

Dr. Reena Sharma
Scientist (Phytochemistry)

Specialization: Natural Product Chemistry, Metabolomics of Medicinal and Aromatic Plants.

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Ongoing Research Projects

- ICAR- All India Co-ordinated Research Project on Medicinal & Aromatic Plants, Betelvine (Co-Principal Investigator).

Important Research Publications

- 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 Sciences* **61**:172-176.
- Sharma D, Sharma R, Chand D and Chaudhary A. 2022. Nanocatalysts as potential candidates in transforming CO₂ into valuable fuels and chemicals. A review. *Environmental Nanotechnology Monitoring & Management* **18**:100671.
- Sharma R, Shachter A, Almog L, Oren G, Toshner HR and Dudai N. 2021. Genetic chemical variability of the volatiles and phenolic compounds in *Clinopodium serpyllifolium* subsp. *fruticosum* (L.) Bräuchler syn. *Micromeria fruticosa* (L.) Druce grown in Israel. *Israel Journal of Plant Sciences* 1-9.
- Ben-Gera H, Mashraki KB, Sharma R, Shachter A, Chaimovitsh D, Gonda I, Nitzan N and Dudai N. 2020. Chemo-geographic variations in wild population of *Asteriscus graveolens* in Israel based on volatile composition analyses. *Chemistry & Biodiversity* **17**: 2000311.
- Sharma R, Mohammadi-Ostad-Kalayeh S, Stahl F, Zeilinger C, Dräger G and Ravikumar PC. 2017. Two new labdane diterpenoids and one new β lactam from the aerial parts of *Roylea cinerea*. *Phytochemistry Letters* **19**:101-107.
- Sharma R, Yadav D, Asif M, Jayasri MA, Agnihotri VK and Ravikumar PC. 2017. Antioxidant and anti diabetic activity of different solvent extracts of *Roylea cinerea*. *Indian Journal of Experimental Biology* **55**:611-621.
- Bahuguna A, Sharma R, Sagara PS and Ravikumar PC. 2017. Exploration of aberrant behaviour of Grignard reagents with Indole-3-carboxaldehyde: Application to the synthesis of Turbomycin B and Vibrindole A derivatives. *Synlett* **28**:117-121.
- Sharma R, Chebolu R and Ravikumar, PC. 2017. Isolation and structural elucidation of two new labdane diterpenoids from the aerial part of *Roylea cinerea*. *Phytochemistry Letters* **13**:187-193.
- Chebolu R, Bahuguna A, Sharma R and Mishra, VM. 2015. An unusual chemoselective oxidation strategy by an unprecedented exploration of an electrophilic center of DMSO: a new facet to classical DMSO oxidation. *Chemical Communications* **51**:15438-15441.

Awards & Recognitions

- Postdoctoral Fellowship from State of Israel/Ministry of Agriculture, Agriculture Research Organization (ARO) Volcani Center (2019)

- DAAD Fellowship for 3 months (Oct. 2015-Dec. 2015) at Leibniz University, Hannover, Germany (2015)
- Recipient of Mukhya Mantri Protsaha Yojna scholarship during Ph.D. at IIT Mandi (2013)
- Research Fellowship from IIT Mandi/DST, Govt of India (2012)
- Recipient of Swami Vivekanand Utkrisht Chhatervritti Yojna HPBSE, Dharmshala (2002)