/978-3-031-09293-0_6))
- Verma, V., Kumar, A., Verma, J., Sharma, P., Priti, Thakur, M. and **Bhargava, B.**, 2022. Conventional and Molecular Interventions for Abiotic Stress Resistance in Floricultural Crops. In *Genomic Designing for Abiotic Stress Resistant Technical Crops* (pp. 99-118). Cham: Springer International Publishing. Springer Nature Switzerland AG ([https://doi.org/10.1007/978-3-031-09293-0\\_6](https://doi.org/10.1007/978-3-031-09293-0_6))
- Dhiman, M.R., Sharma, P., **Bhargava, B.** (2021). *Lilium*: Conservation, Characterization, and Evaluation. In: Datta, S.K., Gupta, Y.C. (eds) Floriculture and Ornamental Plants. Handbooks of Crop Diversity: Conservation and Use of Plant Genetic Resources. Springer, Singapore. [https://doi.org/10.1007/978-981-15-1554-5\\_6-1](https://doi.org/10.1007/978-981-15-1554-5_6-1)
- Sharma, P., **Bhargava, B.**, Sangmesh, P., Ujala (2021). Agro-Biodiversity: Conservation and Use of Plant Genetic Resources. In: Datta, S.K., Gupta, Y.C. (eds) Floriculture and Ornamental Plants. Handbooks of Crop Diversity: Conservation and Use of Plant Genetic Resources. Springer, Singapore. [https://doi.org/10.1007/978-981-15-1554-5\\_9-1](https://doi.org/10.1007/978-981-15-1554-5_9-1)
- **Bhavya Bhargava**, Poonam Kumari, Anjali Chandel. 2021. Cyclamen (*Cyclamen L.*). In: R. K. Roy & B.K.Banerji (eds) Bulbous and Rhizomatous Plants. Scientific publishers (ISBN: 9789390 495061) 45-81
- Poonam Kumari, **Bhavya Bhargava**. 2021. *Lilium* (*Lilium sp.*). In: R. K. Roy & B.K.Banerji (eds) Bulbous and Rhizomatous Plants. Scientific publishers (ISBN: 9789390 495061) 135-138
- **Bhargava Bhavya**. Floriculture (Chapter 8). 2017. MCQs on AGRICULTURAL SCIENCES- A Complete Book for JRF/ SRF/ UPSC/ SAUs/ Banking Examinations edited by Ghan Shyam Abrol, Ashutosh Singh and Mukesh Srivastava. pp 123-136
- Gupta Y C, Dhiman S R, Sharma P and **Bhargava B**. 2016. Protected cultivation of rose in naturally ventilated polyhouse. The Rose Annual. Bengal Rose Society. pp 66-70.
- Gupta YC, **Bhargava B** and Sharma P, Cacti and succulents. 2013. *Ornamental Plants for Gardening*. Scientific Publishers, pp 62–77 (of 306 pp).
- Gupta Y C, **Bhargava Bhavya** and Sharma Priyanka. 2012. Antirrhinum. In: Production Technology of Traditional and Cut Flowers and most commonly used ornamentals edited by R L Misra.
- **Bhargava Bhavya**, Gupta Y C and Sharma Priyanka. 2012. Edible dyes and natural colorants from ornamentals. In: Production Technology of Traditional and Cut Flowers and most commonly used ornamentals edited by R L Misra.
- Sharma Priyanka, Gupta Y C and **Bhargava Bhavya**. 2012. Use of annuals in the landscape. In: Production Technology of Traditional and Cut Flowers and most commonly used ornamentals edited by R L Misra.
- Sharma Priyanka, Gupta, Y C and **Bhargava Bhavya**. 2012. Carnivorous plants. In: Production Technology of Traditional and Cut Flowers and most commonly used ornamentals edited by R L Misra.
- Gupta Y C, Laishram, Nomita, Sharma Priyanka and **Bhargava Bhavya**. 2012. Gladiolus. In: Production Technology of Traditional and Cut Flowers and most commonly used ornamentals edited by R L Misra.
- Gupta Y C, **Bhargava Bhavya** and Sharma Priyanka. 2011. Commonly occurring problems in roses. In: The Rose annual, Bengal Rose Society, Kolkata.

## Institutional books

- भव्य भार्गव, पूनम कुमारी, विकास सोनी, सनतसुजात सिंह, अशोक कुमार 2022 व्यवसायिक पुष्पीय फसलें: प्रशिक्षण पुस्तिका' पेज नंबर 1-73 सीएसआईआर-आईएचबीटी, पालमपुर, (हि.प्र.)
- Kumar, V., Parkash, O, Bhargava, B., Uniyal, S.K. 2020. A pictorial guide to the trees at CSIR-IHBT. CSIR-IHBT, Palampur, H.P.
- Bhargava, B., Kumari, P. 2020. Prakriti Kunj. Vol 1, pp. 1-47 CSIR-IHBT, Palampur, H.P.
- Bhargava, B., Kumari P., Singh, S.S., Kumar, A. 2020. Flower Crops at IHBT. Vol 1, pp. 1-67 CSIR-IHBT,

Palampur, H.P.

- भव्य भार्गव, पूनम कुमारी, सनतसुजात सिंह एवं अशोक कुमार 2020 व्यावसायिक पुष्प उत्पादन पेज नंबर 1-67 सीएसआईआर-आईएचबीटी, पालमपुर, (हि.प्र.)

#### Technical Brochures

- Bhavya Bhargava (2021) Agrotechnology of Tulip Published by CSIR-IHBT, Palampur
- Bhavya Bhargava, Sanatsujat Singh and R K Sood (2016) Growing Agapanthus in Foot Hills of Himalayas.
- Sanatsujat Singh, Ashok Kumar, Bhavya Bhargava, Ram Kumar Sharma, Raja Ram and R K Sud (2016) Gerbera cultivars Him Saumya, Him Gaurav, Him Aabha, Him Apoorva and Him Keerti.
- Ashok Kumar, Sanatsujat Singh, Bhavya Bhargava, Ram Kumar Sharma, and R K Sud (2016) Calla lily cultivars Him Sumukh and Him Shweta
- Bhavya Bhargava, Sanatsujat Singh, Ashok Kumar, R K Sood and Sanjay Kumar (2018) Indoor air pollution abatement through ornamental house plants

#### Popular Articles

- अंजली चंदेल, मीनाक्षी ठाकुर, अंकुश बाजड़, विकास सोनी, **भव्य भार्गव** 2023 लोकप्रिय होते स्टेटिस फूल फल फूल ICAR
- **Bhavya Bhargava**. 2023. Empowering farmers through CSIR Floriculture Mission. In: India International Horti Expo. India Expo Centre & Mart, Greater Noida, Delhi-NCR
- **Bhavya Bhargava**, Sandeep Malhotra, Anjali Chandel, Anjali Rakwal, Rachit, Raghav Kashwap, Sanjay Kumar. 2022. Mitigation of indoor air pollutants using Areca palm potted plants in real-life settings. In: Air Quality and Human Health: Consequences and Remedies (AQHH-2022), Khalsa College, Amritsar, Punjab
- Vipasha Verma, Akhil Kumar, Priti Chaudhary, Seema Chauhan, Komal Goel and **Bhavya Bhargava**. 2022. Melatonin application ameliorates salt stress impact on growth and photosynthesis of *Tagetes erecta* L. In: 43rd Annual Meeting of Plant Tissue Culture Association – India (PTCA-I) & International Symposium on “Advances in Plant Biotechnology and Nutritional Security” (APBNS-2022), A.P. Sinde Symposium Hall, NASC Complex, New Delhi
- Vipasha Verma, Meenakshi Thakur, Akhil Kumar and **Bhavya Bhargava**. 2022. Underutilized Cereal Crops for the Future: Job's tears for nutritional and economic sustainability in the North Western Himalayas. Biotech Express Magazine. Vol. 9 Issue 102. ISSN: 2454-6968
- Meenakshi Thakur, Vipasha Verma and **Bhavya Bhargava**. 2022. Doubling farmers' income by switching to marigold cultivation. Just Agriculture magazine, vol 2, Issue 6
- Vipasha Verma, Meenakshi Thakur, Gaurav Zinta, **Bhavya Bhargava**. 2022. Gene Edited CRISPR Flowers: Blooming with grace. Biotech Express Magazine Volume 9 | Issue 104 | ISSN: 2454-6968
- एम. के. सिंह, संजय कुमार और **भव्य भार्गव**. 2015. एल्स्ट्रोमेरिया की संरक्षित खेती। फल फूल. जुलाई-अगस्त. 36(4): 3-8
- Y C Gupta, P. Thakur, S R Dhiman, P. Sharma, **B. Bhargava**. 2015. Potential wild ornamentals for commercial use. National Conference on Indian Botanic Gardens, CSIR-NBRI, Lucknow, pp 13-14
- **Bhavya Bhargava**, Sanjay Kumar, Arvind Kumar Verma and M K Singh. 2016. Performance evaluation of calla lily under naturally ventilated polyhouse conditions in mid hills of Western Himalayas. National Conference on Floriculture and Landscaping for Urban & Rural Prosperity, IARI, New Delhi
- Gupta YC and **Bhavya Bhargava**. Protected cultivation of flowers in hilly region. In: National seminar on Hi tech Horticulture for enhancing productivity, quality and rural prosperity, Organized by Indian Society of Seed Science, Ajmer and Indian Society for protected cultivation. Jan. 19-20, 2015 at ICAR-national Research Centre on Seed Spices, Tabiji, Ajmer, Rajasthan, pp. 23-28
- Gupta, Y.C., **Bhargava Bhavya** and Sharma Priyanka. Sustainable Utilization and Conservation of Plant Biodiversity in Temperate Ecosystems for Landscaping. In: International Conference on Biodiversity, Bioresources and Biotechnology held on 30th-31st January, 2014 at Mysore (Karnataka)
- Gupta, Y.C., Gupta, Archana and **Bhargava, Bhavya**. Rural Employment Opportunities for youth in Floriculture and Landscaping. In: Souvenir, National Seminar on Rural Development: Present scenario and future challenges held on 26th - 27th March, 2011 at Shimla (Himachal Pradesh).
- Gupta, Y.C. and **Bhargava, Bhavya**. Recent trends in Genetic improvement of seasonal flowers. In:

Souvenir, National Conference on recent trends and future prospects in Floriculture held on 5th - 8th March, 2011 at SVPUA&T, Modipuram, Meerut (UP).

- Gupta, Y C, **Bhargava Bhavya** and Sharma Priyanka. 2012. Production of cut flowers-opportunities for hill farmers. In: Abstract Book, National seminar on Hill Horticulture - Challenges and Opportunities held on 11th – 12th June, 2012 at Shimla (H.P.)
- **Bhargava, Bhavya** and Gupta Y C. Dye-yielding ornamental plants and their medicinal importance. In: Abstract Book, “National Conference on Plant diversity for aesthetic values and landscape gardening” held on 26th – 28th November, 2010 at TNAU.
- Gupta, Y.C. and **Bhargava, Bhavya**. Conservation and utilization of temperate flora for urban landscaping. In: Abstract Book, 1st Biennial International Congress on Urban Green Space held on 5th – 7th March, 2012 at New Delhi, India.
- Gupta, Y.C., Kashyap Bharti, Bhargava, Bhavya and Sharma Priyanka. Native Flora: Potential and exploitation for dry flower industry. In: Compendium, National Workshop on Floral craft: The art and technique for value addition in flowers held on 12th – 13th April, 2012 at ASPEE College of Horticulture and Forestry, NAU, Navasari (Gujarat).
- Sharma, Priyanka, Gupta, Y.C. and Bhargava, Bhavya. Scope and Prospects of Flower Seed Industry in India. In: Abstract Book, National Conference on recent trends and future prospects in floriculture held on 5th – 8th March, 2011 at SVPUA&T, Modipuram, Meerut (UP).
- Bhargava, Bhavya and Gupta, Y.C. Impact of Global Economic Crunch on Floriculture Industry. In: Abstract Book, National Conference on recent trends and future prospects in floriculture held on 5th – 8th March, 2011 at SVPUA&T, Modipuram, Meerut (UP).
- Gupta Archana, Gupta, Y.C. and Bhargava, Bhavya. Floriculture: An upcoming industry in Himachal Pradesh. In: Abstract Book, National Conference on recent trends and future prospects in floriculture held on 5th – 8th March, 2011 at SVPUA&T, Modipuram, Meerut (UP).
- Bhargava Bhavya, Dilt B S, Gupta, Y.C. and Dhiman S R. Studies on micro propagation of Gerbera (*Gerbera jamesonii* Bolus) cv. ‘Harley’. In: Abstract Book, National Symposium on Life style floriculture: Challenges and Opportunities held on 19th – 21st March, 2010 at Dr. Y. S. Parmar UHF, Nauni, Solan, Himachal Pradesh.

#### Programmes telecast on TV channels

- Delivered a lecture on the topic “carnation ki vyavsayik kheti ki taknik” on 24th February, 2015 for the programme Krishi Darshan telecast by Doordarshan Kendra Shimla
- Delivered a lecture on the topic “Gladiolus cultivation in Himachal Pradesh – an opportunity to rural youth and women for income enhancement” on 12th June, 2015 for the programme Krishi Darshan telecast by Doordarshan Kendra Shimla
- Delivered a lecture on the topic “Commercial cultivation of Gerbera” on 16th July, 2015 for the programme Krishi Darshan telecast by Doordarshan Kendra Shimla

#### Radio Talk

- Participated in live phone-in program on All India Radio, Dharamshala for program Kisanvani-Phoolon ki khetivari ko kaise bnayen fayedemand broadcasted on dt. 31-07-2023
- Participated in Radio talk on All India Radio (Akashvani/ Doordharshan), Dharamshala for program Kisanvani-Phoolon ki khetivari ko kaise bnayen fayedemand (recorded on 30th May 2023) broadcast on dt. 02-06-2023.
- Participated in radio talk on Pushp ayam sthal saundarya me swarozgar ki sambhawanyen on 19<sup>th</sup> July, 2012 at AIR, Shimla

#### Fellowships of professional societies

- Life time member, Indian Society of Ornamental Horticulture, IARI, New Delhi.
- Life time member, The Environment Awareness Society (TEAS).
- Life time member, Society for Horticultural Research and Development, Ghaziabad, UP

- Life time member, Clean and Green Environmental Society, Lucknow, UP
- Life time member, Agro Environmental Development Society (AEDS) Majhra Ghat, Rampur, Uttar Pradesh, India

#### Awards

- Received **Fellow of the Indian Society of Ornamental Horticulture (ISOH)** award on the occasion of National Conference on Smart Farming Solutions for Ornamental Horticulture held on 8-9 November, 2024 at Maharana Pratap Horticulture University, Karnal (Haryana).
- Received **‘Young Scientist Award in Floriculture’** on the occasion of 9th International Conference on “Current Approaches in Agricultural, Biological & Applied Sciences for Sustainable Development (CAABASSD-2024)” organized by Faculty of Agriculture & Agroforestry, Kumaun University, Nainital, Uttarakhand, India and Agro Environmental Development Society (AEDS) Majhra Ghat, Rampur, Uttar Pradesh, India held on March 01-03, 2024 at Kumaun University, Nainital, Uttarakhand, India.
- **Received Best Oral Award**, in 3rd Himachal Pradesh Science Congress 2018-19 Science and technology for rural upliftment through science and technology interventions organized by HPCST&E (HIMCOSTE) at Indian Institute of Technology, Mandi, Himachal Pradesh
- **Received Best Oral presentation** at National Conference on Advances in Indian Floriculture with focus on North East & Hill Region, Medziphema, Dimapur, Nagaland on Development of novel gerbera cultivars through hybridization organized by Central Institute of Horticulture and Indian Society of Ornamental Horticulture, New Delhi dated 15-01-2017.

Bhavya Bhargava