

## Dr YP Sharma

### Professor and HOD

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

- ICAR- All India Coordinated Research Project on Medicinal & Aromatic Plants, Betelvine (Principal Investigator)
- ICAR- Network Project on Harvesting, Processing and Value Addition to Natural Resins and Gums (Co-Principal Investigator)
- Promoting Conservation of Declining Life Support Forest Trees Species in H.P.” funded by NMHS, GB Pant National Instt. of Himalayan Environment and Sustainable Development, Almora, Uttarakhand from 2021 to 2024. (Co-Principal Investigator)
- Establishment of Forestry Herbarium- Preserved genetic resources of Medicinal & Aromatic plants of H.P. funded by Govt of H.P (Principal Investigator)

### Important Research Publication

- Yash Pal Sharma, Chitralekha Bhardwaj, Rohit Sharma, Pancy Thakur and Reena Sharma. 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.
- Neha Sharma, Manisha Thakur, Pooja Sharma, Bhupender Dutt, Yash Pal Sharma. 2022. *In vitro* propagation from seeds and enhanced synthesis of podophyllotoxin from root callus of *SinoPodophyllum hexandrum* Royle T.S. Ying (Himalayan Mayapple)- An endangered medicinal plant. *Industrial Crops & Products*. 186: 115300.
- Hamid, N.S. Thakur, Rakesh Sharma, Y.P. Sharma, R.K. Gupta, Neerja Rana, Abhimanyu Thakur. 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.
- Neha Sharma, Manisha Thakur, Pooja Sharma, Yash Pal Sharma, Bhupender Dutt. 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*
- Rakesh Sharma, Geney Burang, Satish Kumar, Yash Pal Sharma, Vikas Kumar. 2021. Optimization of apricot (*Prunus armeniaca* L) blended *Aloe vera* (*Aloe barbadensis* M) based low calorie beverage functionally enriched with aonla juice (*Phyllanthus emblica* L)" *Journal of Food Science and Technology*. 59 (5), 2013-24
- Shailika Sharma, Kiran Parasher, Papiya Mukherjee, Yash Pal Sharma. 2021. Cryopreservation of a threatened medicinal plant *Valeriana jatamansi* Jones using vitrification and assessment of biosynthetic stability of regenerants. *CryoLetters* 42(5), 300-308.

- Neena Kumari, Ravinder Raina and Yash Pal Sharma. 2018. Interpopulation variations in morphochemical characteristics of *Stevia rebaudiana* Bertoni. *Turkish Journal of Botany* 42: 491-501.
- Yash Pal Sharma, Pancy Thakur and Chitra Bhardwaj. 2017. Chirayita (*Swertia chirayita*)-an important medicinal plant for economic cultivation in temperate Himalayas. *Indian Journal of Ecology* 44(6):798-803.
- Ravinder Raina, Joginder Singh, Romesh Chand and Yash Pal Sharma. 2005. Hypericin accumulation in glands of *Hypericum perforatum* Linn. *Current Science* 89(12): 1981-82
- Ravinder Raina, Prabhu Patil, Yash Pal Sharma and Romesh Chand Rana. 2013. Reproductive Biology of *Swertia chirayita*- A temperate critically endangered medicinal Plant. *Caryologia*. 66:12-20

## Awards and Recognitions

- Awarded **best presentation award** in **Phytochemistry** and **Crop improvement** session during XXVI Group meeting of the AICRP on Medicinal & Aromatic Plants and Betelvine held at AAU, Jorhat- Assam on September 28-30, 2018.
- 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. November 11-14, 2017.
- 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 May 17-18, 2002.
- Received **Certificate of Appreciation** from Vice Chancellor, YSPUHF Nauni, Solan for outstanding contribution in Medicinal & Aromatic Plants on June 12, 2019.
- **Expert member HP State Biodiversity Board Shimla**, Govt. of Himachal Pradesh.