

Dr Yash Pal Sharma

Professor

Specialization: Phytochemistry of Medicinal & Aromatic plant, Analytical method development, Quality evaluation of raw herbal drugs, Morpho-chemical germplasm evaluation of Medicinal plants. Breeding and Propagation studies of endangered temperate Medicinal and Aromatic plants.



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Ongoing Research Projects

- All India Coordinated Research Project on Medicinal & Aromatic Plants, Betelvine funded by ICAR New Delhi (Since 1974-long term-Principal Investigator)
- Establishment of Forestry Herbarium- Preserved genetic resources of Medicinal & Aromatic Plants of H.P. funded by Govt of H.P (Since 1988-long term-Principal Investigator)
- Pilot Project on Cultivation of Cannabis in Himachal Pradesh funded by Govt. of Himachal Pradesh. (Principal Investigator)
- SAMPARK: Building, Capacity for Sustainable Environment: Advanced Material, Photonics, and System Design for a Clean Energy Transition under ANRF-PAIR Programme with IIT, Delhi (Co-Principal Investigator)
- Network Project on Harvesting, Processing and Value Addition to Natural Resins and Gums (FCR-037-22) funded by ICAR New Delhi (long term) (Co-Principal Investigator)

Best 10 Research papers:

- Rani A, Guleria G, Sharma YP* and Sharma R. 2026. Influence of drying and storage microenvironments on spilanthol stability in *Spilanthes acmella* capitulum. *South African Journal of Botany* 194: 164-174.
- Rani A, Sharma Y.P* Guleria G, Bhardwaj C and Sharma R. 2026. Isolation, characterisation, extraction optimization, and kinetics of spilanthol from *Spilanthes acmella* using ultrasound-assisted extraction. *Microchemical Journal* 222: 117187.
- Kumar V, Sharma R, Sharma P, Sharma YP, Thakur K.and Sharma R. 2025. Developmental stage significantly affects in vitro propagation practices: a case study in *Paris polyphylla* Smith, an important endangered medicinal plant of Himalayas. *Journal of Plant Growth Regulation* 44: 3635-3659.

- Rani P, Thakur RK, Sharma YP, Thakur M, Waseem MA, Soni K and Sahoo BK. 2025. Pollination ecology and flowering rhythm of *Gloriosa superba* L.: Behavioural insights into principal pollinators. 2025. *Plant Science Today* 12: 1-8.
- Sharma N, Kaur R, Sharma YP, Vittal H, Sharma N and Raina R. 2024 Identification of quantitative trait loci for sweetening genes of *Stevia rebaudiana* Bertoni with multiple marker system. *South African Journal of Botany* 171: 536-545.
- Sharma YP, Bhardwaj C, Sharma R, Thakur P and Sharma R. 2022. A new RP-HPLC method for simultaneous determination of amaroswerin, amarogentin and andrographolide in a Herbal Drug “Chirayata”. *Journal of Chromatographic Science* 61: 172-176.
- Hamid, Thakur NS, Sharma R, Sharma YP, Gupta RK, Rana N, and Thakur A. 2022. Phenolics from underutilized wild pomegranate fruit flavedo: Extraction, quantification, hierarchical clustering, antibacterial properties, HPLC, SEM analysis and FT-IR characterization. *South African Journal of Botany* 145: 85-94.
- Sharma N, Thakur M, Sharma P, Sharma YP and Dutt B. 2022. In vitro propagation from rhizomes, molecular evaluation and podophyllotoxin production in Himalayan May Apple (*Sinopodophyllum hexandrum* Royle T.S. Ying): an endangered medicinal plant. *Plant Cell, Tissue and Organ Culture* 149: 159-173.
- Sharma S, Parasher K, Mukherjee P and Sharma YP. 2021. Cryopreservation of a threatened medicinal plant *Valeriana jatamansi* Jones using vitrification and assessment of biosynthetic stability of regenerants. *CryoLetters* 42: 300-308.
- Raina, R, Patil P, Sharma YP and Rana RC 2013. Reproductive Biology of *Swertia chirayita* - A temperate critically endangered medicinal Plant. *Caryologia* 66: 12-20

Awards and Recognitions

- Awarded Best Technology award for developing the technology of RP-HPLC method development for simultaneous determination of bioactive compounds in the herbal drug “Chirayata” during 32nd Annual Group Meeting of ICAR- AICRP & Betelvine held at ICAR Directorate of Medicinal and Aromatic Research, Gujarat w.e.f 24th to 26 February 2025. Dr Yash Pal Sharma, Dr Reena Sharma, Dr Pancy Thakur and Dr Rohit Sharma.
- Awarded third prize in poster paper “ Importance of growth and development studies vis-à-vis secondary metabolite accumulation in *Valeriana jatamansi*” (Yashpal Sharma, Romesh Chand and R. Raina), presented during National Interactive meet on Scope and opportunities

in Research and Business of Medicinal & aromatic plants, held at CIMAP, Lucknow 17th-18th May, 2002.

- Awarded *Certificate of Appreciation* for developing a novel quick spot test for determination of quality of Indian Valerian drug on the basis of presence of valeporiates'during XXV Group Meeting of AICRP on Medicinal and Aromatic Plants held at Maharana Pratap University of Agriculture and Technology Udaipur, Rajasthan w.e.f. 11th November-14th November, 2017.
- Awarded best presentation award *in Phytochemistry* session during XXVI Group meeting of the AICRP on Medicinal & Aromatic Plants and Betelvine held at AAU, Jorhat- Assam on 28-30 Sept.,2018
- Awarded best presentation award *in Crop Improvement* session during XXVI Group meeting of the AICRP on Medicinal & Aromatic Plants and Betelvine held at AAU, Jorhat- Assam on 28-30 Sept., 2018
- Received *Certificate of Appreciation* on 12th June, 2019 from Vice Chancellor, YSPUHF Nauni, Solan for outstanding contribution in Medicinal & Aromatic Plants.