

Curriculum Vitae

Name : Priyanka Kakkar
Degree : Ph. D. Horticulture (Floriculture and Landscaping)
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Date of birth : 30-September-1997
Address : H. No: 97, Indresh Nagar, Dehradun, Uttarakhand- 248001



Objective

To contribute effectively to teaching, research and academic development in the field of Horticulture, bringing strong scientific knowledge, hands-on research skills and a collaborative approach to deliver meaningful outcomes.

Skills

Experimental design and field trial execution, plant tissue culture and in vitro callus induction, molecular characterization, statistical analysis using R software, Agri analyze and OPSTAT, scientific writing and academic communication, coordination of large-scale workshops and conclaves, MS Office (Word, Excel, PowerPoint), CAD/CAM.

Educational Qualification:

Education	Board/ University	Year of Passing	Institution	Percentage/ OGPA
High School	C.B.S.E	2013	The Cambridge Sr. Sec. School, Dehradun	6.4
Intermediate	C.B.S.E	2015	The Cambridge Sr. Sec. School, Dehradun	70
B.Sc. Agriculture	Uttarakhand Technical University	2015	Shree Dev Bhoomi Institute of Education, Science and Technology, Dehradun	84
M.Sc. Horticulture (Floriculture and Landscaping)	VCSG, Uttarakhand University of Horticulture and Forestry	2019	College of Horticulture, VCSG, UUHF, Bharsar	80

Ph.D. Horticulture (Floriculture and Landscaping)	G.B.P.U.A. & T, Pantnagar, Uttarakhand	2025	College of Agriculture, G.B.P.U.A. & T, Pantnagar, Uttarakhand	7.5
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Research Work

Degree Programme	Thesis Title
M.Sc.	Callus Induction Studies from Different Explants of Carnation (<i>Dianthus caryophyllus</i> L.) var. Pink Dona
Ph.D.	Exploring the Potential of Hybridization for Improvement of Gladiolus

Publications

Research Papers

1. **Kakkar, P.**, Bisht, S. S., Verma, S. K., Tiwari, C. and Raj. R. 2025. Effect of 2, 4-D and Kinetin on *In Vitro* Callogenesis of Carnation (*Dianthus caryophyllus* L.). Journal of Advances in Biology and Biotechnology, 28 (4):97-105. <https://doi.org/10.9734/jabb/2025/v28i42170>.
2. **Kakkar, P.**, Bhuj, B. D., Srivastava, R., Singh, N. K., Kapoor, A. K. and Chand, S. 2025. Study of floral biology in different varieties of Gladiolus in the foothills of Himalaya. International Journal of Advanced Biochemistry Research, 9(6): 456-462.

Review Articles

1. Raj, R., Singh, A.K., Negi, K., Joshi, D., Tiwari, C., Devrani, N., **Kakkar, P.**, Bora, H. and Choudhary, T. 2025. Biopolymer-Based Edible Coatings for Maintaining Postharvest Fruit Quality: A Review. Applied Fruit Science, 68:34. <https://doi.org/10.1007/s10341-025-01737-5>. (NAAS-7.4)

Articles

1. **Kakkar, P.** 2023. Blossoming Beauty: Floriculture in Uttarakhand. Krishi Ujala, Agriculture e-Magazine. <http://krishiujala.in/>
2. Tiwari, C., **Kakkar, P.**, Devrani, N. and Mani, G. 2024. Reorienting Agriculture during the Amrit Kaal to make Agriculture Income-centric. 360-364.
3. Kamboj, A., Chowdhury, S., **Kakkar, P.**, Verma, A. and Rongpi, A. 2024. The Role of Flowers in Promoting Human Health. Agriculture & Food: E-Newsletter. 479-481.
4. **Kakkar, P.**, Khayum, A., GB, Srinivasulu and Siddiqua, A. 2024. Beyond the Bouquet: Exploring the Healing Power of Flowers through Aromatherapy. The Agriculture Magazine. 622-625.
5. Bhuj, B. D., **Kakkar, P.**, Tiwari, C. and Devrani, N. 2025. Urban Horticulture: Transforming Urban Landscapes into Thriving Ecosystems. Indian Farmer's Digest. 25-28.

6. Krishna, Singh, V.P., Raj, R., **Kakkar, P.**, Tiwari, C. and Devrani, N. 2025. Ghingharu: A valuable medicinal and ecological shrub of the Himalayas. *Agri-India TODAY*. 5(8): 93-97.

Book Chapters

1. **Kakkar, P.** and Lal, S. 2023. Landscaping and Ornamental Horticulture. In: *New Horizons and Advancements in Horticulture*. Stella International Publication, Haryana. 117-157.
2. Devrani, N., **Kakkar, P.**, Sahu, A. and Tiwari, C. 2023. Global Trends in Floriculture. In: *Floriculture and Landscaping Chronicles: A Collaborative Insights*. Stella International Publication, Haryana. 190-221.
3. **Kakkar, P.** and Krishna. Current Status, Scope and Importance of Commercial Flower. In: *Textbook on Breeding and Production Technology of Commercial Flowers*. P. K. Publishers & Distributors, Delhi-110053. 1-9.

Editorship

1. S. Reme, A. B. Amrin., Sharma, M., **Kakkar, P.** and Chaupoo, A. S. 2023. Insights of Floriculture and Landscaping. Vol. 1. Stella International Publication, Haryana

Abstracts

1. **Kakkar, P.** and Bhuj, B. D. 2024. Automated Pest Monitoring in Floricultural Crops under Greenhouse condition. In: *International workshop on Real-time Automated Pest Monitoring of Horticultural Crops*. GBPUA&T, Pantnagar. Pp, 83.
2. Devrani, N., Kumar, A., **Kakkar, P.** and Tiwari, C. 2024. Automatic Pest Monitoring Systems in Chrysanthemum Production under Changing Climatic Conditions. In: *International workshop on Real-time Automated Pest Monitoring of Horticultural Crops*. GBPUA&T, Pantnagar. Pp, 81
3. **Kakkar, P.**, Bhuj, B. D., Tiwari, C. and Devrani, N. 2024. Seed Set Studies of Intervarietal crosses in Gladiolus under *Tarai* region of Uttarakhand. In: *Progressive Horticulture Symposium (PHNS-2024) on Horticulture in Himalayas*, HNBGU, Srinagar. Pp, 29.
4. Devrani, N., Kumar, A., **Kakkar, P.** and Tiwari, C. 2024. Response of potted chrysanthemum (*Dendranthema grandiflora* var DFRC-3) to pinching for growth, flower yield and quality. In: *Progressive Horticulture Symposium (PHNS-2024) on Horticulture in Himalayas*, HNBGU, Srinagar. Pp, 47.
5. **Kakkar, P.**, Bisht, S.S. and Tiwari, C. 2023. Effect of @, 4-D and kinetin along with amino acids on callus induction of Carnation (*Dianthus caryophyllus* L.). In: *International conference on Protected Cultivation of Horticultural Crops, Post-harvest Handling and Digital Agriculture*. SHUATS, Prayagraj. Pp, 201.
6. **Kakkar, P.**, Bisht, S.S. and Rana, R. 2023. Stimulation of callus in Carnation through IBA and Kinetin. In: *Quality Seed Production: Backbone to the National Food Security*. GBPUA&T, Pantnagar. Pp, 168.
7. **Kakkar, P.**, Bisht, S.S. and Tiwari, C. 2023. Effect of NAA and BA on callus induction of Carnation (*Dianthus caryophyllus* L.). In: *Recent Trends and Future Prospects of Floriculture in India*. ICAR-IIHR, Bangalore. Pp, 82.
8. Tiwari, C., Bisht, S.S. and **Kakkar, P.** 2023. Effect of plant growth regulators on *in vitro* callus induction in Calla lily (*Zantedeschia aethiopica* L.). In: *Recent Trends and Future Prospects of Floriculture in India*. ICAR-IIHR, Bangalore. Pp, 161.

9. **Kakkar, P.** 2023. Dry flower technology. In: Progressive Horticulture Conclave (PHC-2023) on Transforming Horticulture: Science into Technology. GBPUA&T, Pantnagar. Pp, 276.
10. Tiwari, C., Bisht, S.S. and **Kakkar, P.** 2023. Effect of NAA and BA on *in vitro* callus induction in Calla lily (*Zantedeschia aethiopica* L.). In: Progressive Horticulture Conclave (PHC-2023) on Transforming Horticulture: Science into Technology. GBPUA&T, Pantnagar. Pp, 81.
11. **Kakkar, P.**, Bhuj, B. D., Srivastava, R, Singh, N. K., Kapoor, A. K. and Chand, S. 2024. Floral biology studies in Gladiolus under Tarai region of Uttarakhand. In: Frontier sciences and technologies in agriculture for a developed India. GBPUA&T, Pantnagar. Pp, 251.
12. **Kakkar, P.**, Bhuj, B. D., Tiwari, C., Devrani, N., Krishna and Raj. R. 2025. Breeding methods for enhancing quality of ornamental crops. In: X International Conference in Hybrid Mode on Sustainable Agriculture & Allied Sciences. (GRISAAS-2025). Maharana Pratap University of Agriculture & Technology, Udaipur, Rajasthan, India.
13. Devrani, N., Kumar, A., **Kakkar, P.**, Tiwari, C., Krishna and Raj. R. 2025. Genetic engineering for abiotic stress in horticultural crop. In: X International Conference in Hybrid Mode on Sustainable Agriculture & Allied Sciences. (GRISAAS-2025). Maharana Pratap University of Agriculture & Technology, Udaipur, Rajasthan, India.
14. Tiwari, C., Srivastava, R, **Kakkar, P.**, Devrani, N., Krishna and Raj. R. 2025. Advanced imaging technologies for precision floriculture: transforming sustainable flower production through Ai-driven solutions. In: X International Conference in Hybrid Mode on Sustainable Agriculture & Allied Sciences. (GRISAAS-2025). Maharana Pratap University of Agriculture & Technology, Udaipur, Rajasthan, India.

Practical Work Experience:

1. Rural Attachment Work Experience (S.D.B.I.T., Dehradun): Field visits, Village Attachment, Industrial Attachment in Food Processing, Organic Compost, Apiculture and Mushroom Cultivation.
2. Volunteer for Progressive Horticulture Conclave (G.B.P.U.A &T, 2023).
3. Volunteer for International Workshop on “Real-time Automated Pest Monitoring of Horticultural Crops” (G.B.P.U.A &T, 2024)
4. Served as a General Secretary of Horticulture Society, Pantnagar (G.B.P.U.A &T, 2023-24)

Additional Courses

1. Diploma course: Master diploma in Computer Application & System Management (2012)
2. 2 credit course CAD/CAM Computer Aided Design/ Computer Aided Manufacturing from IGNOU, New Delhi (Swayam, NPTEL, 2022)

Trainings

1. Protected cultivation of horticultural crops: opportunities for youth entrepreneurship (CAU, Imphal, 2020)
2. Blended Learning Platform by IASRI, IDP-NAHEP (GBPUA&T, 2023)
3. Advances in Horticulture including Hi-tech Propagation, Value Addition & Landscaping in CAD by IDP-NAHEP (GBPUA&T, 2023)
4. Improved Production Technology for Vegetable Crops by IDP-NAHEP (GBPUA&T, 2023)
5. Hands on Training on Basic Techniques of Molecular Biology at Molecular Biology & Genetic Engineering (MBGE) Laboratory, Uttarakhand Council for Biotechnology, Biotech Bhavan, Haldi, U.S. Nagar (2025)

Workshops

1. System Analysis & Modelling by Directorate of Experiment Station (GBPUA&T, 2023)
2. Entrepreneurship Development in Horticulture by DST-TEC (GBPUA&T, 2024)
3. International workshop on Real-time Automated Pest Monitoring of Horticultural Crops (GBPUA&T, 2024)
4. Nucleic Acid Extraction using Automated Nucleic Acid Extractor (UCB, Haldi, 2024)

Symposium/ Conferences/Conclave/Webinar:

1. The online webinar on “Orchids-The Money Spinning Crop” (Annamalai University, Tamil Nadu, 2020).
2. The online webinar on “World Environment Day-2021” (Doon University, Dehradun, 2021)
3. The online webinar on “International Day for Biological Diversity-2021” (Doon University, Dehradun, 2021).
4. International webinar “Breeding for efficient root system for water and nutrient uptake in crops” by Plantgenomia, 2021.
5. National Youth Conference (GBPUA&T, Pantnagar, 2021).
6. Poster Presentation in Progressive Horticulture Conclave (GBPUA&T, Pantnagar, 2023).
7. Poster Presentation in International Conference on Protected Cultivation of Horticultural Crops, Post-harvest Handling and Digital Agriculture (SHUATS, Prayagraj, 2023).
8. National Agri-Startup Conclave by IDP-NAHEP (GBPUA&T, 2023)
9. International conference on Protected Cultivation of Horticultural Crops, Post-harvest Handling and Digital Agriculture, 2023.
10. Poster Presentation in National Conference on “Quality Seed Production: Backbone to the National Food Security” (GBPUA&T, Pantnagar, 2023).
11. Poster Presentation in National Conference on “Recent Trends and Future Prospects of Floriculture in India” organized by ICAR-IIHR, Bangalore, 2024.
12. National Youth Conference (GBPUA&T, Pantnagar, 2021 & 2024).
13. Oral Presentation in Progressive Horticulture Symposium (PHNS-2024) on Horticulture in Himalayas (HNBGU, Srinagar, 2024).
14. Poster presentation in XVII Agriculture Science Congress, (GBPUA&T, Pantnagar, 2024).

15. X International Conference in Hybrid Mode on Sustainable Agriculture & Allied Sciences (GRISAAS 2025) at MPUA&T, Udaipur.
16. VII International Conference in Hybrid Mode on Innovative and Current Advances in Agriculture & Allied Sciences (ICAAAS 2025) at UOU, Haldwani.

Co-curricular/ Extra-curricular Activities:

1. Participated in the online National Agriculture Talent Hunt quiz competition by Career Point University, Kota (2020).
2. Participated in “Blood Donation Drive 2022” organized by CABM (GBPUA&T, 2022).
3. Got second prize in quiz competition organized by Horticulture Society, Pantnagar (GBPUA&T, 2022-23).
4. Participated in quiz competition organized by General Bipin Rawat Research School on Hill Development (GBPUA&T, 2023).
5. Participated in “G20 University Connect Programme: Engaging Young Minds under the theme of Innovating Agricultural Education Landscape: Technology, Entrepreneurship, Sustainability” (GBPUA&T, 2023).
6. Contributed in decoration work done during the “35th Convocation of G.B. Pant University of Agriculture & Technology, Pantnagar” (GBPUA&T, 2023).
7. Member, Horticulture Society (College of Agriculture, GBPUA&T, 2022-23).
8. Got second prize in tug of war under “Horticulture week” organized by Horticulture Society, Pantnagar (GBPUA&T, 2023-24).
9. Got second prize in cricket under “Horticulture week” organized by Horticulture Society, Pantnagar (GBPUA&T, 2023-24).
10. Qualified with honour grade in online awareness quiz on “World Horticulture Day” organized by R.S.M College Dhampur, Bijnor, Uttar Pradesh, India (2024).

Awards and achievements:

1. Qualified ASRB-NET in Floriculture & Landscaping, 2021.
2. Best Oral Presentation Award in Progressive Horticulture Symposium (PHNS-2024) on Horticulture in Himalayas (HNBGU, Srinagar, 2024).
3. Young Professional Award in the field of Floriculture and Landscaping on the occasion of X International Conference in Hybrid Mode on Sustainable Agriculture & Allied Sciences (GRISAAS 2025) at Maharana Pratap University of Agriculture & Technology, Udaipur, Rajasthan, India.
4. Best Thesis Award in the field of Floriculture and Landscaping on the occasion of VIIth International Conference in Hybrid Mode on Innovative and Current Advances in Agriculture & Allied Sciences (ICAAAS 2025) held at Uttarakhand Open University, Haldwani, Nainital, Uttarakhand, India.

Hobbies: Dancing, singing, reading novels and books, meditating, cooking and traveling.

References:

Name	Correspondence
Dr. B.D Bhuj	Professor, Department of Horticulture, G.B Pant University of Agriculture and Technology, Pantnagar, Uttarakhand. Mob. No. : +91-9456552484
Dr. S.S. Bisht	Assistant Professor, Department of Basic and Social Sciences, VCSG, Uttarakhand University of Horticulture & Forestry, Bharsar, Pauri Garhwal, Uttarakhand Mob.: +91-8439508457

I declare that the information given above is true and correct to the best of my knowledge and belief. If any information is found to be false, my candidature/services, if selected, may be terminated without notice.



Place: Pantnagar, Uttarakhand.

Signature of Applicant