

Dr. Suraj D. Umdale

Assistant Professor
Department of Botany,
Jaysingpur College, Jaysingpur
(Affiliated to Shivaji University)
Kolhapur-416 101,
Maharashtra, INDIA

❖ **Personal Details**

Residential address	:	Plot No. 11/2, Vibhute Housing Society, Jaysingpur, Tal: Shirol, Dist: Kolhapur Maharashtra - 416 101, MS, India
Permanent address	:	At/Po: Jainwadi, Tal: Pandharpur, Dist: Solapur - 413310, MS, India.
Contact	:	Phone No. (Mob.) +918806323229
Email	:	surajdumdale@gmail.com sdumdale@jaysingpurcollege.edu.in
Date of Birth	:	15 th January, 1986

❖ **Educational Qualifications:**

Sr. No.	Institutional Place	Class/Degree	Subjects	Month, Year	Percentage, Class
1	Shivaji University, Kolhapur and National Bureau of Plant Genetic Resources (NBPGR), New Delhi	Ph.D.*	Botany , Plant taxonomy, Molecular phylogeny, Plant breeding	March, 2016	---
2	Shivaji University, Kolhapur	M.Sc.	Botany , Cytogenetics & Plant Breeding	June, 2008	70.71 % , 1 st class with Distinction
3	Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur, Shivaji University, Kolhapur	B.Sc.	Botany , Subsidiary: Zoology & Chemistry	May, 2006	75.48 % , 1 st class with Distinction (B.Sc.III-87.17%)
4	Rayat Shikshan Sanstha's New English School and Junior College of Science, Bhalwani,	Higher Secondary (HSC)	Physics, Chemistry, Biology, Animal Science	February 2003	68.17% First Class
5	Rayat Shikshan Sanstha's New English School and Junior College of Science, Bhalwani,	Secondary School (SSC)	---	March 2001	70.53% First Class

Ph. D.*“Micromorphological and molecular studies in Asiatic *Vigna* species”****Date of Registration:** 1st July, 2010**Date of Declaration:** 8th March, 2016**Guide:** Dr. N. B. Gaikwad

Professor, Department of Botany, Shivaji University, Kolhapur, Maharashtra

Co-Guide: Dr. K. V. Bhat

Principle Scientist, Division of Genomic Resources, National Bureau of Plant Genetic Resources (NBPGR), New Delhi

❖ Award/Fellowship/Scholarships:

Sr. No.	Name of Fellowship	Duration/Year	Institute/ Organization
1	Faculty Achievement Award	2016	Rayat Shikshan Sanstha's, Yashavantrao Chavan Institute of Science, Satara
2	Ekalavya Merit Scholarship	2006-07, 2007-08	Shivaji University, Kolhapur

❖ Research Experience: [06 years]

Sr. No.	Name of Fellowship	Funding agency	Duration	Institute/University
1	Senior Research Fellow (SRF)	Indian Council of Agricultural Research (ICAR) through National Agricultural Innovation Project (NAIP) (Component-4, sub-project Code: 4143)	18/08/2008- 31/07/2014 (06 Years)	Division of Genomic Resources (NRC on DNA Fingerprinting), National Bureau of Plant Genetic Resources (NBPGR), New Delhi

❖ Teaching Experience:

Sr. No.	Class	Institute/University	Duration	Nature of Appointment
1	UG (Botany)	Jaysingpur College, Jaysingpur	Date of Joining 03/05/2020	Assistant Professor (Full Time)
2	UG & PG (Botany)	Yashavantrao Chavan Institute of Science, Satara	21/06/2015 to 18/02/2020	Assistant Professor (CHB)

❖ Projects (Institutional/Minor/Major): [02]

Sr. No.	Title of Project	Funding Agency	Institutional/ Minor/ Major	Duration	Amount Sanctioned
1	Biochemical Characterization and Nutritional Potential of wild Legumes (CWR)	RAC, Y.C.I.S, Satara, Financial Assistance for research Project (RSS/YCIS/RAC/14)	Institutional	2018-19 (Completed)	30,000.00
2	Phytochemical analysis and nutritional potential of wild, underutilized legumes (Crop Wild Relatives) of the Western Ghats of Maharashtra	RAC, Y.C.I.S, Satara, Financial Assistance to faculty for self funded Project (RSS/YCIS/RAC/5)	Institutional	2017-18 (Completed)	13,000.00

❖ **Members of Various Organizational Activities: [01]**

Sr. No.	Chairperson/ member	Portal	Organization
1	Member	CROP WILD RELATIVES PORTAL (pgrinformatics.nbpgr.ernet.in)	Indian Council of Agricultural Research (ICAR)-National Bureau of Plant genetic Resources (NBPGR), New Delhi

❖ **Research:**❖ **Citation indices: (Google Scholar updated on 01st Aug, 2021)**

- **Publications** : 27
- **Impact factor** : 35.367 (Ave. IF per Paper 1.375)

Sr. No.	Index	Articles	Citations	h-index	i-10 index
1	Researchgate	27	318	09	-
2	Google Scholar	27	368	10	11

a. Books published: [02]

1. S. R. Yadav, M. M. Aitawade, S. Sutar, K. V. Bhat, M. Latha, J. K. John, S. K. Malik, **S. Umdale** and S. R. Rao. (2014). "Genus *Vigna* Savi in India- an illustrated guide for species identification". National Bureau of Plant Genetic Resources (NBPGR), New Delhi; Shivaji University, Kolhapur and North Eastern Hill University, Shillong. 64p.
2. S. R. Yadav, K. V. Bhat, M. Latha, J. K. John, S. K. Malik, M. Aitawade, S. R. Rao. S. Scariah, M. Nisar, **S. Umdale**, P. Patil, G. Krishnan, R. Khedasana. (2014). "An illustrated guide for identification of *Vigna* Savi, *Cucumis* L. and *Abelmoschus* Medik. Species in India". National Bureau of Plant Genetic Resources (NBPGR), New Delhi; Shivaji University, Kolhapur and North Eastern Hill University, Shillong. 145p.

b. Book Chapters published: [04]

1. **Umdale SD**, Gaikwad NB, Ahire ML, Mundada PS & Bhat KV (2020) Interspecific hybridization among *Vigna mungo* (L.) Hepper (Black gram) and wild *Vigna* species. In: Tiwari AK (Ed.) Advances in seed production and management. Pp 343-357. <https://doi.org/10.1007/978-981-15-4198-8> Springer Nature Singapore Pte Ltd. (Print ISBN 978-981-15-4197-1; Online ISBN 978-981-15-4198-8)
2. Mundada PS, Kadam NS, Nikule HA, **Umdale SD**, Chavan JJ, Nikam TD, Ahire ML (2020) Seed micro-morphological characteristics in local landraces of finger millet (*Eleusine coracana* (L.) Gaertn.). In: Tiwari AK (Ed.) Advances in seed production and management. Pp 439-449. <https://doi.org/10.1007/978-981-15-4198-8> Springer Nature Singapore Pte Ltd. (Print ISBN 978-981-15-4197-1; Online ISBN 978-981-15-4198-8)
3. Mundada PS, **Umdale SD**, Ahire ML, Anil Kumar S, Nikam TD (2021) Transgenic finger millet [*Eleusine coracana* (L.) Gaertn.] for crop improvement. In: Kavi Kishor PB, Rajan MV, Pullaiah T (Eds.) Genetically modified crops: Current status, prospects and challenges (Volume I). <https://doi.org/10.1007/978-981-15-5897-9> Springer Nature Singapore Pte Ltd. (Print ISBN 978-981-15-5896-2; Online ISBN 978-981-15-5897-9)
4. Ruchi Vir, Suman Lakhanpaul, Sonal Malik, **Suraj Umdale** and Kangila Venkatramana Bhat (2016). Utilization of Germplasm for the Genetic Improvement of Mung bean [*Vigna radiata* (L.) Wilczek]: The Constraints and the Opportunities Vol. 1. In: Vijay R. Rajpal, S. Rama Rao and S. N. Raina (eds.) Gene Pool Diversity and Crop Improvement Vol. 1, Sustainable Development and Biodiversity 10. Pp 367-391. https://doi.org/10.1007/978-3-319-27096-8_12. Springer International Publishing, Switzerland (Print ISBN-978-3-319-27094-4, Online ISBN-978-3-319-27096-8).

C. Research Papers published: [27]

1. **Suraj Umdale**, Rajashri Mahadik, Pranav Otari, Nitin Gore, Pankaj Mundada, Mahendra Ahire (2021). Phytochemical composition, and antioxidant potential of *Frerea indica* Dalz.: A critically endangered, endemic and monotypic genus of the Western Ghats of India. ***Biocatalysis and Agricultural Biotechnology*** (<https://doi.org/10.1016/j.bcab.2021.102080>) (AUG-2021)
2. Pankaj S. Mundada, Mahendra L. Ahire, **Suraj D. Umdale**, Rajkumar B. Barmukh, Tukaram D. Nikam, Anupama A. Pable, Rupesh K. Deshmukh, Vitthal T. Barvkar (2021). Characterization of influx and efflux silicon transporters and understanding their role in the osmotic stress tolerance in finger millet (*Eleusine coracana* (L.) Gaertn.) ***Plant Physiology and Biochemistry*** 162: 677689 (IF-3.720) (<https://doi.org/10.1016/j.plaphy.2021.03.033>) (MAY-2021)
3. Pankaj S. Mundada, Vitthal T. Barvkar, **Suraj D. Umdale**, Anil Kumar S., Mahendra L. Ahire (2021). An insight into the role of silicon on retaliation to osmotic stress in finger millet (*Eleusine coracana* (L.) Gaertn.). ***Journal of Hazardous Materials*** 403: 124078. (IF-9.038). (<https://doi.org/10.1016/j.jhazmat.2020.124078>) (FEB-2021)
4. Vidhya Kamble. Usman Attar, **Suraj Umdale**, Mansingraj Nimbalkar, Savaliram Ghane, Nikhil Gaikwad (2020). Phytochemical analysis, antioxidant activities and optimized extraction of embelin from different genotypes of *Embelia ribes* f.: A woody medicinal climber from Western Ghats of India. ***Physiology and Molecular Biology of Plants*** 26: 1855-1865. (IF-2.005). (<https://doi.org/10.1007/s12298-020-00859-2>) (AUG-2020)
5. **Suraj Umdale**, Mahendra Ahire, Vilas Aiwale, Ajit Jadhav, Pankaj Mundada (2020) Phytochemical investigation and antioxidant efficacy of wild, underutilized berries of economically important Indian Sandalwood (*Santalum album* L.) ***Biocatalysis and Agricultural Biotechnology*** (27): 101705. (<https://doi.org/10.1016/j.bcab.2020.101705>) (AUG-2020)
6. **Suraj D. Umdale**, Amit B. Mirgal, Bhairu N. Shinde, Rahul S. Sawant, Chandrakant B. Salunkhe, Nikhil B. Gaikwad (2020). Evaluation of genetic diversity in *Antiaris toxicaria* Lesch. from sacred groves of the Western Ghats, India. ***National Academy Science Letters*** 43(4): 383-388. (IF-0.416) (<https://doi.org/10.1007/s40009-020-00878-3>) (JAN-2020)
7. Mundada P.S., Nikam T.D., Anil Kumar S., **Umdale S.D.**, Ahire M.L. (2020). Morpho-physiological and biochemical responses of finger millet (*Eleusine coracana* (L.) Gaertn.) genotypes to PEG-induced osmotic stress. ***Biocatalysis and Agricultural Biotechnology*** (23): 101488. (<https://doi.org/10.1016/j.bcab.2019.101488>) (JAN-2020)
8. **Suraj D. Umdale**, Nikhil B. Gaikwad, Surendra K. Malik, Padmavati G. Gore, Shrirang R. Yadav and Kangila V. Bhat (2019). Seed coat polymorphism in *Vigna* section *Aconitifoliae*. ***Flora: Morphology, Distribution, Functional Ecology of Plants***, 259: 151458. (IF-1.591) (<https://doi.org/10.1016/j.flora.2019.151458>). (OCT-2019)
9. Padmavati G. Gore, Kuldeep Tripathi, Aditya Pratap, Kangila V. Bhat, **Suraj D. Umdale**, Veena Gupta, Anjula Pandey (2019). Delineating taxonomic identity of two closely related *Vigna* species of section *Aconitifoliae*: *V. trilobata* (L.) Verdc. and *V. stipulacea* (Lam.) Kuntz in India. ***Genetic Resources and Crop Evolution*** 66(5):11155-1165 (I.F: 1.071) (<https://doi.org/10.1007/s10722-019-00767-9>). (MAR-2019)
10. Pankaj S. Mundada, **Suraj D. Umdale**, Tukaram D. Nikam, Mahendra L. Ahire (2019). Genetic diversity using RAPD markers, mineral composition and their correlation in selected local landraces of Finger millet (*Eleusine coracana* (L.) Gaertn.) ***Vegetos***. 32 (1):1-10. <https://doi.org/10.1007/s42535-019-00001-y> (FEB-2019)
11. **Suraj D. Umdale**, Jaykumar J. Chavan, Mahendra L. Ahire, Parthraj R. Kshirsagar Nikhil B. Gaikwad and Kangila V. Bhat (2018). *Vigna khandalensis* (Santapau) Raghavan & Wadhwa: a promising underutilized, wild, endemic legume of the Northern Western Ghats, India. ***Genetic Resources and Crop Evolution*** 65(6):1795-1807 (I.F: 1.071) <https://doi.org/10.1007/s10722-018-0657-y> (JUN-2018)
12. Pooja Bangar, Ashok Chaudhury, **Suraj Umdale**, Ratna Kumari, Bhavana Tiwari, Sanjay Kumar, Ambika B. Gaikwad, K. V. Bhat (2018). Detection and characterization of polymorphic simple sequence repeats markers for the analysis of genetic diversity in Indian mungbean [*Vigna radiata* (L.) Wilczek]. ***Indian Journal of Genetics and Plant Breeding*** 78(1):111-117. (I.F: 0.554) <https://doi.org/10.5958/0975-6906.2018.00013.5> (MAR-2018)

13. Snehal S. Patil, Jyoti J. Mane, **Suraj D. Umdale** and Jaykumar J. Chavan (2017). Direct and indirect shoot organogenesis strategies for propagation and conservation of *Abutilon ranadei* Wooder & Stapf – a critically endangered plant. *Advances in Cell Science and Tissue Culture* 1(1): 1-4. <https://doi.org/10.35841/cell-science.1000103> (MAY-2017)
14. **Suraj D. Umdale**, Parthraj R. Kshirsagar, Manoj M. Lekhak and Nikhil 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) Suppl. S2:224-229. (Print ISSN- 0973-1296, Online ISSN-0976-4062) (IF- 1.31) (<https://doi.org/10.4103/pm.pm.499.16>) (JUL-2017)
15. Parthraj Kshirsagar, **Suraj Umdale**, Jaykumar Chavan, Nikhil Gaikwad (2017). Molecular Authentication of Medicinal Plant, *Swertia chirayita* and its Adulterant Species. *Proceedings of National Academy of Science, India, Sect. B Biological Science* 87(1): 101-107. (Print ISSN- 0369-8211, Online ISSN- 2250-1746) (I.F: ---) <https://doi.org/10.1007/s40011-015-0556-3> (MAR-2017)
16. **Suraj D. Umdale**, Pravin D. Patil, Surendra K. Malik, M. Latha, Satyawada R. Rao, Shrirang R. Yadav, Nikhil B. Gaikwad and Kangila V. Bhat (2017). Seed coat sculpture of subgenus *Ceratotropis* (Piper) Verdc., genus *Vigna* Savi in India and its taxonomic Implications. *Botany Letters*. 164(1): 63-78. (Print ISSN- 2381-8107, Online ISSN- 2381-8115) (IF- 1.048) <https://doi.org/10.1080/23818107.2016.1273795> (FEB-2017)
17. **Suraj D. Umdale**, Makarand A. Aitawade, Surendra K. Malik, Shrirang R. Yadav, Nikhil B. Gaikwad and Kangila V. Bhat (2017). Pollen morphology of Asian *Vigna* species (genus *Vigna*; subgenus *Ceratotropis*) from India and its taxonomic implications. *Turkish Journal of Botany* 41(1): 75-87. (Print ISSN- 1300-008X, Online ISSN- 1303-6106) (IF- 1.109) <https://doi.org/10.3906/bot-1603-31> (MAR-2017)
18. Rajappa J. J., **Umdale S. D.**, Kole P. R. and Bhat K. V. (2016). Identification of Conserved Orthologous Set markers in cultivated *Vigna radiata* (L.) Wilczek. *Vegetos- An International Journal of Plant Research* 29(3) 1-14. (Print ISSN-0970-4078, Online ISSN-2229-4473) <https://doi.org/10.5958/2229-4473.2016.00066.5> (JUL-2016)
19. Jaykumar J. Chavana, Dhanaji M. Ghadage, Ashok S. Bhoite, **Suraj D. Umdale** (2015). Micropropagation, molecular profiling and RP-HPLC determination of mangiferin across various regeneration stages of Saptarangi (*Salacia chinensis* L.). *Industrial Crops and Products* 76:1123-1132. (ISSN- 0926-6690) (I.F: 4.244) <https://doi.org/10.1016/j.indcrop.2015.08.028> (DEC-2015)
20. Poornachandra Rao K., Chennappa G., **Suraj U.**, Nagaraja H., Charith Raj A. P. and M. Y. Sreenivasa (2015). Probiotic potential of *Lactobacillus* strains isolated from Sorghum-based traditional fermented food. *Probiotics and Antimicrobial Proteins* 7 (2):146-156. (ISSN- 1867-1306) (I.F: 3.533) <https://doi.org/10.1007/s12602-015-9186-6> (FEB-2015)
21. Parthraj R. Kshirsagar, Jaykumar J. Chavan, **Suraj D. Umdale**, Mansingraj S. Nimbalkar, Ghansham B. Dixit, Nikhil B. Gaikwad (2015). Highly efficient in vitro regeneration, establishment of callus and cell suspension cultures and RAPD analysis of regenerants of *Swertia lawii* Burkill. *Biotechnology Reports* 6:79-84. (ISSN- 2215-017X) <https://doi.org/10.1016/j.btre.2015.03.003> (JUN-2015)
22. Chavan J. J., Gaikwad N. B., Kshirsagar P. R., **Umdale S. D.**, Bhat K. V., Dixit G. B. and Yadav S. R. (2015). Highly efficient in vitro proliferation and genetic stability analysis of micropropagated *Ceropegia evansii* by RAPD and ISSR markers: A critically endangered plant of Western Ghats. *Plant Biosystems* 149 (2): 442-450. (Print ISSN- 1126-3504, Online ISSN- 1724-5575) (I.F: 1.787) <https://doi.org/10.1080/11263504.2013.853700> (NOV-2015)
23. Naik M. K., Chennappa, G., Bhat, K. V., Amaresh, Y. S. and **Suraj, U.** (2014). Molecular and Pathogenic diversity of *Alternaria* sp. Isolated from *Sesamum* by SCAR marker. *International Journal of Current Research* 6 (9): 8335-8350. (SEPT-2014)
24. Chennappa G., Adkar-Purushothama C. R., Naik M. K., **Suraj U.** and Sreenivasa M. Y. (2014). Impact of pesticides on PGPR activity of *Azotobacter* sp. Isolated from pesticide flooded paddy soils. *Greener journal of Agricultural Sciences* 4 (4):117-129. (ISSN- 2276-7770) <https://doi.org/10.15580/gjas.2014.4.010314003> (MAY-2014)
25. Gurikar Chennappa, C. R. Adkar-Purushothama, **Umdale Suraj**, K. Tamilvendan and M. Y. Sreenivasa (2014). Pesticide tolerant *Azotobacter* isolates from paddy growing areas of northern Karnataka, India. *World Journal of Microbiology and Biotechnology* 30:1-7. (Print ISSN- 0959-3993, Online ISSN- 1573-0972) (I.F: 2.477) <https://doi.org/10.1007/s11274-013-1412-3> (JUN-2013)

26. Chavan J. J., Gaikwad N. B., **Umdale S. D.**, Kshirsagar P. R., Bhat K. V. and Yadav S. R. (2014). Efficiency of direct and indirect shoot organogenesis, molecular profiling, secondary metabolite production and antioxidant activity of micropropagated *Ceropegia santapau*. **Plant Growth Regulation** 72 (1): 1-15. (Print ISSN- 0167-6903, Online ISSN- 1573-5087) (I.F: 2.388) <https://doi.org/10.1007/s10725-013-9830-7> (MAY-2013)
27. Chavan J. J., Gaikwad N. B., Kshirsagar P. R., **Umdale S. D.**, Bhat K. V., Dixit G. B. and Yadav S. R. (2013). Application of molecular markers to appraise the genetic fidelity of *Ceropegia spiralis* – an endangered medicinal plant of South India. **Current Science** 105 (10):1348-1350 (ISSN-0011-3891) (I.F: 0.725) (NOV-2013)

d. Research Communicated: [02]

- Mundada PS, Jadhav SV, Salunkhe SS, Gurme ST, **Umdale SD**, Nikam TD, Ahire ML: Proline and plant response under resilient environmental conditions. In: Husen A (Eds.) Resilient Environment and Plant Potential. Springer.
- Mundada PS, Jadhav SV, Salunkhe SS, Gurme ST, **Umdale SD**, Barmukh RB, Nikam TD, Ahire ML: Silicon and plant responses under resilient environmental conditions. In: Husen A (Eds.) Resilient Environment and Plant Potential. Springer.

e. Research Papers presented in conferences/seminars/symposia: [23]

Sr. No	Authors	Title	Name of the conference/ seminar/ symposia
1	P. S. Mundada, H. A. Nikule, S. D. Umdale , S. Anil Kumar, V. T. Barvkar, T. D. Nikam, M. L. Ahire	Visualizing the distribution of silicon in different plant parts of finger millet (<i>Eleusine coracana</i> (L.) Gaertn.) using electron dispersive spectroscopy (EDS)	International E-Conference on "Current Approaches in Life Sciences for Sustainable Development" (ICCALSSD-2021) organized by Yashavantrao Chavan Institute of Science (Autonomous College), Satara – 415 001, Maharashtra, on 19-20 th March 2020. PP. 29
2	Nitin Gore, Kajal Patil, Sandhyarani Khilare, Sumaiya Shaikh, Hanmant Shinde, Abhinav Mali, Pankaj Mundada, Suraj Umdale , Mahendra Ahire1	Proximate composition and phytochemical analysis of different plant parts of <i>Vigna stipulacea</i> Kuntze	International E-Conference on "Current Approaches in Life Sciences for Sustainable Development" (ICCALSSD-2021) organized by Yashavantrao Chavan Institute of Science (Autonomous College), Satara – 415 001, Maharashtra, on 19-20 th March 2020. PP. 50
3	Sumaiya S. Shaikh, Nitin T. Gore, Abhinav A. Mali, Suraj D. Umdale , Pankaj Mundada, Mahendra L. Ahire	Differential response of local landraces of finger millet (<i>Eleusine coracana</i> (L.) Gaertn.) to salinity stress in relation to growth	International E-Conference on "Current Approaches in Life Sciences for Sustainable Development" (ICCALSSD-2021) organized by Yashavantrao Chavan Institute of Science (Autonomous College), Satara – 415 001, Maharashtra, on 19-20 th March 2020. PP. 93
4	Salunkhe A, Jadhav S, Umdale S , Ahire M and Mendada P	Isolation and characterization of bio-surfactant producing bacteria and its potential application in Agriculture	State level conference in "Innovative prospects in Basic and Applied Sciences held at Hutatma Rajguru Mahavidyalaya Rajgurunagar, on 27-28 th Dec. 2019. PP. 14 ISBN: 973-93-89739-28-2
5	Ghorpade P, Nikam S, Jadhav S, Mundada P, Umdale S , and Ahire M	Nutritional composition analysis of wild leafy vegetable "Bharangi"	State level conference in "Innovative prospects in Basic and Applied Sciences held at Hutatma Rajguru Mahavidyalaya Rajgurunagar, on 27-28 th Dec. 2019. PP. 34 ISBN: 973-93-89739-28-2

6	Suryavanshi S, Pawar K, Shinde H and Umdale S	Enumeration of Floristic diversity of Yamai Hill, Aundh, (Satara, MS)	State level conference in "Innovative prospects in Basic and Applied Sciences held at Hutatma Rajguru Mahavidyalaya Rajgurunagar, on 27-28 th Dec. 2019. PP. 52 ISBN: 973-93-89739-28-2
7	Khade V.M., Asabe K.D., Mali A.A., Deshpande S.M., Umdale S.D.	Phytochemical analysis and Antioxidant activity of <i>Fragaria Ananassa</i> Duch. (EVPP-12)	International conference on Chemistry, environment and energy (ICCEE-2019) at YCIS, Satara. 16 th -18 th February, 2019.
8	Kachhi Anam, Dhabade Mayuri, Ahire Mahendra, Umdale Suraj	Effect of Sodium chloride induced salt stress on growth and antioxidant enzyme activities in seedlings of Urdbean (<i>V. mungo</i> (L.) Hepper (EVPP-24)	International conference on Chemistry, environment and energy (ICCEE-2019) at YCIS, Satara. 16 th -18 th February, 2019.
9	Nikam SR, Ghorpade PP, Pawar K, Jadhav SV, Mandada PS, Umdale SD , Ahire ML	Phytochemical; analysis of wild vegetable plant Bharangi (<i>Clerodendron serratum</i> Linn. (EVPP-25)	International conference on Chemistry, environment and energy (ICCEE-2019) at YCIS, Satara. 16 th -18 th February, 2019.
10	Pawar MA, Panari PM, Deshpande SM, Umdale SD	Antioxidant activity and phytochemical investigation in <i>Ziziphus maruitiana</i> ; An underutilized wild food resources (EVPP-29)	International conference on Chemistry, environment and energy (ICCEE-2019) at YCIS, Satara. 16 th -18 th February, 2019.
11	Aiwale VS, Patil DR, Deshpande SM, Umdale SD	phytochemical investigation of <i>Dolichandrone falcate</i> : A rare medicinal plant (EVPP-31)	International conference on Chemistry, environment and energy (ICCEE-2019) at YCIS, Satara. 16 th -18 th February, 2019.
12	Shinde RL, Madadik RJ, Mali AA, Deshpande SM, Umdale SD	Investigation of antioxidant activity and total phenolic content in red raspberry (EVPP-38)	International conference on Chemistry, environment and energy (ICCEE-2019) at YCIS, Satara. 16 th -18 th February, 2019.
13	Otari PS, Jadhav AA, Deshpande SM, Umdale SD	Phytochemical evaluation of <i>Erinocarpus nimmonii</i> Grah. (Tiliaceae): A monotypic endemic genus from Western Ghats (EVPP-39)	International conference on Chemistry, environment and energy (ICCEE-2019) at YCIS, Satara. 16 th -18 th February, 2019.
14	Suraj D. Umdale , Nitin T. Gore, Uday L. Chaugule	Phytochemical analysis of wild least snout bean (<i>Rhynchosia minima</i> (L.) DC.) (EVPP-41)	International conference on Chemistry, environment and energy (ICCEE-2019) at YCIS, Satara. 16 th -18 th February, 2019.
15	Gore NT, Chougule UL, Ahire ML, Chavan JJ, Umdale SD*	Nutritional potential of legume <i>Vigna sahyadriana</i> Aitawade, Bhat & Yadav: A Crop Wild Relative of <i>V. mungo</i> (L.) Hepper (Urdbean)	International conference on Advances in life sciences (ICARLS-2018) at Department of Botany, Sadguru Gadage Maharaj college, Karad. 27 th -28 th March, 2018.
16	Umdale SD , Mirgal AB, Shinde BN, Sawant RS, Salunkhe CB, Gaikwad NB	Evaluation of genetic diversity and population structure of <i>Antiaris toxicaria</i> Lesch. from sacred groves of the Western Ghats, India.	National Conference on "Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (NCMALS 2018) at Department of Botany, YCIS, Satara during 5 th -6 th January 2018.
17	Babar PS, Deshmukh DV, Salunkhe SS, Mundada PS, Ahire ML, Umdale SD , Chavan JJ	An improved micropropagation, metabolite profiles and antimicrobial activity of active fractions of 'Sweet Flag' (<i>Acorus calamus</i>): a potent aromatic herb.	National Conference on "Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (NCMALS 2018) at Department of Botany, YCIS, Satara during 5 th -6 th January 2018.
18	Umdale SD ,	Assessment of pollen viability	National Conference on

	Gaikwad NB, Yadav SR, Bhat KV	and <i>in-vitro</i> pollen germination of Asian <i>Vigna</i> [subgenus <i>Ceratotropis</i> (Piper) Verdc.] species in India.	“Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (NCMALS 2018) at Department of Botany, YCIS, Satara during 5 th -6 th January 2018.
19	Jadhav SV, Jadhav PD, Mundada PS, Chavan JJ, Umdale SD , Ahire ML	Nutritional potential of <i>Clerodendrum serratum</i> Linn. and its antioxidant and antimicrobial activity.	National Conference on “Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (NCMALS 2018) at Department of Botany, YCIS, Satara during 5 th -6 th January 2018.
20	Parthraj Kshirsagar, Suraj Umdale and Nikhil Gaikwad	Phytochemical investigation, antioxidant activities and RP-HPLC analysis of Secoiridoid glycoside, Swertiamarin of <i>Swertia densifolia</i> (Griseb.) Kashyapa.	XII th Conference of Society of Cytologists and Geneticists and National Symposium on Challenges for Biologists in 21 st Century at Department of Botany, Shivaji University, Kolhapur during 22 nd -24 th December 2014.
21	Shimpale VB, MS Nimbalkar, PR Kshirsagar, Suraj Umdale and NV Pawar	Enumeration of flowering plant resources of Bhudargad fort from Northern Western Ghats.	National level conference on Life sciences: An outlook and challenges at Dahiwadi College, Dahiwadi, Maharashtra on 12 th and 13 th September 2014
22	NV Pawar, MS Nimbalkar, PR Kshirsagar, Suraj Umdale and VB Shimpale	Bhudargad Fort: A hidden treasure of floristic diversity from Northern Western Ghats.	National conference on “Recent trends in Botany” at Yashavantrao Chavan Institute of Science, Satara, Maharashtra on 18 th and 19 th January, 2013.
23	P Barman, S Umdale , KV Bhat and R Geeta	Phylogeny of Indian <i>Dioscorea</i> (true yams) based on <i>matK</i> and <i>rbcl</i> sequences	15 th Annual ADNAT Convention on Genomics and Biodiversity organized by ADNAT and CCMB, Hyderabad, India, during 23 rd -25 th Feb. 2011.

f. Patents/Registrations/Databases:

Nucleotide sequences (DNA Barcodes) deposited in National Center for Biotechnology Information (NCBI) and European Molecular Biology Laboratory (EMBL) Databases- **546** sequences (Supplementary Data).

❖ Orientation/FDP/ Refresher attended: [04]

Sr. No	Name of FDP	Date/Duration	Organized by
1	Online Two Weeks Faculty Development Programme (FDP) on Managing Online Classes and Co-creating MOOCs (FDPMOOCs01)	(Two Weeks) 20 th April, 2020 to 6 th May, 2020.	Teaching Learning Centre, established under the Pandit Madan Mohan Malaviya National Mission on Teachers and Training scheme of MHRD, Ramanujan College (University of Delhi) (A+ Grade)
2	Online Faculty Development Programme (FDP) on Modern Teaching, Evaluation and Research Methods	(One Week) 02 nd June 2020 To 07 th June 2020	Vinayakrao Patil Mahavidyalay, Vaijapur, Dist. Aurangabad (A-Grade)
3	Orientation Programme for “Faculty in Universities/ Colleges/ Institutes of Higher Education”	(One Month) 18 th May 2020 to 17 th June, 2021	Teaching Learning Centre, Ramanujan Collegem University of Delhi under the aegis of Ministry of Education Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (A+ Grade)

4	Online Faculty Development Programme (FDP) on "Biotechnology for 21st Century"	(One Week) 19 nd July 2021 to 24 th July 2021	Marian Star Centre PG and Research Department of Botany, St. Mary's College (Autonomous), Thoothukudi- 628001, Tamil Nadu
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❖ Workshops/Training programmes attended: [09]

1. One day workshop "Hands on training in Plant Taxonomy" organized by Yashavantrao Chavan Institute of Science, Satara in collaboration with Naoroji Godrej Center for Plant Research (NGCPR) on 29th December, 2018
2. One day workshop on "Innovative research and Patenting Methodology" organized by Yashavantrao Chavan Institute of Science, Satara on 10th February, 2018
3. One day international workshop on "Abroad Research Opportunities for students" organized by Yashavantrao Chavan Institute of Science, Satara and Savitribai Phule Mahila Mahavidyalaya, Satara on 8th March, 2017
4. One day state level workshop on "Careers in Intellectual Property Rights" organized by Rayat Institute of Research and Development (RIRD) and Karmaveer Bhaurao Patil College of Engineering, Satara on 29th January, 2017
5. The Workshop on "Molecular Biology (Hiper Teaching Kits)" organized by Department of Biotechnology Yashavantrao Chavan Institute of Science, Satara and Himedia Laboratories Pvt. Ltd. On 17th September, 2016
6. One day workshop on "Research methodology for PG students, research scholars and faculty members" organized by Yashavantrao Chavan Institute of Science, Satara on 6th February, 2016
7. One day workshop on "Revised syllabus of Botany B.Sc. III" organized by Department of Botany, Yashavantrao Chavan Institute of Science, Satara on 2nd September, 2015
8. Workshop on "Tools and Techniques in molecular systematics/ Phylogenetics" organized by Department of Botany, Shivaji University, Kolhapur, Maharashtra from 8th to 10th November, 2012.
9. Training programme on "Recent Advances in Statistics and Computational Genomics Data Analysis" organized by Indian Agricultural Statistics Research Institute (IASRI), Indian Council of Agricultural Research Institute (ICAR), Pusa Campus, New Delhi, India during 19th to 28th March, 2012.

❖ Conferences/Seminars/Symposia attended: [06]

1. International conference on "Recent Advances in Renewable Energy and Hygiene Devices (RAREHD-2018)" organized by Yashavantrao Chavan Institute of Science, Satara held on 5th and 6th March, 2018
2. National conference on "Recent Advances of Taxonomy in Life Sciences" organized by Department of Zoology, Yashavantrao Chavan Institute of Science, Satara held on 6th and 7th October, 2015
3. One day national seminar on "Biodiversity conservation and Bioprospecting" organized by Department of Botany, Shivaji University, Kolhapur on 31st January, 2015
4. XIIth Conference of Society of Cytologists and Geneticists and National Symposium on Challenges for Biologists in 21st Century organized by Department of Botany, Shivaji University, Kolhapur on 23rd to 25th December, 2014
5. International seminar on "Changing Scenario in Angiosperm Systematics" and XVIIth Annual Conference of IAAT organized by Department of Botany, Shivaji University, Kolhapur on 19th to 21st November, 2007
6. Two day regional seminar on "Recent trend in Biotechnology and Bioinformatics" organized by Department of Zoology, Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur during 19th and 20th January, 2006

❖ Conferences/seminar/workshop organized: [05]

1. **Organizing Committee Member** in International Conference on Recent Advances in Renewable Energy and Hygiene Devices (RAREHD-2018) at Yashwantrao Chavan Institute of Science, Satara during 5th -6th March 2018.
2. **Organizing Committee Member** of National Conference on “Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (NCMALS 2018) at Department of Botany, YCIS, Satara during 5th -6th January 2018.
3. **Organizing Committee Member** of “XIIth Conference of Society of Cytologists and Geneticists and National Symposium on Challenges for Biologists in 21st Century, organized by Department of Botany, Shivaji University, Kolhapur, Maharashtra during 23rd to 25th December, 2014.
4. **Organizing Committee Member** of the training programme on “Forest biotechnology for Indian council of Forestry Research and Education (ICFRE)” at National Bureau of Plant Genetic Resources (NBPGR), Pusa campus, New Delhi, India during 11th to 20th July, 2011.
5. **Organizing Committee Member** of Indian Council of Agricultural Research (ICAR) Winter School on “Molecular markers for efficient management and enhancing utilization of plant genetic resources” during 05th to 16th January, 2010, at National Bureau of Plant Genetic Resources (NBPGR), Pusa campus, New Delhi, India.

❖ **Membership/Referee of scientific societies/journals:**

Journal Referee:

1. Natural Product Research
2. Food Biotechnology
3. Genetic Resources and Crop Evolution
4. Tropical Ecology

❖ **SCOPUS ID:** <https://www.scopus.com/authid/detail.uri?authorId=55929073200>

❖ **Researchgate ID:** https://www.researchgate.net/profile/Suraj_Umdale

❖ **ORCID ID:** <http://orcid.org/0000-0002-9319-5892>

❖ **LOOP ID:** <https://loop.frontiersin.org/people/834014>

❖ **GoogleScholar:** <https://scholar.google.co.in/citations?user=iV03VvAAAAAJ&hl=en>

❖ **Mendeley ID:** <https://www.mendeley.com/authors/55929073200>

❖ **Research ID:** <https://researchid.co/surajumdale>

❖ **Resource Person in Conference/Seminar/Symposia/Workshop/Training Programme: [05]**

1. Worked as resource person in One Day Hands on Workshop on Advanced Techniques in Plant Sciences for B.Sc. III and Teacher organized by Department of Botany, Yashwantrao Chavan Institute of Science, Satara on 28th August, 2019, at Yashwantrao Chavan Institute of Science, Satara.
2. Worked as resource person in “Five days Residential Rayat Inspire Camp- 2018 under Rayat Inspire Project” organized by Yashwantrao Chavan Institute of Science, Satara on 16th to 20th January, 2018 at Yashwantrao Chavan Institute of Science, Satara.
3. Worked as resource person in One day workshop on “Revised Syllabus of Botany B.Sc. III” organized by Shivaji University, Kolhapur, Maharashtra, India on 2nd September, 2015 at Department of Botany, Yashwantrao Chavan Institute of Science, Satara.
4. Worked as resource person in “Training programme on Forest biotechnology for Indian council of Forestry Research and Education (ICFRE)” organized by Indian council of Forestry Research and Education (ICFRE) and National Bureau of Plant Genetic Resources (NBPGR), New Delhi on 11th to 20th July, 2011, at National Bureau of Plant Genetic Resources, New Delhi, India.

5. Worked as resource person in International training course on “*In vitro* and cryopreservation techniques for conservation of Plant Genetic Resources” organized by National Bureau of Plant Genetic Resources (NBPGR), New Delhi, India on 15th to 27th November, 2010 at National Bureau of Plant Genetic Resources, New Delhi, India
6. Worked as resource person for ICAR Winter School on “Molecular markers for efficient management and enhancing utilization of plant genetic resources” organized by Indian Council of Agricultural Research (ICAR) and National Bureau of Plant Genetic Resources (NBPGR), New Delhi, India on 05th to 16th January, 2010 at National Bureau of Plant Genetic Resources, New Delhi, India

❖ **Computer proficiency:**

- ❖ Maharashtra State Certificate in Information Technology (MS-CIT) with 88% marks in Oct-2005

❖ **Extra-curricular activities:**

- Participated in Maharashtra Charta Cena (MCC) for social work.
- Participated in National Service Scheme (NSS) programme for social work at Shivaji University, Kolhapur during 2006-2008.
- Worked as member of State level inter-college Quiz competition organized by Rayat Shikshan Sanstha's, Karmaveer Vidyaprabodhini in 2016-17; 2017-18; 2018-19 at Yashavantrao Chavan Institute of Science, Satara.
- Participated in “Marathon Competition” organized by Yashavantrao Chavan Institute of Science Satara on August, 2015, 2016, 2017, 2018, 2019

❖ **Declaration:** All the above information is true to the best of my knowledge.

Date:

01st Aug, 2021

Dr. Suraj D. Umdale