

1. Faculty

Dr Rohit Sharma
Assistant Professor

Specialization: Organic Chemistry; Natural Product Chemistry
Contact: +91-1792-252495 (O)
Cell: 9596689777
E.mail: rohitsharma@uhf.ac.in; rohitchemistiim@gmail.com.

Passport
size
Photo
With
light
background

Ongoing Research Projects

- Empowering the Kinnauras Schedule Tribe Community of Himachal Pradesh through Valorization of Himalayan Medicinal and Aromatic plants funded by Department of Science and Technology for ₹ 54.66 lakhs from Feb, 2026 to Feb. 2029. - **Principal Investigator**
- Pilot Project on Cultivation of Cannabis in Himachal Pradesh funded by Govt. of Himachal Pradesh for ₹ 307 lakhs from Nov., 2025 to Nov. 2026 - **Co-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 for ₹ 230.00 lakhs from July, 2025 to July, 2027 - **Co-Principal Investigator**
- Survey, Selection, Phytochemical Evaluation, Cytogenetical Characterization and Multi-location testing of harar (*Terminalia chebula* Retz) in India funded by National Medicinal Plant Board for ₹ 17.94 lakhs from Feb, 2022 to Feb. 2027- **Co-Principal Investigator**

Best 10 Research Papers

- Sharma, R., Thakur, V., Kumar, R., **Sharma, R.**, Goonta, A., & Kumari, A. 2026. Assessment of xylem anatomical and chemical characteristics in Borehole tapped *Pinus roxburghii* wood: effect of diameter class and sampling height. *Wood Material Science & Engineering*, 1-12.
- Rani, A., Sharma, Y. P., Guleria, G., Bhardwaj, C., & **Sharma, R.** 2026. Isolation, characterisation, extraction optimization, and kinetics of spilanthol from *Spilanthes acmella* using ultrasound-assisted extraction. *Microchemical Journal*, 222, 117187.
- Sharma, R., **Sharma, R.**, Thakur, V., Randhawa, A., Kumar, R., Dutt, B., Chaudhary, A., & Kumar, S. 2025. Insights into Pinus species: phytochemistry, pharmacology and industrial potential of Indian Pinus species. *Phytochemistry Reviews*, 24(6), 5255-5285.
- Sharma, A., Sharma, K., Thakur, M., Kumar, S., **Sharma, R.**, & Kumar, A. 2025. Aonla based agroforestry system-Ecologically and economically viable option for farmers in subtropical conditions of Himachal Pradesh, India. *Environment, Development and Sustainability*, 1-23.
- Rani, A., Guleria, M., Sharma, Y., Sharma, S., Chaudhary, A., **Sharma, R.**, & Kumar, P. (2023). Insights into elicitor's role in augmenting secondary metabolites production and climate resilience in genus *Ocimum*—A globally

important medicinal and aromatic crop. *Industrial Crops and Products*, 202, 117078.

- Sharma, Y. P., Bhardwaj, C., Sharma, R., Thakur, P., & **Sharma, R.** 2023. A new RP-HPLC method for simultaneous determination of amaroswerin, amarogentin and andrographolide in a herbal drug "Chirayata". *Journal of Chromatographic Science*, 61(2), 172-176.
- **Sharma, R.**, Sofi, F. A., Rana, P., & Bharatam, P. V. 2019. Bimetallic Cu–Mn B spinel oxide catalyzed oxidative synthesis of 1,2-disubstituted benzimidazoles from benzyl bromides. *New Journal of Chemistry*, 43(10), 4013-4016.
- **Sharma, R.**, Abdullaha, M., & Bharate, S. B. 2017. Metal-free ionic-liquid-mediated synthesis of benzimidazoles and quinazolin-4(3*H*)-ones from benzylamines. *Asian Journal of Organic Chemistry*, 6(10), 1370-1374.
- **Sharma, R.**, Abdullaha, M., & Bharate, S. B. 2017. Oxidant-controlled C-sp²/sp³-H cross-dehydrogenative coupling of *N*-Heterocycles with benzylamines. *The Journal of Organic Chemistry*, 82(18), 9786-9793.
- **Sharma, R.**, Patel, N., Vishwakarma, R. A., Bharatam, P. V., & Bharate, S. B. 2016. Metal-free oxidative cyclization of acetophenones with diamines: a facile access to phenylpyridines. *Chemical Communications*, 52(5), 1009-1012.
- **Sharma, R.**, Vishwakarma, R. A., & Bharate, S. B. 2016. Ligand-free copper-manganese spinel oxide catalyzed tandem one pot C–H amidation and *N*-arylation of benzylamines: A facile access to 2, arylquinazolin-4 (3*H*)ones. *Advanced Synthesis & Catalysis*, 358(19), 3027-3033.

Awards & Recognitions

- SERB-SIRE Fellowship (SERB, DST, 2022)
- Marie Curie Seal of Excellence (European Union, 2020)
- Dr D.S. Kothari Postdoc Fellowship (University Grants Commission, New Delhi, 2019)
- Thomas Mitchell Medal of Excellence (Irish Research Council, Ireland, 2018)
- Government of Ireland Postdoc Research Fellowship (Irish Research Council, Ireland, 2018)
- Endowed Fellowship (University of Ottawa Heart Institute, Canada, 2018)
- National Post Doc Fellowship (SERB, 2017)
- Inspire Fellowship (DST, New Delhi, 2011)
- Best Teacher Award (Chandigarh Group of Colleges, 2011)
- Gold Medal (Punjabi University, Patiala, 2009)
- Swami Vivekanand Utkrisht Chhatervritti Yagna (HPBOSE, Dharmshala, 2002)