



Dr. Savita

Ph.D. (Vegetable Science)

Profile Summary

Dr. Savita is an Assistant Professor and In-Charge (Vegetable Science) at Veer Chandra Singh Garhwali University of Horticulture and Forestry, Bharsar, Pauri Garhwal, Uttarakhand, specializing in Vegetable Science, with a focus on plant breeding, seed production technology, and technology-enabled smart agriculture.

She holds a Ph.D. in Vegetable Science from G.B. Pant University of Agriculture & Technology (G.B.P.U.A. & T.), Pantnagar, backed by an M.Sc. in Vegetable Science and a B.Sc. in Horticulture from the same university, with over 9 years of experience across teaching, research, and academic administration.

She has qualified the ICAR-NET examination and is a recipient of the prestigious Rajiv Gandhi National Fellowship (UGC) and a Research Assistantship under the AICVIP (All India Coordinated Vegetable Improvement Project).

Dr. Savita is actively involved in teaching, research, and mentoring — having guided one Ph.D. scholar and sixteen M.Sc. dissertations — with a strong focus on integrating vegetable breeding, seed production technology, and IoT-based smart farming solutions to address real-world agricultural challenges.

Her research portfolio includes one granted Indian national patent, 35 published Indian national patents, one Scopus-indexed book, seven Scopus-indexed articles, and a total of 27 publications.

Her areas of expertise include **Vegetable Breeding, Seed Production Technology, Post-Harvest Management of Horticultural Crops, Production Technology of Underutilized Vegetable Crops, IoT-based Smart Agriculture, and Soil Fertility Management.**

Research Interests / Specialization

Vegetable Breeding, Vegetable Production, Seed Production Technology, Post-Harvest Management of Horticultural Crops, Production Technology of Underutilized Vegetable Crops, IoT-based Smart Agriculture, Manures, Fertilizers and Soil Fertility Management.

Recent Publications

(Published papers in referred journals – recent 5 years / 5 papers)

Sr.No.	Title of Paper	Journal	ISSN No.	Volume No.	Year of Publication
1	Recent development of nanobiomaterials in sustainable agriculture and agrowaste management	Biocatalysis and Agricultural Biotechnology	-	56	2024
2	Comparative study on growth, yield, and head quality in broccoli cultivars with boron and manganese micronutrients in the subtropical region	Vegetos	-	-	2024
3	Integrating IoT-Based Environmental Monitoring and Data Analytics for	Intl. Conf. on Technological	-	-	2023

Sr.No.	Title of Paper	Journal	ISSN No.	Volume No.	Year of Publication
	Crop-Specific Smart Agriculture Management: A Multivariate Analysis	Advancements in Computational Sciences (ICTACS), IEEE			
4	Economic analysis of tomato (Solanum lycopersicum) cultivar grown in different soilless substrates under protected conditions	Research on Crops	-	23(2)	2022
5	Field performance of twenty-six genotypes of cauliflower under Punjab condition	Plant Cell Biotechnology and Molecular Biology	-	-	2021

Education

Sr. No.	Examination	University/Board	Main Subject	Year of Passing
1	Ph.D.	G.B. Pant University of Agriculture & Technology, Pantnagar	Vegetable Science	2015
2	M.Sc.	G.B. Pant University of Agriculture & Technology, Pantnagar	Vegetable Science	2012
3	B.Sc.	G.B. Pant University of Agriculture & Technology, Pantnagar	Horticulture	2006

Work History

Academic Experience

Duration (From-To)	Post	Organization	Nature
August 2024 - Present	Assistant Professor & OIC (Vegetable Science)	Veer Chandra Singh Garhwali University of Horticulture and Forestry, Bharsar, Pauri Garhwal, Uttarakhand	Permanent
December 2021 - April 2022	Assistant Professor II (Horticulture)	Amity University, Noida	Regular
April 2022 - August 2024	Associate Professor (Agriculture) & Research Coordinator	Graphic Era Hill University, Dehradun	Regular
August 2015 - November 2021	Assistant Professor (Horticulture)	Lovely Professional University, Punjab	Regular

Administrative Experience

Duration	Post	Organization	Nature
December 2023 - August 2024	IPR Head	Graphic Era Hill University, Dehradun	-
January 2023 - August 2024	NAAC Criteria 3 Head & Research Coordinator	Graphic Era Hill University, Dehradun	-

Duration	Post	Organization	Nature
July 2018 - November 2021	Secretary, Domain Curriculum Committee	Lovely Professional University	-
July 2016 - November 2021	Lab In-charge, Vegetable Science Lab	Lovely Professional University	-
July 2016 - December 2020	Cultural Coordinator	Lovely Professional University	-

Thesis Supervision

Student(s)	Degree	Title	Year	Awarded by
Sandeep	M.Sc. (Vegetable Science)	Genetic diversity and correlation studies in early cauliflower (<i>Brassica oleracea</i> var. <i>botrytis</i> sL.)	2016	Lovely Professional University, Punjab
Sudhir Pratap Singh	M.Sc. (Fruit Science)	Effect of packaging materials on shelf life of Sapota (<i>Acharas zapota</i>) fruit	2017	Lovely Professional University, Punjab
Pardeep	M.Sc. (Vegetable Science)	Effect of Planting Density and Inorganic Fertilizers on Growth, Yield and Quality of bulb in Onion (<i>Allium cepa</i> L.)	2018	Lovely Professional University, Punjab
Darpreet kaur	M.Sc. (Vegetable Science)	Evaluation and characterization of Cauliflower (<i>Brassica oleracea</i> var. <i>botrytis</i> L.) genotypes	2018	Lovely Professional University, Punjab
Sanjeev	M.Sc. (Vegetable Science)	Effect of Plant Growth Regulators in Combination with Nitrogen and Sulphur on Growth and Yield of Garlic (<i>Allium sativum</i> L.)	2018	Lovely Professional University, Punjab
Ankush	M.Sc. (Vegetable Science)	Study on Effect of the Spacing and Mulch on Yield, Clove Size and Quality of Garlic (<i>Allium sativum</i> L.)	2018	Lovely Professional University, Punjab
Vandana Thakur	M.Sc. (Vegetable Science)	Studies on performance of bitter gourd (<i>Momordica charantia</i> L.) genotypes under open and protected conditions	2018	Lovely Professional University, Punjab
Sushil Kumar	M.Sc. (Vegetable Science)	Studies on performance of bottle gourd [<i>Lagenaria siceraria</i> (Mol.) Standl.] genotypes under open and protected conditions	2018	Lovely Professional University, Punjab
Opinder Singh	M.Sc. (Vegetable Science)	Comparative studies on cherry tomato (<i>Solanum lycopersicum</i> var. <i>cerasiformae</i>) cultivars under polyhouse and open conditions.	2019	Lovely Professional University, Punjab
Abhijeet Jakhar	M.Sc. (Vegetable Science)	Studies on the genetic variability and character association in pea caused by induced mutation (<i>Pisum sativum</i> L.) cv. Punjab-89	2020	Lovely Professional University, Punjab

Student(s)	Degree	Title	Year	Awarded by
Parvesh	M.Sc. (Vegetable Science)	Comparative study for yield and quality of head in colored varieties of broccoli (<i>Brassica oleracea</i> var. <i>italica</i> L.) With effect of micronutrients	2020	Lovely Professional University, Punjab
Akshita Bisht	M.Sc. (Vegetable Science)	Effect of seed priming on growth and yield of French bean (<i>Phaseolus vulgaris</i> L.)	2021	Lovely Professional University, Punjab
Diksha Thakur	M.Sc. (Vegetable Science)	Effect of organic mulches on growth, yield and quality of cauliflower (<i>Brassica oleracea</i> var. <i>L. botrytis</i>)	2021	Lovely Professional University, Punjab
Vishant	M.Sc. (Vegetable Science)	Effect of seed priming and post priming during storage in Pea (<i>Pisum sativum</i> L.) Varieties	2021	Lovely Professional University, Punjab
Ms. Radhika	M.Sc. (Vegetable Science)	Effect of organic amendments on growth, yield, quality and economics of cauliflower (<i>Brassica oleracea</i> var. <i>L. botrytis</i>) cv. Snow Queen	2021	Lovely Professional University, Punjab
Mr. Parvesh	M.Sc. (Vegetable Science)	Character association of tomato (<i>Solanum lycopersicum</i> L.) germplasms in Uttarakhand	2024	Graphic Era Hill University, Dehradun
Nikhil Ambish Mehta	Ph.D. (Vegetable Science)	Performance of tomato cultivars (<i>Solanum lycopersicum</i> L.) In different soilless culture substrate under protected conditions	2021	Lovely Professional University, Punjab

Professional Activities

Activity / Membership	Organization	Since
IPR Head	Veer Chandra Singh Garhwali University of Horticulture and Forestry, Bharsar	December 2023
NAAC Criteria 3 Head & Research Coordinator	Veer Chandra Singh Garhwali University of Horticulture and Forestry, Bharsar	January 2023

Awards / Achievements

Awards / Achievements	Organization	Year
Rajiv Gandhi National Fellowship	University Grants Commission (UGC)	2012 - 2015
Research Assistantship under AICVIP (All India Coordinated Vegetable Improvement Project)	G.B.P.U.A. & T., Pantnagar	2010 - 2012

Publications Summary

Total number of Research Papers	27 (7 Scopus-indexed, 2 SCI, others)
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Total number of Papers presented in various conferences/symposium etc.	3
Books	1 (Springer)
Book chapters	7 (1 International, 6 National)
Review papers	1
Lead papers	0
Popular articles	7
Technical bulletins	1
Souvenir	0
National Patents (Published / Granted)	35 Published, 1 Granted, 4 under process