

Name	Dr. Devinder Sharma
Designation	Associate Professor
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Awards/Honours/ Scholarships /Fellowships	<ul style="list-style-type: none"> ✓ ICAR Best reporting centre (AICRP Honeybee and Pollinators), ICAR New Delhi (2019) ✓ ICAR Best Presenting centre (AICRP Honeybee and Pollinators), ICAR New Delhi (2022) ✓ STAR SCIENTIST AWARD, SKUAST JAMMU 2021 ✓ Young teacher award International Conference at Kathmandu Nepal by Society for Agriculture Innovation and Development, Ranchi ✓ Young scientist Award 2019 at International Conference at BHU Varanasi by Mahima Research Foundation and Social Welfare. ✓ Best Poster Presentation award at International Conference at Kathmandu Nepal Tribhuvan University Nepal (2019) ✓ First prize Experiential learning unit Beekeeping, SKUAST Jammu (2022) ✓ First prize Experiential learning unit Beekeeping, SKUAST Jammu (2021) ✓ University merit scholarship (Ph.D.) ✓ Appreciation award Dean FOA (2021) SKUAST Jammu ✓ Appreciation award Dean FOA (2022) SKUAST Jammu ✓ Appreciation award, 118 regiment Indian Army Indian Army ✓ Appreciation award KIAROS 2019 SKUAST Jammu ✓ Binani Gold Medal during MSc. (Ag.) I.Ag. Sc. BHU Varanasi ✓ BHU Gold Medal during MSc. (Ag.) I.Ag. Sc. BHU Varanasi ✓ PhD merit certificate SKUAST Jammu, SKUAST Jammu ✓ Jawahar Lal Nehru Merit certificate, I.Ag. Sc. BHU Varanasi ✓ Thaku Dass Nicobai Kapoor Fellowship during MSc. (Ag.) I.Ag. Sc. BHU Varanasi
Professional experience	16 years
Area of specialization	Apiculture, Non Apis Pollinators
Research interests	Bee breeding, molecular disease diagnostics, bee products characterization, pollination, bee management
Total number of publications.	65
Selected publications (best five)	<ol style="list-style-type: none"> 1. Sharma, D., Abrol, D. P., Ahmad, H., Arvind Ishar and Bandral, R. S. Traditional beekeeping in Jammu and Kashmir, India. <i>Bee World</i>, 91 (3) : 31-35 2. Sharma D., Abrol D. P., Ahmad H., Srivastava K. and Jamwal, V. V. S. Plants For Bees Brankad: <i>Adhatoda vasica</i> Nees. <i>Bee World</i>, 91 (2) : 49-50 3. Sharma, D. 2020. <i>Rauwolfia tetraphylla</i> L. – Bee Supporting

	<p>Plant during Nectar and Pollen Dearth. <i>Bee world</i>, 97(1):61-63</p> <p>4. Sharma, D. and Abrol, D. P. Plant for bees : <i>Cirsium falconeri</i>. <i>Bee World</i> 90 (5) : 47-48</p> <p>5. Sharma, D. <i>Moringa oleifera</i> Lam.: The Honey Bee Heaven Plant in Jammu and Kashmir. <i>Bee world</i>, 96(1):1-3</p>
No. of Books/ Book Chapters/ manuals monographs	<p>Book Chapter: 10</p> <p>Compendium/Souvenir chapters: 25</p> <p>Manuals : 15</p> <p>Pamphlets : 12</p> <p>Expert lectures : 27</p> <p>Abstracts in conferences : 51</p>
Other achievements □	<ul style="list-style-type: none"> ✓ Varietal development (Associated) : 03 ✓ Training organized : 59 ✓ Entomological Society of India ✓ Member, Bangladesh Journal of Botany ✓ SIDAVES life member ✓ Member Indian society of vegetable Science ✓ Referee, Annals of Plant protection sciences ✓ Referee, Spanish Journal of Agricultural Research ✓ Referee, Journal of Agricultural Science, Canada ✓ Reviewer, International Journal of Agriculture Sciences ✓ Reviewer, Journal of Essential Oil Bearing Plants ✓ Reviewer, Projects Science and Engineering Research Board, New Delhi ✓ External examiner (paper setter/evaluator) : 15 ✓ External examiner (Thesis evaluation/viva voce) : 08 ✓ External Expert for appointment: 01

Students Guided

MSc. (09)

Aditi charak	Impact of insecticides on insect –pests of litchi (<i>Litchi chinensis</i>)
Ram Narayan Sharma	Nucleic acid based identification and diversity study of major honeybee (<i>Apis mellifera</i> L.) viruses in jammu region
Shallu Choudhary	Nest architecture and foraging behaviour of <i>Ceratina viridissima</i> (Dalla Torre)
Vishal Singh thakur	Biochemical analysis of honey from Jammu region
Ayaz Ahmad Reshi	Studies on honey production potential of <i>Plectranthus rugosus</i> Wall,.
Subhash Singh	Studies on insect pest and pollinator complex of broccoli (<i>Brassica oleracea</i> var. <i>italica</i> Plenck)

Divya Chaand	Studies on the performance of <i>Apis mellifera</i> under Jammu conditions
Karandeep Singh Sasan	Effect of plant volatiles on insect pests and pollinators of mustard (<i>Brassica campestris</i> var <i>sarson</i>)
Asifa Maqbool	Management of whitefly on tomato

PhD : (02)

Shallu Raina J-16-D-272-A	Population dynamics and management of major insect pests of strawberry and phalsa
Manoj Thakur J-18-D-333-A	Refinement and standardization of modern hive for <i>Apis cerana</i> F.

Projects handled (Externally funded) as Principal Investigator

S. No	Name of the project	Funding Agency	Budget (Rs. in Lakhs)	Status
1.	Identification and Molecular characterization of honeybee diseases in Jammu and Kashmir	SERB – DST New Delhi	31.95	Completed
2.	Scientific intervention for validation and popularization of traps for management of insect pests in vegetable growing areas of Jammu Region	NABARD Jammu	7.58 lakh	Completed
3.	AICRP on Honeybees and Pollinators	ICAR, New Delhi	30.00 /year	On going
4.	Evaluation of bio-efficacy of Cyantraniliprole 7.3% w/w + Diafenthiuron 36.4% w/w SC (Minecto Forte 480 w/v SC) against Okra pests	Syngenta India	4.00	Completed
5.	Entrepreneurship Awareness Camp	DST NIMAT, Ahmedabad	1.50	Completed
6.	Establishment of honey and other bee products testing centre in Ramban	National Bee Board, New Delhi	103.50	On going

	district of Jammu division of Jammu and Kashmir (UT), India			
7.	Establishment of integrated beekeeping development centre for promoting beekeeping in Jammu region of Jammu and Kashmir, India (Training and Seminars, out of state exposure, promotion of bee flora)	National Bee Board, New Delhi	25.15	On going
8.	Mobilization of Farmers through Development of Bee Village for Collective Marketing of Organic Honey	NABARD Jammu	13.25	On going
9.	Quality profiling of Beeswax for promoting diversification in beekeeping in Jammu and Kashmir	National Bee Board, New Delhi	46.99	Ongoing
10.	Setting up of honeybee disease diagnostic and treatment laboratory in SKUAST- Jammu (J&K)	National Bee Board, New Delhi	25.56	Ongoing

Technologies developed

- Wasps traps (simple wasp trap and double bait wasp trap) were developed. Significant reduction in wasp and mite menace was recorded throughout the state.
- Nesting hut has been prepared for housing shelters of solitary bees. Different nesting material viz., bamboo stems and castor stems of varying size have been prepared for installation for domestication and rearing of *Xylocopa* species
- Artificial diet for management of bee during dearth season
- Refined hive for *Apis cerana* has been developed
- Developed molecular diagnostics for identification of bee disease
- Development of honey testing kit under AICRP Honeybee and Pollinators project
- Development of You tube channel on beekeeping under Experiential Learning Programme

Infrastructure developed

- Established Honey testing laboratory: Atomic Absorption Spectrophotometer (AAS); FTIR with ATR; HPLC; Gel Doc
- Established facility of toxicity studies in insects through purchase and installation of Burkard Computer Controlled spraying apparatus
- Established facility for morphometric studies of insects through installation and functioning of Leica Microscope in apiculture laboratory
- Established and strengthened the Experiential learning unit
- Established Disease Diagnostic laboratory through installation of Gel Doc; Nano drop; refrigerated centrifuge, CO₂ centrifuge, BoD incubator, electrophoretic unit etc.
- Increased honey production through multiplication of bee colonies under AICRP (Honeybee and Pollinators)

Success Stories published

- 8 success stories of beekeepers published through National Bee Board. One success story of progressive beekeeper was cited by Honb'le PM in his Mann ki Baat.