

**Manoj M. Lekhak**  
**Born on 24<sup>th</sup> September 1984**

Department of Botany  
Shivaji University, Kolhapur  
Maharashtra 416004  
Phone: (0231) 260-9155  
Mobile: 80079 34264  
Email: [mml\\_botany@unishivaji.ac.in](mailto:mml_botany@unishivaji.ac.in)



## **Employment**

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Assistant Professor

- Department of Botany, Shivaji University December 2010 – Present

## **Education**

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Ph.D. in Botany, Shivaji University, Kolhapur	April 2013
M.Sc. in Botany, University of Delhi, Delhi	June 2007
B.Sc. (Hons.) in Botany, Kirori Mal College, University of Delhi, Delhi	June 2005

## **Research Interests**

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Systematics: Bulbous/cormatous monocots (*Crinum*, *Dipcadi*, *Drimia*, *Iphigenia*)

Cytotaxonomy: Western Ghats endemics, bulbous/tuberous monocots, *Barleria* and *Ledebouria*

## **Ph.D. Dissertation**

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“Floristic studies on herbaceous elements of plateaus in south-western Maharashtra”

- Supervisor: S. R. Yadav
- Area: Angiosperm Taxonomy

## **Publications**

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1. S. K. gavade and **M. M. Lekhak**. 2023. An Additional Record of *Cosmos caudatus* Kunth (Asteraceae) in Maharashtra, India. *Journal of the Bombay Natural History Society* 120
2. B. K. Bhowmick, S. Sarkar, D. Roychowdhury, S. D. Patil, **M. M. Lekhak**, D. Ohri, S. R. Rao. S. R. Yadav, R. C. Verma, M. K. Dhar, S. N. Raina, S. Jha. 2023. Allium cytogenetics: a critical review on the Indian taxa, *Comparative Cytogenetics* 17:129–156
3. P. V. Deshmukh, S. R. Yadav and **M. M. Lekhak**. 2023. Karyomorphological study in *Ledebouria botryoides* (Asparagaceae), *Cytologia* 88 (1): 15–19.
4. **M. M. Lekhak**. 2023. Typification of Linnaean *Barleria* (Acanthaceae) binomials based on Indian material, *Taxon* 1–6. <https://doi.org/10.1002/tax.12886>
5. S. K. Gavade and **M. M. Lekhak**. 2023. What is the botanical identity of Soh-Phlong? *Journal of Economic and Taxonomic Botany* 46(3&4): 72–78.
6. S. S. Kadam, R. N. Mane, A. S. Tamboli, S. K. Gavde, P. V. Deshmukh, **M. M. Lekhak**, Y. Choo and J. H. Pak. 2023. Cytogenetics, typification, molecular phylogeny and biogeography of *Bentinckia* (Arecoideae, Arecaceae), an unplaced Indian endemic palm from Areceae. *Biology* 12(2): 233
7. R. N. Chougule, S. R. Yadav and **M. M. Lekhak**. 2022. Leaf anatomical studies in Indian

- Aponogetonaceae. *Phytomorphology* 72 (3 & 4):41–54.
8. H. Kaur, S. Chahal, **M. M. Lekhak**, P. Jha, S. J. Ochatt and V. Kumar. 2022. Meta-topolin induced in vitro regeneration in *Crinum brachynema* (Amaryllidaceae): a critically endangered and endemic medicinal plant of India. *Plant Cell, Tissue and Organ Culture* 151: 663–672.
  9. S. S. Patil, P. V. Deshmukh and **M. M. Lekhak**. 2022. Typification of some names in Indian Barleria L. (Acanthaceae). *Phytotaxa* 547 (3): 285–294
  10. S. Nath, S. Sarkar, S. D. Patil, P. S. Saha, **M. M. Lekhak**, S. Ray, S. R. Rao, S. R. Yadav, R. C. Verma, M. K. Dhar, S. N. Raina and S. Jha. 2022. Cytogenetic Diversity in Scilloideae (Asparagaceae): a Comprehensive recollection and exploration of karyo-evolutionary Trends. *The Botanical Review* <https://doi.org/10.1007/s12229-022-09279-1>
  11. S. B. Patel, S. S. Otari, V. Kumar, A. Rastogi, **M. M. Lekhak** and S.G. Ghane. 2022. Optimization of lycorine using Response Surface Methodology, extraction methods and in vitro antioxidant and anti-diabetic activities from the roots of Giant Spider Lily: A medicinally important bulbous herb. *South African Journal of Botany* 149: 816–827
  12. P. V. Deshmukh, **M. M. Lekhak** and S. R. Yadav. 2022. Leaf morphology and cuticular studies in *Lebedouria revoluta* (L.f.) Jessop (Asparagaceae) in India. *The Journal of Indian Botanical Society*. 102 (2): 103–112
  13. R. N. Mane, J. V. Dalavi, **M. M. Lekhak** and S. R. Yadav. *Eriocaulon ramnadense* R.Ansari & N.P.Balkr. (Family - Eriocaulaceae)- a new record for Maharashtra. *Journal of the Bombay Natural History Society* 118
  14. H. Singh, D. Singh and **M. M. Lekhak**. 2022. Ethnobotany, botany, phytochemistry and ethnopharmacology of the genus *Thalictrum* L. (Ranunculaceae): A review. *Journal of Ethnopharmacology* 305: 115950
  15. H. Kaur, S. Sena, P. Jha, **M. M. Lekhak**, S. K. Singh, U. Goutam, A. D. Arencibia and V. Kumar. 2022. *Arundina graminifolia* (D. Don) Hochr. (Orchidaceae): A review of its medicinal importance, phytochemistry and pharmacology activities. *South African Journal of Botany* 150: 956–964.
  16. A. S. Tamboli, S. S. Patil, S. K. Kadam, Y. S. Choo, **M. M. Lekhak** and J. H. Pak. 2022. Morphology, palynology and molecular phylogeny of *Barleria cristata* L. (Acanthaceae) morphotypes from India. *Diversity*. 14 (8): 677
  17. P. E. Shelke, S. R. Yadav and **M. M. Lekhak**. 2022. Lectotypification of the name *Dipcadi erythraeum* Webb & Berthel. (Asparagaceae). *Phytotaxa* 552 (4): 274–276
  18. **M. M. Lekhak**, S. S Patil, P. V Deshmukh, U. M. Lekhak, V. Kumar and A. Rastogi. 2022. Genus *Barleria* L. (Acanthaceae): a review of its taxonomy, cytogenetics, phytochemistry and pharmacological potential, *Journal of Pharmacy and Pharmacology*, rgab183, <https://doi.org/10.1093/jpp/rgab183>
  19. R.N. Chougule, S. Surveswaran, S. R. Yadav and **M. M. Lekhak**. 2022. Medicinal potential of the Cape-pondweed family (Aponogetonaceae): A review. *South African Journal of Botany*, <https://doi.org/10.1016/j.sajb.2022.01.023>
  20. S. Surveswaran, N. Tiwari, P. K Karanth, P. V. Deshmukh and **M. M. Lekhak**. 2022. Molecular phylogenetics and character evolution in *Haplanthodes* (Acanthaceae), an endemic genus from peninsular India. *Nordic Journal of Botany*, 4: 1–14 <https://doi.org/10.1111/njb.03238>
  21. H. Kaur, S. Chahal, P. Jha, **M. M. Lekhak**, M. S. Shekhawat, D. Naidoo, A. D. Arencibia, S. J. Ochatt and V. Kumar. 2022. Harnessing plant biotechnology-based strategies for in vitro galanthamine (GAL) biosynthesis: a potent drug against Alzheimer's disease. *Plant Cell, Tissue and Organ Culture* <https://doi.org/10.1007/s11240-022-02229-0>
  22. S. Chahal, H. Kaur, **M. M. Lekhak**, M. S. Shekhawat, U. Goutam, S. K. Singh, S. J. Ochatt and V. Kumar. 2022. Meta-topolin-mediated regeneration and accumulation of phenolic acids in the critically endangered medicinal plant *Crinum malabaricum* (Amaryllidaceae): A potent source of galanthamine, *South African Journal of Botany* <https://doi.org/10.1016/j.sajb.2022.01.016>
  23. K. S Rajput, S. R. Dayatar, **M. M. Lekhak** and A. D. Gondaliya. 2021. Petiole anatomy of some species of *Bauhinia* L. sensu lato (Leguminosae Juss.) occurring in India. *Nordic Journal of Botany*, 1–15 <https://doi.org/10.1111/njb.03303>
  24. P. V. Deshmukh, S. Surveswaran, R. D. Gore and **M. M. Lekhak**. 2021. Taxonomic studies in the genus *Haplanthodes* (Acanthaceae). *Phytotaxa* 516(3): 201-222.
  25. **M. M. Lekhak**, S. B. Patel, S. S. Otari, U. M. Lekhak and S. G. Ghane. 2021. Bioactive potential and RP-HPLC detection of phenolics and alkaloids (lycorine and galanthamine) from ultrasonic-assisted extracts of *Crinum* roots *South African Journal of Botany*, <https://doi.org/10.1016/j.sajb.2021.07.024>
  26. P. B. Yadav, U. M. Lekhak, S. G. Ghane and **M. M. Lekhak**. 2021. Phytochemicals, antioxidants, estimation of cardiac glycoside (Scillaren A) and detection of major metabolites using LC-MS from *Drimia* species. *South African Journal of Botany* 140, 259-268.

27. K. D. Thacker, S. K. Gavade, **M. M. Lekhak**, A. D. Gondaliya and K. S. Rajput. 2021. Comparison of petiole anatomy in *Flemingia* and its potential for delimitation of species. *Flora* 278, 151790.
28. P. B. Yadav, K.V. Bhat, S. R. Yadav and **M.M. Lekhak**. 2021. Confirmation of an interspecific hybrid of *Drimia* based on mitotic, stomatal and ISSR marker analyses. *Nucleus* 64, 123-128 (2021). <https://doi.org/10.1007/s13237-020-00317-0>
29. R. N. Mane, A. R. Gholave, **M. M. Lekhak** and S. R. Yadav 2021. Karyomorphological analysis of *Holigarna arnottiana* (Anacardiaceae): An endemic species from the Western Ghats, India. *Cytologia* 86 (1): 85-87.
30. R. N. Mane, **M. M. Lekhak** and S. R. Yadav. 2021. New chromosome counts in three *Eriocaulon* species from India. *Cytologia* 86 (1): 97-99.
31. R. N. Mane and **M. M. Lekhak**. 2021. Lectotypification of *Corypha taliera* Roxburgh and *Orania nicobarica* Kurz (Arecaceae). *Phytotaxa*, 489 (2): 236-239.
32. S. S. Otari, S. B. Patel, **M. M. Lekhak** and S. G. Ghane. 2021. Phytochemical studies on two Unexplored endemic medicinal plants of India, *Barleria terminalis* and *Calacanthus grandiflorus*. *Frontiers in Pharmacology* 12:817885. DOI: 10.3389/fphar.2021.817885.
33. R. Mane, K. M. Manudev, **M. Lekhak** and S. Yadav. 2021. Tuberiferous *Eriocaulon* L. (Eriocaulaceae) in India: An adaptive strategy for survival. *The Journal of Indian Botanical Society* 101(3): 239-244
34. H. Kaur, **M. M. Lekhak**, S. Chahal, U. Goutam, P. Jha, D. Naidoo, S. J. Ochatt and V. Kumar. 2020. *Nardostachys jatamansi* (D.Don) DC.: An invaluable and constantly dwindling resource of the Himalayas, *South African Journal of Botany* 135, 252-267.
35. S. Chahal, **M. M. Lekhak**, H. Kaur, M. S. Shekhawat, A. Dey, P. Jha, D. K. Pandey and V. Kumar. 2021. Unraveling the medicinal potential and conservation of Indian *Crinum* (Amaryllidaceae) species, *South African Journal of Botany* 136, 7-15.
36. S. S Patil, R. Ganesan, S. R. Yadav, **M. M. Lekhak**. 2020. Taxonomy of *Barleria morrisiana* E. Barnes & CEC Fisch.(Acanthaceae), A little-known Species of the Biligiri Ranganathaswamy Temple Tiger Reserve, Karnataka, India. *Current Science* 119(10): 1611-1612.
37. S. K. Gavade, L. J. G. van der Maesen, and **M. M. Lekhak**. 2020. Taxonomic revision of the genus *Flemingia* (Leguminosae: Papilionoideae) in India. *Webbia*, 75(2), 141-218. <https://doi.org/10.36253/jopt-8767>
38. S. K. Gavade, V. Nimbalkar, **M. Lekhak**, and M. Sardesai. 2020. Identity, occurrence and typification of *Sida angustifolia* (Malvaceae), a neglected species in India," *Annales Botanici Fennici* 57(4-6), 279-284. <https://doi.org/10.5735/085.057.0411>
39. A. R. Gholave, **M. M. Lekhak** and S. R. Yadav. 2019. Comparative karyological analysis of Indian *Amorphophallus* (Araceae). *Plant Biosystems-An International Journal Dealing with all Aspects of Plant Biology* 154(6): 806-813.
40. S. K. Gavade, S. Surveswaran, L.J.G. van der Maesen and **M.M. Lekhak**. 2019. Taxonomic revision and molecular phylogeny of *Flemingia* subgenus *Rhynchosioides* (Leguminosae). *Blumea-Biodiversity, Evolution and Biogeography of Plants* 64, 2019: 253 – 271.
41. R. N. Mane, **M.M. Lekhak** and S.R. Yadav. 2019. Lectotypification of *Areca dicksonii* Roxburgh (Arecaceae). *Phytotaxa* 401 (2), 146-148
42. S. S. Patil, A. S. Tamboli, S. R. Yadav and **M. M. Lekhak**. 2019. A new species of *Barleria* (Acanthaceae), its morphotaxonomy, cytogenetics and phylogenetic placement. *Plant Systematics and Evolution* 305 (10), 933-947
43. S. Jha, S. N. Raina, D. Ohri, R. C. Verma, M. K. Dhar, **M. M. Lekhak**, S. R. Yadav, N. Mahadev and R. R. Satyawada 2019. A new online database on genome-related information of Indian plants. *Plant Systematics and Evolution* 305 (9), 837-843
44. P. B. Yadav, J. C. Manning, S. R. Yadav and **M. M. Lekhak**. 2019. A cytotaxonomic revision of *Drimia* Jacq. (Hyacinthaceae: Urgineoideae) in India. *South African Journal of Botany* 123, 62-86
45. S. G. Ghane, U. A. Attar, P. B. Yadav and **M. M. Lekhak**. 2018. Antioxidant, anti-diabetic, acetylcholinesterase inhibitory potential and estimation of alkaloids (lycorine and galanthamine) from *Crinum* species: An important source of anticancer and anti-Alzheimer drug. *Industrial Crops and Products* 125, 168-177
46. **M. M. Lekhak**, P. B. Yadav, U. A. Attar, K. S. Rajput and S. G. Ghane. 2018. Cytopalynological studies in *Zanonia indica* (Cucurbitaceae), a monotypic genus. *The Nucleus* 61 (2), 105-109.
47. **M. M. Lekhak**, S. D. Patil, A. V. Kattee, P. B. Yadav, S. K. Gavade, S. G. Ghane, V. B. Shimpale and S. R. Yadav. 2018. Cytopalynological studies in some Convolvulaceae members from northern Western Ghats, India. *Caryologia* 71 (3), 263-271.
48. A. Gondaliya, **M. M. Lekhak**, S. R. Yadav and K. S. Rajput. 2018. Structure of secondary xylem and

- development of intraxylary phloem in *Beaumontia jerdoniana* (Apocynaceae). *Phyton-Annales Rei Botanicae* 57 (1-2), 79-90.
49. A. P. Tiwari, S. K. Gavade, **M. M. Lekhak** and J. K. Vaishya. 2018. Lectotypification of two names of Indian *Sehima* (Poaceae: Andropogoneae). *Phytotaxa* 349 (1), 95-98.
50. **M. M. Lekhak**, A. D. Gondaliya, S. R. Yadav and K. S. Rajput. 2018. Stem anatomy at various developmental stages of secondary growth in *Turbina corymbosa* (Convolvulaceae). *Plant Ecology and Evolution* 151(2): 219–230
51. A. P. Tiwari, M. Shaikh, S. K. Gavade, **M. M. Lekhak** and P. Sunojkumar. 2017. *Leucas pachmarhiensis* sp. nov. (Lamioideae; Lamiaceae) from Central India. *Nordic Journal of Botany*. 36 (4), njb-01636.
52. V.S. Patil, A.R. Gholave, A.N. Chandore, U.S., Yadav, S.S. Kambale, **M.M. Lekhak**, R.R. Kolte and S.R. Yadav. 2017. *Aponogeton nateshii* SR Yadav (Aponogetonaceae), eine ungewöhnliche, neue Art aus Indien [*Aponogeton nateshii* SR Yadav (Aponogetonaceae), an unusual, new species from India]. *Aqua Planta*.
53. K. S. Rajput, A.D. Gondaliya, **M. M. Lekhak** and S. R. Yadav. 2017. Structure and ontogeny of intraxylary secondary xylem and phloem development by the internal vascular cambium in *Campsis radicans* (L.) Seem. (Bignoniaceae). *Journal of Plant Growth Regulation*. 37: 755–767 <https://doi.org/10.1007/s00344-017-9771-x>
54. S. D. Umdale, P. R. Kshirsagar, **M. M. Lekhak**, and N. B. Gaikwad. 2017. Molecular authentication of the traditional medicinal plant "Lakshman Booti" (*Smithia conferta* Sm.) and its adulterants through DNA barcoding. *Pharmacognosy Magazine* 13(50): S224-S229.
55. S. K. Gavade, L.J.G. van der Maesen and **M. M. Lekhak**. 2017. *Flemingia sootepensis* (Leguminosae): its occurrence in India, notes on identity and typification. *Phytotaxa* 328(3): 283–290.
56. **M. M. Lekhak** and S. R. Yadav. 2017. *Rotala pseudojuniperina* sp. nov. (Lythraceae) from India. *Nordic Journal of Botany* 35: 432-435.
57. K. S. Rajput, **M. M. Lekhak**, K. K. Kapadane and S. R. Yadav. 2017. Formation of trilobed stem and successive cambia in the stems of *Argyreia hookeri* C. B. Clarke (Convolvulaceae). *Flora* 233: 140-149.
58. P. B. Yadav, **M.M. Lekhak** and S. R. Yadav. 2017. Typifications in *Drimia* with notes on the identity of *D. wightii* (Asparagaceae, Scilloideae). *Phytotaxa* 289 (3): 256-262.
59. A. N. Chandore, D. B. Borude, V. I. Kahalkar and **M. M. Lekhak**. 2016. Eleocharis Khandwaensis (family cyperaceae): A new record for Maharashtra, India. *Journal of the Bombay Natural History Society*. 113: 50–52.
60. S. K. Gavade, M. D. Nandikar, V. B. Shimpale, and **M. M. Lekhak**. 2016. A new location for a rare legume *Flemingia rollae* (family Fabaceae) and notes on its typification. *Journal of the Bombay Natural History Society*. 113: 48–49.
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62. G. M. Tambde, V. V. Nimbalkar, **M. M. Lekha** and M. M. Sardesai 2016. *Sida pradeepiana* sp. nov. (Malvaceae) from India. *Nordic Journal of Botany* 35: 34(5): 573-577.
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64. A. P. Tiwari, S. Gavade, **M. Lekhak**. 2016. Lectotypification of *Ischaemum molle* (Andropogoneae, Poaceae). *Phytotaxa* 272 (3): 228-230.
65. H. S. Joshi, P. B. Yadav, **M. M. Lekhak** and S. R. Yadav. 2016. Cytogenetics of two endemic *Barleria* species (Acanthaceae) from the northern Western Ghats (India). *Caryologia* <http://dx.doi.org/10.1080/00087114.2016.1152111>.
66. A. R. Gholave, S. S. Kambale, **M. M. Lekhak** and S. R. Yadav. 2015. *Combretum shivannae* (Combretaceae), a new species from India. *Kew Bulletin* 70 (3)-33:1-5.
67. S. Patil, P. Lakshminarasimhan, **M. M. Lekhak** and A. Pandey. 2015. Neotypification of *Pancratium sanctae-mariae* (Amaryllidaceae). *Phytotaxa* 224 (2): 199–200.
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69. \***M. M. Lekhak**, S. Surveswaran and S. R. Yadav. 2015. Generic identity of *Camptorrhiza indica* (Colchicaceae) based on cytogenetics and molecular phylogenetics. *Journal of Systematics and Evolution* 54 (1): 75-82.
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- from India. *Webbia: Journal of Plant Taxonomy and Geography* 70 (1): 103-107.
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  76. \***M. M. Lekhak**, S. S. Kambale and S. R. Yadav. 2014. A new *Piper* from the northern Western Ghats and notes on economic potential of *Piper* section *Muldera*. *Genetic Resources and Crop Evolution* 61: 1057-1063.
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  81. **M. M. Lekhak**, A. N. Chandore and S.R. Yadav. 2011. *Juncus bufonius* L. An addition to the flora of Maharashtra, India. *Journal of Bombay Natural History Society*, 108(1): 68-69.
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## Book chapters

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2. **M. M. Lekhak**, P. B. Yadav and S. R. Yadav. 2017. Cytogenetic studies in Indian *Drimia* Jacq. (Urgineoideae: Hyacinthaceae). In: T. A. Bhat, A. A. Wani (eds.), Chromosome Structure and Aberrations, Springer, India DOI 10.1007/978-81-322-3673-3\_7.141-165.
3. **M. M. Lekhak**, S. S. Patil and U. M. Lekhak. 2021. *Iphigenia* (Family: Colchicaceae): A Genus That Needs Pharmacological Attention.
4. S. S. Otari, S. B. Patel, **M. M. Lekhak**, S. G. Ghane. 2022. Phytoconstituents and Therapeutic Potential of *Barleria prionitis* L. (Family: Acanthaceae). Bioactives and Pharmacology of Medicinal Plants Volume 2 (Apple Academic Press, Inc. Co-published with CRC Press (Taylor &

- Francis).
5. **M. M. Lekhak**, S. S. Otari, S. S. Patel, S. G. Ghane. 2022. The Medicinal Potential of Broad-Leaved *Crinum* (*C. Latifolium* L., Family: Amaryllidaceae). Bioactives and Pharmacology of Medicinal Plants Volume 2 (Apple Academic Press, Inc. Co-published with CRC Press (Taylor & Francis).
  6. S. K. Gavade and **M. M. Lekhak**. 2023. Bioactives and Pharmacology of *Flemingia strobilifera* (L.). W.T.Aiton. Bioactives and Pharmacology of Legumes (Apple Academic Press, Inc. Co-published with CRC Press (Taylor & Francis).
  7. S. K. Gavade and **M. M. Lekhak**. 2023. Biomolecules and Pharmacology of *Flemingia vestita* Benth. Ex Baker. Bioactives and Pharmacology of Legumes (Apple Academic Press, Inc. Co-published with CRC Press (Taylor & Francis).

## Ph.D. Supervision

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Sr. No.	Student	Thesis title	Status
1.	Mr. S.K. Gavade	Taxonomic revision of the genus <i>Flemingia</i> in India	Awarded (2019)
2.	Miss. P.B. Yadav	Systematic studies on the genus <i>Drimia</i> (Hyacinthaceae: Urgineoideae) in India	Awarded (2019)
3.	Mr. R.N. Mane	Studies in Wild Palms of India	Awarded (2021)
4.	Mr. S.S. Patil	Morphotaxonomy and cytogenetics of <i>Barleria</i> (Acanthaceae)	Awarded (2022)
5.	Mr. P.V. Deshmukh	Biosystematics of <i>Ledebouria</i> (Hyacinthaceae)	ongoing
6.	Miss. R.N. Chougule	Studies on Aponogeton species in India	ongoing
7.	Miss. P.E. Shelke	Taxonomic revision and karyosystematics of <i>Dipcadi</i> species in India	ongoing
8.	Miss. A.S. Jeswani	Taxonomic revision and molecular studies in the genus <i>Senecio</i> in India	ongoing

## Honors, Fellowships, Grants, and Awards

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Y.S. Murty Medal Award, Indian Botanical Society (IBS)	2022
Establishment of Young Researcher Fellowship Programme 2018-2019 (INSA-JSPS)	2019
Start Up Research Grant (Young Scientists), SERB	2014 – 2017
Extramural Research Grant, CSIR	2015 – 2018
Prof. M. Sabu Award and Fellow, IAAT (IAAT, Calicut)	2014
Member, Maharashtra State Biodiversity Board (MSBB)	2013 – 2016
Minor Research Project, UGC	2013 – 2016

## Skills

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Computer: Operating systems (Windows and MacOS), Office suites (Microsoft Office, Libre office), Photoshop

Languages: English, Hindi, Marathi

## References

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S. R. Yadav  
Shivaji University, Kolhapur  
[sryadavdu@rediffmail.com](mailto:sryadavdu@rediffmail.com)

Y. Mukai  
Osaka Kyoiku University, Osaka (Japan)  
[ymukai@cc.osaka-kyoiku.ac.jp](mailto:ymukai@cc.osaka-kyoiku.ac.jp)

U. C. Lavania  
Lucknow University, Lucknow  
[lavaniauc@yahoo.co.in](mailto:lavaniauc@yahoo.co.in)

S. Jha  
University of Calcutta, Kolkata  
[sumitajha.cu@gmail.com](mailto:sumitajha.cu@gmail.com)