

Research Paper Publications by Faculty Members (Past 5 years):

Rupali P. Shirsat (2023) Identification of a new compound Hederacine- B from the Chloroform extract of *Leonotis nepetifolia* Leaves. *Indian Journal of Pure and Applied Biosciences*, 10(6): 40-44.

Tripty Jagtap, **Rupali Shirsat** and Deepak Koche (2022) Adapting changing ecological and environmental conditions: a theoretical case study of genus *Ruellia*. *Vidyabharati International Interdisciplinary Research Journal*, Special Issue: 1093-1097.

Ruchita R. Gandhi, Neha P. Kopare, Shubham A. Rathod, **Rupali P. Shirsat** and Deepak K. Koche (2022) Physico-chemical, Fluorescent, and Phytochemical analysis of *Anisochilus carnosus* (L.f.) Wall: a Lamiaceae herb from Maharashtra, India. *Indian Journal of Applied and Pure Biology*, 37 (2): 1-12.

P. R. Gulhane (2022) Estimation of phenolic compounds from *Argyrea nervosa* Burm.F. (Samudrasoka). *Vidyabharti International Interdisciplinary Research Journal*. Special Issue: 1482-1486.

R.B. Kalbande (2021) Study of Vegetative Morphology of Melghat Trees by using Digital Photographic Method as an integrated tool for species Identification. *Research Journey*. Special Issue: 170-176.

Ruchita Gandhi, Tripty Jagtap, Neha Kopare, **Rupali Shirsat**, Deepak Koche (2021) Nutritional profiling of wild areal tubers of *Dioscorea bulbifera* L. from Maharashtra, India. *International Journal of Botany Studies* 6(5): 458-462.

Deepak Koche, Ruchita Gandhi, Shubham Rathod, and **Rupali Shirsat** (2021) An update on role of salicylic acid (SA) in abiotic stress tolerance in crop plants: A review. *Agricultural and Biological Research*, 37 (6): 2019- 225.

P. R. Gulhane (2021) Estimation of phenolic compounds and some pigments from *Hibiscus sabdariffa* L. *Journal of Global Biosciences*, **10(11)**: 9117-9127.

Rupali P. Shirsat and Deepak K. Koche (2020) A Report on Wild Edible Fruits Used by the Tribal Communities Inhabiting Near Katepurna Wildlife Sanctuary, Maharashtra, India. *Bioscience Biotechnology Research Communications*. 13(2): 975- 980.

Rupali P. Shirsat, Syed Imran, Deepak K. Koche (2020) A report on identification of a unique hygrine like compound from chloroform extract of *Anisochilus carnosus* (L.f.) Wall Drug Discovery, 14(36): 130-134.

P. R. Gulhane(2020) Dioscorea bulbifera : a review of its phytochemical analysis of phenolics & pigments by spectrophotometric method. Aayushi International Interdisciplinary Research Journal

Ranjan B. Kalbande (2019) Converting taxonomic description into electron data as biodiversity information by applying database management system. *AJANTA*, Special Issue Part- II: 9-16.

A.P. Shirsat, P. S. Kokate and **R. P. Shirsat** (2019) Indian medicinal plants with potential antioxidant and anticancer properties: An insight. *European Journal of Biotechnology and Bioscience*. 7(1): 47-51.

Ashwini Shirsat, **Rupali Shirsat**, Pratiksha Kokate and Deepak Koche (2019) Preliminary Phytochemical observations of *Tinospora cordifolia* (Willd) Miers. *Research Journey*, Special issue: 160-165.

Jaishri M. Jasutkar, **Rupali P. Shirsat**, Deepak K. (2018) Koche Pharmacognostic Study, Chemical Analysis and Antioxidant Potential of *Leucas indica* L. (R. Br.) *Herbal Drugs*, 9(1): 01-05.

Rupali Shirsat, Syed Imran and Deepak Koche (2018) HPLC analysis of methanolic extract of aerial parts of *Leontodon petifolia* (L.) R. Br. *International Journal of Researches in Bioscience, Agriculture and Technology*, 6(3): 76-78.

Rupali Shirsat and Deepak Koche (2017) Diversity and economic importance of tree species in Narnala Wildlife Sanctuary, (Maharashtra). *An international study of Botany Research*, 2(4) 68-70.

R.P. Shirsat and S. S. Suradkar (2017) Macroscopic, phytochemical and fluorescent analysis of *Colebrookea oppositifolia* Smith. *International Journal of Applied Research*. Special Issue, 288-89.

Dipak Koche, **Rupali Shirsat** and Mahesh Kawale (2016) An overview of Major classes of phytochemicals and their types and role in Disease prevention. *Hisploia*, 9(1/2) : 1-11.

R. P. Shirsat, S. S. Suradkar and D. K. Koche (2015) Phytochemical composition and Pharmacological aspects of *Salvia plebeia* R. Br.: A mini review. *Indian Journal of Applied Research*, 5(8): 1-5.

Book Chapter / Books Published by Faculty Members (Past 5 Years):

R. P. Shirsat (2021) MCQs in Botany for B. Sc. I Semester- I, Dnyanpath Publication Amravati.

R. B. Kalbande (2020) Monitoring potentially important data of vegetation spot by using GIS and GPS technology as tool, in Current updates in Life Science, Eds. Koche D. K. and Kokate P. S., Pt. Jawaharlal Nehru Study Center, SSC Akola, pp. 257- 260.

R. B. Kalbande(2020) Diversity digitized - digital plant images as specimen by applying web technology, in Current updates in Life Science, Eds. Koche D. K. and Kokate P. S., Pt. Jawaharlal Nehru Study Center, SSC Akola, pp. 261- 266.

R. P. Shirsat (2020) Pharmacognosy, fluorescence study, phytochemistry and antioxidant activity of *Leucas stricta* Wall. Ex. Benth. in Current updates in Life Science, Eds. Koche D. K. and Kokate P. S., Pt. Jawaharlal Nehru Study Center, SSC Akola, pp. 274- 282.

R. P. Shirsat (2018) Text Book of Botany, B. Sc. II Semester- IV ,Dnyanpath Publication Amravati.

P. R. Gulhane(2020)Estimation of Chlorophyll content from some medicinal plants. In recent advances in Science and Technology Research.