



Dr. Sanjay Chadha, Principal Scientist (Vegetable)

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Field of Specialization and Research interest

Specialization: Vegetable Breeding

Research Interests:

- Development of bacterial wilt resistant high yielding hybrids/varieties of tomato
- Development of CMS based hybrids and inbreds in cabbage
- Organic and Natural Farming

Education Qualification

Examination	Year	Division Obtained	University/Board	Subjects
Ph.D (Veg. Science)	1998	First	CSKHPKV, Palampur	Vegetable Breeding
M.Sc. (Veg. Science)	1994	First	CSKHPKV, Palampur	-do-
B.Sc. (Agri.)	1992	First	CSKHPKV, Palampur	Plant protection as elective
NET (Hortic./Veg.)	1997/1998		ICAR, New Delhi	Horticulture/ Vegetable

Employment Record along with Professional Experience (in year)

Post Held	Station & Period	Nature of job
Scientist. (Veg.)	RSS Lari (4.5 Years)	<ul style="list-style-type: none"> • Polyhouse technology suited to cold deserts for cultivation of Vegetables at >10000 feet altitude. • Improved agrotechniques for cultivation of vegetables in cold desert area • Germplasm collection and varietal evaluation. • Plantation and Management of apple and almond orchard • DDO cum Scientist Incharge of the research station
Scientist (vegetable) Sr., Scale	Vegetable Sci. (3.5 Years) Agricultural Biotechnology(5 Months) DEE, CSK HPKV, Palampur (3 Months)	<ul style="list-style-type: none"> • Teaching UG & PG courses pertaining to vegetable science (List of courses taught till date attached) • Breeding tomato for bacterial wilt resistance • Vegetable seed Production • Evaluation of varieties of carrot, radish and kale • Double Haploidy in Brassica crops • Extension work
Scientist (vegetable) Sr., Scale till 24.12.2012 Sr. Scientist Till	Organic Agriculture (4.5 Years)	<ul style="list-style-type: none"> • Standardization of Organic vegetable production technology • Breeding organic input responsive varieties (tomato, pea, kale etc.) • Standardization of Organic vegetable production technology under polyhouse conditions • Collection, evaluation and characterization of germplasm/land

10.03.2014		<p>races of vegetables suitable for growing under organic input conditions</p> <ul style="list-style-type: none"> • Teaching PG courses
<p>Sr. Scientist (Vegetable) Till 24.12.2015 & Pr. Scientist Till date</p>	<p>Vegetable Sci. (6.5 years)</p>	<ul style="list-style-type: none"> • Development of SI and CMS based hybrids of cabbage • Development of bacterial wilt resistant hybrids/lines of tomato • Collection, evaluation and characterization of germplasm/land races of tomato, cabbage and radish • Improvement in Radish
<p>Research Project handled: P.I: 3 Component PI: 4 Co-P.I: 7</p>		
<p>Research Publications:</p> <p>Total Publications published in journals: 62</p> <p>(Best 5 publications during last 5 years)</p> <ol style="list-style-type: none"> 1. Shaina Sharma, Sanjay Chadha, Nitish Sharma and Paras Singh 2019. Genetic Evaluation of CMS Lines and their Maintainers for Yield and Horticultural Traits in Cabbage (<i>B. O. var.capitata</i> L.) International Journal of Current Microbiology and Applied Sciences (2019) 8(8): 2398-2408 [NAAS Score: 5.38] 2. Kumar N., Chadha S. and Kanwar S. 2019. CMS and SI based heterosis for yield and related traits in low chill cabbage under mid hills conditions of Himachal Pradesh. Indian Journal of Horticulture 74(4): 663-671 [NAAS score: 6.11] 3. Kaur Amandeep, Sood Sonia, Sood VK, Chadha Sanjay and Singh A. 2019. Genetic analysis of quantitative and quality traits in okra under sub-temperate conditions of North-Western Himalayas. International Journal of Current Microbiology and Applied Sciences: 492-504 [NAAS Score: 5.38] 4. Kaur Manmeet, Chadha S, Kumar N, Sehgal N and Kanwar S 2018. Character association and path analysis among CMS and SI based cabbage hybrids under mid hill conditions of Himachal Pradesh, India. International Journal of Current Microbiology and Applied Sciences 7(1):424-430 [NAAS Score: 5.38] 5. Sehgal Nidhi, Chadha, S, Kumar N, Kaur M and Kanwar S. 2018. Correlation and path coefficient analysis for fruit yield and its component traits among bacterial wilt resistant F4 progenies of tomato (<i>Solanum lycopersicon</i> L.). International Journal of Current Microbiology and Applied Sciences 7(2):1052-1059. [NAAS Score: 5.38] 		
<p>Book Published: 4 Book Chapters: 5 Manuals (Practical/Teaching): 2</p>		
<p>Conference/Seminars/Symposium Papers:</p>		<p>39</p>
<p>Extension activities: Popular articles: 42 Pamphlets: 5</p>		
<p>Students Guided: PG (M.Sc.) : 11 Ph.D: 4</p>		
<p>Awards/Fellowships</p> <ol style="list-style-type: none"> 1. Awarded IPA Gold Medal (2007) 2. Best poster prize-First (2011) 3. ISHA (Indian Society of Hill Agriculture) Best paper award (2011) 		
<p>International Exposure/Visits Abroad: Nil</p>		
<p>Miscellaneous Achievements /activities:</p> <ul style="list-style-type: none"> • 4.5 Years Experience as Scientist Incharge of RSS-Lari • More than 4 Years Experience as Farm Incharge of Vegetable Farm/Organic Farm • 2 Years 9 Months experience as Warden of PG hostel. • 2 years experience as member of Board of Studies of College of Agriculture • 3 Years experience of member of editorial board of Him Jyoti magazine of COA • Member of Editorial board of Journal of Hill Agriculture • Co-organizing secretary of National Seminar on Organic Agriculture • Actively involved in students sports activities/educational/sports tour of students, various disciplinary committees, Department Inspection committee, duties in various committee constituted at university and college level, etc 		