



**Rayat Shikshan Sanstha's**  
**Yashavantrao Chavan Institute of Science, Satara (Autonomous)**  
**Lead College of Karmaveer Bhaurao Patil University, Satara**

**Faculty Profile**

❖ **General information**

**Name** : Dr. Mahendra Laxman Ahire  
**Designation** : Assistant Professor  
**Department** : Botany  
**Educational Qualification** : M. Sc., M. Phil., Ph. D.  
**Date of Appointment** : 01/03/2013  
**Teaching Experience** : UG: 10 years  
PG: 10 years  
**Research Experience** : 16 years  
**Research Area** : Plant Physiology and Biotechnology  
**E-mail ID** : mlahire@gmail.com



❖ **Educational Qualification Details (undergraduate onwards)**

Sr. No.	College/University	Degree	Subjects	Year	Class/ Percentage
1.	K. A. N. M. S. Arts, Comm. and Science College, Satana, Dist. Nashik.	B. Sc.	Botany	2005	82.3%
2.	Department of Botany, Savitribai Phule Pune University, Pune	M. Sc.	Botany	2007	6.1 GPA (59.83%) (Grade 'A')
3.	Department of Botany, Savitribai Phule Pune University, Pune	M. Phil.	Botany	2009	Grade 'A'
4.	Department of Botany, Savitribai Phule Pune University, Pune	Ph. D.	Botany	2012	---

❖ **Academic and Administrative Responsibilities:**

Sr. No.	Position	Organization	Date/Duration
1.	Director, IQAC	Karmaveer Bhaurao Patil University, Satara	12/08/2023 to date
2.	Dean, UG Studies	Yashavantrao Chavan Institute of	01/08/2024 to date

		Science, Satara	
3.	Dean, Diploma Programmes (Vocational)	Yashavantrao Chavan Institute of Science, Satara	01/06/2022 to 31/07/2024
4.	Member of the Board of Studies in Botany	Yashavantrao Chavan Institute of Science, Satara	2018-2019 to date
5.	Member of the Board of Studies in Botany	Modern College of Arts, Commerce, and Science (Autonomous College), Pune	2019-2020 to date
6.	Member of the Board of Studies in Botany	New Arts, Commerce, and Science College (Autonomous College), Ahmednagar	2021-2022 to date
7.	Director, CAP, YCIS, Satara	Yashavantrao Chavan Institute of Science, Satara	15/05/2023 to 25/06/2023
8.	Director, CAP, YCIS, Satara	Yashavantrao Chavan Institute of Science, Satara	15/12/2022 to 20/01/2023
9.	Director, CAP, YCIS, Satara	Yashavantrao Chavan Institute of Science, Satara	13/06/2022 to 30/07/2022
10.	Director, CAP, YCIS, Satara	Yashavantrao Chavan Institute of Science, Satara	04/11/2019 to 20/11/2019
11.	Assistant Director, CAP, YCIS, Satara	Yashavantrao Chavan Institute of Science, Satara	April – May 2019

❖ **Awards/Honors/Recognitions/Scholarship etc.:**

Sr. No.	Name of the award/honor/recognition	Awarding Organization	Date and year
1.	Honorary Professor	Rayat Institute of Research and Development (RIRD), Satara	29/06/2021
2.	Recognized M.Phil. and Ph.D. Guide in Botany	Shivaji University, Kolhapur	19/08/2019
3.	Recognized PG Teacher in Botany	Shivaji University, Kolhapur	23/09/2019
4.	Recognized Ph.D. Guide in Botany	Karmaveer Bhaurao Patil University, Satara	21/03/2023
5.	Recognized PG Teacher in Botany	Karmaveer Bhaurao Patil University, Satara	21/03/2023
6.	Recognized Ph.D. Guide in Biotechnology	Karmaveer Bhaurao Patil University, Satara	21/03/2023

❖ **Membership to Professional Organizations/Associations:**

Sr.	Membership type	Organization/Association	Date and year
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<b>No.</b>	<b>(Annual/Life/any other)</b>		
1.	--	--	--

❖ **Worked as Editor/Reviewer to Journals/Books/Proceedings etc.:**

<b>Sr. No.</b>	<b>Name of the Journal/ Book/ Proceedings</b>	<b>ISSN/ ISBN No.</b>	<b>Assignment (Editor/ Reviewer)</b>	<b>Publisher</b>	<b>Publication year</b>
1.	Proceedings of National Conference on “Recent Trends in Physical Education and Sports”	--	Editorial Board Member	YCIS, Satara	2014
2.	Trajectory (Referred Journal: A Biannual Journal of Research Articles)	0975-1165	Editor	Karmaveer Vidya Prabodhini, Satara	From 2017
3.	Acta Physiologiae Plantarum	1861-1664	Reviewer	Springer	2020
4.	Brazilian Journal of Botany	1806-9959	Reviewer	Springer	2020
5.	Current Research in Green and Sustainable Chemistry	2666-0865	Reviewer	Elsevier	2021
6.	Journal of Applied Biology & Biotechnology	2347-212X	Reviewer	Open Science Publishers	2021
7.	Journal of Plant Pathology	2239-7264	Reviewer	Springer	2019
8.	Plos One	1932-6203	Reviewer	PLOS	2021
9.	Physiology and Molecular Biology of Plants	0971-5894	Reviewer	Springer	
10.	Vegetos	2229-4473	Reviewer	Springer	2019
11.	Food and Humanity	2949-8244	Reviewer	Elsevier	2024
12.	Plant Physiology and Biochemistry	0981-9428	Reviewer	Elsevier	2024
13.	BMC Research Notes	1756-0500	Reviewer	BMC	2024

❖ **Research Projects (Ongoing/Completed)**

<b>Sr. No.</b>	<b>Title of Project</b>	<b>Duration</b>	<b>Amount Sanctioned (in Lakhs)</b>	<b>Agency</b>	<b>Status (Ongoing/ Completed)</b>
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<b>Major Research Project</b>					
1.	--	--	--	--	--
<b>Minor Research Project</b>					
1.	Study of genetic diversity and population genetics using SSR markers in local landraces of finger millet from Western Maharashtra	02 Years	0.5	Institutional seed money	Completed
2.	Classification of diseases on grapes through image processing Role: Co-PI	02 Years	0.25	YCIS, Center of Excellence in Artificial Development (COE-AIAD)	Ongoing

❖ **Research Guidance:**

- Number of students (M. Phil.)      1) Completed: --      2) Registered: --
- Number of students (Ph.D.)      1) Completed: --      2) Registered: 03

❖ **Details of Research Publications**

**A) Patent:**

Sr. No.	Title	Patent No.	Indian/US/ Any other	Granting date
1.	--	--	--	--

**B) Books/Book Chapters:**

**1. Books**

Sr. No.	Title	Publisher	Year of Publication	ISBN No	Type (Reference/ Text)
1.	Life Sciences for Sustainable Development (Volume I: Plant Science, Biotechnology, and Food Technology)	Aavishkar Publication, Pune	2022	978-81-964704-3-2	Reference
2.	Biotechnological strategies for conservation of <i>Uraria picta</i>	Lambert Academic Publishing, Germany	2013	978-3-659-50266-8	Reference

## **2. Book Chapters**

<b>Sr. No.</b>	<b>Title</b>	<b>Publisher</b>	<b>Year of Publication</b>	<b>ISBN No</b>	<b>Type (Reference/ Text)</b>
1.	In vitro hepatoprotective lignan production from <i>Phyllanthus</i> species	Elsevier Inc., Netherlands	2024	978-0-443-21818-7	Reference
2.	Signaling crosstalk between auxins - abscisic acid in plant defense, growth, and development	Academic Press, USA	2023	978-0-323-95375-7	Reference
3.	<i>Antiaris toxicaria</i> (Upas Tree)	CRC Press, Boca Raton, USA	2023	978-1-003-30824-9	Reference
4.	Insights into abiotic stress tolerance in small millets through transcriptomics	Springer Nature Singapore Pte Ltd.	2022	978-981-19-3907	Reference
5.	Ameliorative effects of Silicon on plant growth under stress conditions	Aavishkar Publication, Pune	2022	978-81-964704-3-2	Reference
6.	Salinity stress in crops: impact on growth and productivity	Aavishkar Publication, Pune	2022	978-81-964704-3-2	Reference
7.	Causes, consequences and plant response to drought stress in plants	Aavishkar Publication, Pune	2022	978-81-964704-3-2	Reference
8.	<i>Andrographis paniculata</i> (Creat or Green Chiretta) and <i>Bacopa monnieri</i> (Water Hyssop)	CRC Press, Boca Raton, USA	2022	978-1-003-20506-7	Reference
9.	<i>Swertia chirata</i> (Chirata) and <i>Withania somnifera</i> (Ashwagandha)	CRC Press, Boca Raton, USA	2022	978-1-003-20506-7	Reference
10.	<i>Azadirachta indica</i> (Neem) and <i>Berberis aristata</i> (Indian Barberry)	CRC Press, Boca Raton, USA	2022	978-1-003-20506-7	Reference
11.	The influence of environmental pollution on secondary metabolites production in medicinal plants	CRC Press, Boca Raton, USA	2022	978-1-003-17886-6	Reference

12.	Auxins and plant response to adverse environmental conditions	Springer Nature, Switzerland AG	2021	978-3-030-78520-8	Reference
13.	Plant performance and defensive role of proline under environmental stress	Springer Nature, Switzerland AG	2021	978-3-030-78520-8	Reference
14.	Silicon and plant responses under adverse environmental conditions	Springer Nature, Switzerland AG	2021	978-3-030-78520-8	Reference
15.	Transgenic finger millet [ <i>Eleusine coracana</i> (L.) Gaertn.] for crop improvement	Springer Nature Singapore Pte Ltd.	2021	978-981-15-5896-2	Reference
16.	Interspecific hybridization among <i>Vigna mungo</i> (L.) Hepper (Black gram) and wild <i>Vigna</i> species	Springer Nature Singapore Pte Ltd.	2020	978-981-15-4197-1	Reference
17.	Seed micro-morphological characteristics in local landraces of finger millet ( <i>Eleusine coracana</i> (L.) Gaertn.)	Springer Nature Singapore Pte Ltd.	2020	978-981-15-4197-1	Reference
18.	<i>In vitro</i> callus induction and plant regeneration from stem explants of <i>Ceropegia noorjahaniae</i> , a critically endangered medicinal herb	Springer Science + Business Media, New York	2016	978-1-4939-3330-3	Reference
19.	Alkaloids Derived from Tryptophan: Harmine and Related alkaloids	Springer-Verlag, Berlin, Heidelberg	2013	978-3-642-22143-9	Reference

### **C) Datasets Submission:**

Sr. No.	Title	Accession No.	Data base	Year of publication
1.	Osmotic stress relieving action of silicon by fatty acid accumulation in Finger millet ( <i>Eleusine coracana</i> (L.) Gaertn)	PRJNA602616 (Bioproject)	NCBI	2020
2.	<i>Eleusine coracana</i> Silicon transporter	MT411011	NCBI	2020

	( <i>LSi1</i> ) mRNA, complete cds	(Gene sequence)		
3.	<i>Eleusine coracana</i> Silicon transporter ( <i>LSi6</i> ) mRNA, complete cds	MT411012 (Gene sequence)	NCBI	2020
4.	<i>Eleusine coracana</i> Silicon transporter ( <i>LSi3</i> ) mRNA, complete cds	MT411013 (Gene sequence)	NCBI	2020
5.	<i>Eleusine coracana</i> Silicon transporter ( <i>LSi2</i> ) mRNA, complete cds	MT411014 (Gene sequence)	NCBI	2020
6.	<i>Bacillus</i> sp. psm2 16S ribosomal RNA gene, partial sequence	KT334299 (Gene sequence)	NCBI	2015

#### **D) Research papers:**

Sr. No	Title of paper	Journal/proceeding details (Name, volume, page no, year of publication etc.)	ISSN No	Listed in Scopus/Web of Science/ UGC Care	Impact factor (If any)
1.	Enhancing salinity stress tolerance in finger millet [ <i>Eleusine coracana</i> L. (Gaertn.)] through silicon supplementation: A study on seed germination, seedling growth, and antioxidant response	Journal of Crop Health <a href="https://doi.org/10.1007/s10343-024-01018-3">https://doi.org/10.1007/s10343-024-01018-3</a> (2024)	2948-264X	Scopus	2.4
2.	A review on physio-biochemical and molecular bases of salt tolerance in crop plants	Current Agriculture Research Journal. 12(2): (2024)	2347-4688	UGC Care	--
3.	<i>In vitro</i> cultures of <i>Catharanthus roseus</i> (L.) G. Don: A source of anti-cancerous compound vincristine	Discover Plants. 1:8 (2024)	3005-1207	--	--
4.	Revealing the nutritional composition and antioxidant capacity of <i>Vigna trilobata</i> : A promising underexplored grain legume	Food and Humanity. 3:100343 (2024)	2949-8244	--	--
5.	Evaluation of local	Cereal Research	1788-	Scopus	1.6

	finger millet ( <i>Eleusine coracana</i> (L.) Gaertn) landraces for salinity tolerance using growth and biochemical traits at the seedling stage	Communications <a href="https://doi.org/10.1007/s42976-024-00491-w">https://doi.org/10.1007/s42976-024-00491-w</a> (2024)	9170		
6.	Multivariate analysis of the salinity-induced alterations in morphology, physiology, nodulation, and yield in two contrasting mungbean varieties	Notulae Scientia Biologicae. 15: 11365 (2023)	2067-3264	Scopus	--
7.	Genetic diversity of Asian <i>Vigna</i> species (subgenus <i>Ceratotropis</i> ; genus <i>Vigna</i> ) in India based on ITS2 sequences data	Plant Molecular Biology Reporter. 41:454-469 (2023)	0735-9640	Scopus	2.1
8.	Silicon alleviates PEG-induced osmotic stress in finger millet ( <i>Eleusine coracana</i> (L.) Gaertn) by regulating membrane damage, osmolytes, and antioxidant defense	Notulae Scientia Biologicae. 14:11097 (2022)	2067-3264	Scopus	--
9.	Visualizing the distribution of silicon in different plant parts of finger millet ( <i>Eleusine coracana</i> (L.) Gaertn.) using electron dispersive spectroscopy (EDS).	Vegetos. 35:747-755 (2022)	2229-4473	Scopus	--
10.	Multifaceted roles of silicon in mitigating environmental stresses in plants	Plant Physiology and Biochemistry. 169:291-310 (2021)	0981-9428	Scopus	6.5
11.	Phytochemical	Biocatalysis and Agricultural	1878-	Scopus	4.0



	composition, and antioxidant potential of <i>Frerea indica</i> Dalz.: a critically endangered, endemic and monotypic genus of the Western Ghats of India	Biotechnology. 35:102080 (2021)	8181		
12.	<i>Uraria picta</i> : A comprehensive review on evidences of utilization and strategies of conservation	Journal of Phytology. 13:41-47 (2021)	2075-6240	Scopus	--
13.	Characterization of influx and efflux silicon transporters and understanding their role in the osmotic stress tolerance in finger millet ( <i>Eleusine coracana</i> (L.) Gaertn.)	Plant Physiology and Biochemistry. 162:677-689 (2021)	0981-9428	Scopus	6.5
14.	An insight into the role of silicon on retaliation to osmotic stress in finger millet ( <i>Eleusine coracana</i> (L.) Gaertn)	Journal of Hazardous Materials. 403:124078 (2021)	0304-3894	Scopus	13.6
15.	Nutritional potential and antioxidant efficacy of wild, underutilized berries of economically important Indian Sandalwood ( <i>Santalum album</i> L.)	Biocatalysis and Agricultural Biotechnology. 27:101705 (2020)	1878-8181	Scopus	4.0
16.	<i>Bacopa monnieri</i> (L.) Pennell, a potential plant species for degradation of textile azo dyes	Environmental Science and Pollution Research. 27:9349-9363 (2020)	0944-1344	Scopus	5.8
17.	Morpho-physiological and biochemical responses of finger	Biocatalysis and Agricultural Biotechnology. 23: 101488 (2020)	1878-8181	Scopus	4.0

	millet ( <i>Eleusine coracana</i> (L.) Gaertn.) genotypes to PEG-induced osmotic stress				
18.	Reduction in hyperhydricity and improvement in <i>in vitro</i> propagation of commercial hard fiber and medicinal glycoside yielding <i>Agave sisalana</i> Perr. ex. Englem by NaCl and polyethylene glycol	Plant Cell Tissue and Organ Culture. 138:67–78 (2019)	0167-6857	Scopus	3.0
19.	Genetic diversity using RAPD markers, mineral composition and their correlation in selected local landraces of finger millet ( <i>Eleusine coracana</i> (L.) Gaertn.)	Vegetos. 32:1-10 (2019)	2229-4473	Scopus	--
20.	Decolorization and detoxification of reactive azo dyes using cell cultures of a memory tonic herb <i>Evolvulus alsinoides</i> L.	Journal of Environmental Chemical Engineering. 6:6479–6488 (2018)	2213-3437	Scopus	7.7
21.	The vacuolar proton pyrophosphatase gene ( <i>SbVPPase</i> ) from the <i>Sorghum bicolor</i> confers salt tolerance in transgenic Brahmi [ <i>Bacopa monnieri</i> (L.) Pennell]	Physiology and Molecular Biology of Plants. 24(5):809-819 (2018)	0971-5894	Scopus	3.5
22.	<i>Vigna khandalensis</i> (Santapau) Raghavan & Wadhwa: a promising underutilized, wild, endemic legume of the	Genetic Resources and Crop Evolution. 65:1795-1807 (2018)	0925-9864	Scopus	2.0

	Northern Western Ghats, India				
23.	Herbicide effects on pigments and antioxidant enzymes of <i>Portulaca oleracea</i> L.	Journal of Pharmacognosy and Phytochemistry. 7(1):2024-2031 (2018)	2278-4136	--	--
24.	Differential response of soybean ( <i>Glycine max</i> Linn.) varieties to salinity stress in relation to growth and mineral content	Trajectory. 25:14-30 (2017)	0975-1165	--	--
25.	Green synthesis of silver nanoparticles using Bamboo leaf extracts and its antimicrobial properties	Trajectory. 25:7-13 (2017)	0975-1165	--	--
26.	Morphological, biochemical and molecular characterization of <i>Evolvulus alsinoides</i> Linn.: A memory enhancing herb	Indian Journal of Biotechnology. 15:48-56. (2016)	0972-5849	Scopus	0.324
27.	<i>In vitro</i> propagation and cell cultures of memory tonic herb <i>Evolvulus alsinoides</i> : a best source for elicited production of scopoletin	Applied Microbiology and Biotechnology. 100:3463–3476 (2016)	1432-0614	Scopus	5.0
28.	Effect of potassium chloride and calcium chloride induced stress on <i>in vitro</i> cultures of <i>Bacopa monnieri</i> (L.) Pennell.	Journal of Plant Biochemistry and Biotechnology. 23: 366–378 (2014)	0971-7811	Scopus	1.9
29.	Effect of sodium chloride induced stress on growth, proline, glycine betaine accumulation,	Acta Physiologiae Plantarum. 35:1943-1953. (2013)	0137-5881	Scopus	2.6

	antioxidative defense and bacoside A content in <i>in vitro</i> regenerated shoots of <i>Bacopa monnieri</i> (L.) Pennell.				
30.	<i>In vitro</i> propagation and production of cardiogenic glycosides in shoot cultures of <i>Digitalis purpurea</i> L. by elicitation and precursor feeding.	Applied Microbiology and Biotechnology. 97:2379-2393. (2013)	0175-7598	Scopus	5.0
31.	Micropropagation and non-steroidal anti-inflammatory and anti-arthritis agent boswellic acid production in callus cultures of <i>Boswellia serrata</i> Roxb.	Physiology and Molecular Biology of Plants. 19:105-116. (2013)	0971-5894	Scopus	3.5
32.	Cyanobacterial diversity in some Districts of Maharashtra.	Bioremediation, Biodiversity, Bioavailability. 7:70-80 (2013)	1749-0596	--	--
33.	Seed characterization, viability and promotion of seed germination in nerverine tonic plant <i>Evolvulus alsinoides</i> Linn.	The Asian and Australasian Journal of Plant Science and Biotechnology. 6 (Special Issue): 5-11 (2012)	1752-3818	--	--
34.	Influence of plant growth regulators on <i>in vitro</i> seed germination and seedling development of <i>Digitalis purpurea</i> L.	The Asian and Australasian Journal of Plant Science and Biotechnology. 6 (Special Issue): 12-18 (2012)	1752-3818	--	--
35.	Phytoplankton diversity related to pollution from Mula river at Pune city.	Terrestrial and Aquatic Environmental Toxicology. 6:136-141. (2012)	1749-0324	--	--
36.	Brinjal ( <i>Solanum melongena</i> Linn.) varieties accumulate	The Asian and Australasian Journal of Plant Science and Biotechnology. 6:1-6. (2012)	1752-3818	--	--

	both Na <sup>+</sup> and K <sup>+</sup> under low NaCl stress, but excludes Na <sup>+</sup> and accumulate K <sup>+</sup> under high salt levels.				
37.	Micropropagation and assessment of antibiotic selection <i>in vitro</i> of <i>Bacopa monnieri</i> (L.) Pennell.	International Journal of Plant Developmental Biology. 6:34-39. (2012)	1749-4753	--	--
38.	Axillary multiplication of <i>Ceropegia mahabalei</i> Hemadri & Ansari and <i>Ceropegia media</i> (Huber) Ansari: critically endangered ethnomedicinal herbs of Western Ghats, Maharashtra state of India.	International Journal of Plant Developmental Biology. 6:23-33. (2012)	1749-4753	--	--
39.	Effects of optimal and supra-optimal salinity stress on antioxidative defence, osmolytes and <i>in vitro</i> growth responses in <i>Sesuvium portulacastrum</i> L.	Plant Cell, Tissue and Organ Culture. 104:41-49. (2011)	0167-6857	Scopus	3.0
40.	Micropropagation of <i>Uraria picta</i> through adventitious bud regeneration and antimicrobial activity of callus.	In Vitro Cellular and Developmental Biology - Plants. 47:488-495. (2011)	1054-5476	Scopus	2.6
41.	Differential response of Brinjal ( <i>Solanum melongena</i> Linn.) varieties to salinity stress in relation to seed germination and osmolytes accumulation.	Seed Science and Biotechnology. 5:29-35. (2011)	1752-3966	--	--
42.	<i>Indigofera glandulosa</i> Wendl. (Barbada) an	Genetic Resources and Crop Evolution. 57:147-153. (2010)	0925-9864	Scopus	2.0

	important source of nutritious food: underutilized and neglected legume in India.				
43.	Seed viability and influence of presowing treatments on germination and seedling development of <i>Uraria picta</i> (Jacq.) DC.	Seed Science and Biotechnology. 3:48-53. (2009)	1752-3966	--	--
44.	Production of hyoscyamine and scopolamine in shoot and root culture (liquid culture) of <i>Datura metel</i> L.	Plant Cell Biotechnology and Molecular Biology. 10:145-152. (2009)	0972-2025	Scopus	--

**E) Paper Presentation in Conference /Seminar/ Symposia:**

Sr. No	Title of paper	Name of the Conference /Seminar/ Symposia Details (Title, Date, Page No etc.)	Level (Intl/Natl/State /Uni etc.)	Organizing institute
1.	Phytochemical investigation and antioxidant efficacy of the <i>Capparis divaricata</i> Lam.	International Conference on “The New Horizons In Life Sciences”. 20-21 March 2024. PO-45	International	Department of Zoology, Yashavantrao Chavan Institute of Science, Satara
2.	Phytochemical analysis of <i>Abutilon bidentatum</i> Hochst.	International Conference on “The New Horizons In Life Sciences”. 20-21 March 2024. PO-53	International	Department of Zoology, Yashavantrao Chavan Institute of Science, Satara
3.	Phytochemical analysis of <i>Abutilon hirtum</i> Lam.	International Conference on “The New Horizons In Life Sciences”. 20-21 March 2024. PO-55	International	Department of Zoology, Yashavantrao Chavan Institute of Science, Satara
4.	Silicon-mediated	National Conference on	National	Department of

	heavy metal stress mitigation in little millet	“Plant Omics: Recent Trends and Applications”. 21-22 February 2024. Abstract No. P-12.		Botany, Savitribai Phule Pune University, Pune
5.	Silicon improves growth and physiological attributes under long-term salinity stress in finger millet	National Conference on “Plant Omics: Recent Trends and Applications”. 21-22 February 2024. Abstract No. P-13.	National	Department of Botany, Savitribai Phule Pune University, Pune
6.	Comparative account of drought stress tolerance in cultivated <i>Vigna aconitifolia</i> and its wild relative <i>Vigna stipulacea</i>	National Conference on “Plant Omics: Recent Trends and Applications”. 21-22 February 2024. Abstract No. P-14.	National	Department of Botany, Savitribai Phule Pune University, Pune
7.	Phytochemical investigations of <i>Abitulon bidentatum</i> Hochst.	National Conference on “Plant Omics: Recent Trends and Applications”. 21-22 February 2024. Abstract No. P-35.	National	Department of Botany, Savitribai Phule Pune University, Pune
8.	Phytochemical investigation and antioxidant efficacy of the <i>Capparis decidua</i> (Forsk.) Edgew.	National Conference on “Research in the life Sciences with Special Emphasis on Medicinal Plants” and workshop on “Ashwagandha and other Immunity Boositng Plants”. 2-3 February 2024. Pp 50.	National	Shardabai Pawar Arts, Commerce and Science College, Shardanagar, Baramati, Dist. Pune
9.	Phytochemical investigation and antioxidant efficacy of the <i>Capparis zeylanica</i> Linn.	National Conference on “Research in the life Sciences with Special Emphasis on Medicinal Plants” and workshop on “Ashwagandha and other Immunity Boositng Plants”. 2-3 February 2024. Pp 51.	National	Shardabai Pawar Arts, Commerce and Science College, Shardanagar, Baramati, Dist. Pune
10.	The vital role of crop wild relatives in crop improvement and biodiversity	2 <sup>nd</sup> National Conference on “Science and Technology for Sustainable Development” 16 December 2023. Pp 50.	National	Jaysingpur College, Jaysingpur

	conservation			
11.	Silicon alleviates salt stress in finger millet [ <i>Eleusine coracana</i> L. (Gaertn.)].	National Conference on “Emerging Trends in Plant Science Research with Special Emphasis on Medicinal Plants and One Day Workshop cum Buyers-Sellers-Meet on Medicinal Plants”. 14-16 March 2023. Abstract No. O-03	National	Department of Botany, Savitribai Phule Pune University, Pune
12.	Nutritional and Anti-nutritional composition analysis of wild leguminous plant <i>Vigna trilobata</i> (L.) Verdc.: A crop wild relative of <i>Vigna aconitifoli</i>	National Conference on “Emerging Trends in Plant Science Research with Special Emphasis on Medicinal Plants and One Day Workshop cum Buyers-Sellers-Meet on Medicinal Plants”. 14-16 March 2023. Abstract No. P-10.	National	Department of Botany, Savitribai Phule Pune University, Pune
13.	Effect of salt stress on Foxtail millet [ <i>Setaria italica</i> (L.) Beauv.]	National Conference on “Emerging Trends in Plant Science Research with Special Emphasis on Medicinal Plants and One Day Workshop cum Buyers-Sellers-Meet on Medicinal Plants”. 14-16 March 2023. Abstract No. P-11.	National	Department of Botany, Savitribai Phule Pune University, Pune
14.	Nutritional composition of wild legume <i>Vigna silvestris</i> (Lukoki, Maréchal & Otoul) Aitawade, K.V. Bhat & S.R. Yadav: a crop wild relative of urdbean ( <i>V. Mungo</i> (L.) Hepper).	One Day National Conference on “Recent Advances in Biological Sciences and Biodiversity Conservation”. 28 December 2022. Pp 41	National	Department of Botany, Shri Shivaji Mahavidyalaya, Barshi
15.	Nutritional and phytochemical status of local finger millet landraces from Western Maharashtra	International Conference on “Frontiers in Nutrition, Medical Genomics and Drug Discovery (Inbix’22)”. 31 Oct. - 2 Nov. 2022. Pp 249	International	Vignan’s Foundation for Science, Technology and Research,



				Guntur
16.	Phytochemical and proximate composition analysis of underutilized wild Legume plant <i>Vigna stipulacea</i> Kuntze	International Conference on “Frontiers in Nutrition, Medical Genomics and Drug Discovery (Inbix’22)”. 31 Oct. - 2 Nov. 2022. Pp 196-197	International	Vignan’s Foundation for Science, Technology and Research, Guntur
17.	Nutritional composition and phytochemical analysis of wild legume <i>Vigna indica</i> Dixit et al.	International Conference on “Innovative Trends in Life Sciences (ITLS 2022)”. 11-12 March 2022. Pp	International	Sadguru Gadage Maharaj College, Karad
18.	Growth, membrane damage and minerals status in local landraces of finger millet ( <i>Eleusine coracana</i> (L.) Gaertn.) under salt stress	International Conference on “Innovative Trends in Life Sciences (ITLS 2022)”. 11-12 March 2022. Pp	International	Sadguru Gadage Maharaj College, Karad
19.	Green Synthesis of Zinc Nanoparticles from <i>Psidium guajava</i> leaf extract and evaluation of its biological properties	Hybrid (Online/Onsite mode) International Conference on “Integrative Nanotechnology Perspectives for Multidisciplinary Applications 2022 (INPMA – 2022)”. 16-18 January 2022. Pp 166	International	Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune
20.	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)”. 19-20 March 2021. Pp 29.	International	Yashavantrao Chavan Institute of Science, Satara (Autonomous)
21.	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)”. 19-20 March 2021. Pp 50.	International	Yashavantrao Chavan Institute of Science, Satara (Autonomous)

22.	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)”. 19-20 March 2021. Pp 93.	International	Yashavantrao Chavan Institute of Science, Satara (Autonomous)
23.	Differential ability of millets to transport silicon via roots.	National Conference on “Interdisciplinary Approaches in Life Sciences” 2-3 February 2020. Pp 101	National	Yashavantrao Chavan Institute of Science, Satara (Autonomous)
24.	Nutritional composition analysis of wild leafy vegetable “Bharangi”.	State Level Conference on “Innovative Prospects in Basic and Applied Plant Sciences”. 27-28 <sup>th</sup> December 2019. Pp 34. ISBN: 978-93-89739-28-2	State	Hutatma Rajguru Mahavidyalaya, Rajgurunagar
25.	Isolation and characterization of biosurfactant producing bacteria and its potential application in agriculture.	State Level Conference on “Innovative Prospects in Basic and Applied Plant Sciences”. 27-28 <sup>th</sup> December 2019. Pp 14. ISBN: 978-93-89739-28-2	State	Hutatma Rajguru Mahavidyalaya, Rajgurunagar
26.	Effect of Sodium Chloride Induced Salt Stress on Growth and Antioxidant Enzyme Activities in Seedlings of Urd Bean [ <i>Vigna mungo</i> (L.) Hepper]	In International Conference on “Chemistry, Environment and Energy”. 16-19 <sup>th</sup> February 2019. Pp EV-PP 24	International	Yashavantrao Chavan Institute of Science, Satara (Autonomous)
27.	Phytochemical analysis of wild vegetable plant Bharangi ( <i>Clerodendrum serratum</i> Linn.).	In International Conference on “Chemistry, Environment and Energy”. 16-19 <sup>th</sup> February 2019. Pp EV-PP 25	International	Yashavantrao Chavan Institute of Science, Satara (Autonomous)
28.	Nutritional potential of legume <i>Vigna sahyadriana</i> Aitawade, Bhat & Yadav: A crop wild relative of <i>V. mungo</i>	International Conference on “Advanced Research in Life Sciences” 27-28 <sup>th</sup> March 2018. Pp.	International	Sadguru Gadage Maharaj College, Karad

	(L.) Hepper (Urdbean)			
29.	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” 5-6 <sup>th</sup> January 2018. Pp 47	National	Yashavantrao Chavan Institute of Science, Satara
30.	Differential response of soybean ( <i>Glycine max</i> Linn.) varieties to salinity stress in relation to growth and mineral content.	National Conference on “Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development” 5-6 <sup>th</sup> January 2018. Pp 48	National	Yashavantrao Chavan Institute of Science, Satara
31.	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” 5-6 <sup>th</sup> January 2018. Pp 51	National	Yashavantrao Chavan Institute of Science, Satara
32.	Differential response of finger millet ( <i>Eleusine coracana</i> ) cultivars to PEG 6000 induced drought stress in relation to seed germination and osmolytes accumulation	6 <sup>th</sup> International Conference on “Recent Trends in Life Sciences” 29-30 December 2017. Pp. 39-40	International	New Arts, Commerce and Science College, Parner, Dist. Ahmednagar
33.	Investigation on green synthesis of silver nanoparticles and antibacterial properties against pomegranate bacterial blight	National Conference on “Industry, Academia and Environmental Challenges” 22-23 December 2017. Pp. 72	National	Radhabai Kale Mahila Mahavidyalaya, Ahmednagar
34.	Control of Bacterial blight disease of pomegranate using silver nanoparticles	National Conference on “Recent Trends in Nanomaterials” 28 <sup>th</sup> September 2017. Pp 40	National	Yashavantrao Chavan Institute of Science, Satara
35.	Effect of polyethylene	Nat. Seminar on “Medicinal	National	Department of

	glycol induced drought stress on growth, proline, glycine betaine accumulation, antioxidative defense and bacoside A content in <i>in vitro</i> regenerated shoots of <i>Bacopa monnieri</i> (L.) Pennell.	Plant – Bioprospecting, Agrotechniques and Enhancement of Secondary Metabolites” 13-14 <sup>th</sup> February 2014. Pp 89.		Botany, Savitribai Phule Pune University, Pune
36.	Mitigation of adverse effect of sodium chloride stress on <i>Bacopa monnieri</i> (L.) Pennell by addition of potassium chloride and calcium chloride	Int. Con. on “Innovations in Energy, Polymer and Environmental Sciences” 10 – 12 January 2014. Pp 137	International	Yashavantrao Chavan Institute of Science, Satara
37.	Assessment of tissue culture and antibiotic selection parameters useful for transformation of an important medicinal plant <i>Bacopa monnieri</i> (L.) Pennell	Nat. Conf. on “Status, Opportunities and Challenges in Life Sciences” 17-19 September 2013. Pp 38.	National	Radhabai Kale Mahila Mahavidyalaya, Ahmednagar
38.	Osmotic adjustment and bacoside accumulation in <i>in vitro</i> shoot cultures of Brahmi ( <i>Bacopa monnieri</i> (L.) Pennell.)	Nat. Sem. On “Current Prospects and Challenges in Life Sciences” 26-27 July 2013. Pp. 36-37.	National	P. G. Department of Botany, New Arts, Commerce and Science College, Ahmednagar
39.	Effect of potassium chloride and calcium chloride induced stress on <i>in vitro</i> cultures of <i>Bacopa monnieri</i> (L.) Pennell and accumulation of medicinally important bacoside A	Nat. Sem. on “Exploring Strategies for Enhancement of Secondary Metabolites in Medicinal Plants” 13-14 Feb. 2013. Pp 49.	National	Department of Botany, Savitribai Phule Pune University, Pune

40.	Scopoletin production from <i>in vitro</i> root cultures of <i>Evolvulus alsinoides</i> L.	Nat. Sem. on “Exploring Strategies for Enhancement of Secondary Metabolites in Medicinal Plants” 13-14 Feb. 2013. Pp 47	National	Department of Botany, Savitribai Phule Pune University, Pune
41.	Micro-tuberization in <i>Ceropegia</i> : propagation and starch metabolism enzymes	Nat. Sym. on “Impact of Plant Tissue Culture on Advances in Plant Biology” 19-21 Jan. 2012. Pp 159.	National	Loyla Center for R & D, Xavier College, Ahmadabad
42.	Medicinally important metabolites in immature embryo derived callus of <i>Catharanthus roseus</i>	Nat. Sym. on “Impact of Plant Tissue Culture on Advances in Plant Biology” 19-21 Jan. 2012. Pp 218	National	Loyla Center for R & D, Xavier College, Ahmadabad
43.	Metabolic engineering for abiotic stress tolerance in <i>Bacopa monnieri</i> (L.) Pennell. using P5CS and V-PPase gene	Int. Conf. on “Current Trends in Medicinal Plant Research” 10-12 Jan. 2012. Pp 232	International	Department of Botany, Savitribai Phule Pune University, Pune
44.	Organogenesis and scopoletin accumulation in callus of Shankhapushpi ( <i>Evolvulus alsinoides</i> L.)	Int. Conf. on “Current Trends in Medicinal Plant Research” 10-12 Jan. 2012. Pp 215	International	Department of Botany, Savitribai Phule Pune University, Pune
45.	<i>In vitro</i> shoot culture and production of digioxin and digoxin in Himalayan herb <i>Digitalis purpurea</i> L.	Int. Conf. on “Current Trends in Medicinal Plant Research” 10-12 Jan. 2012. Pp 226	International	Department of Botany, Savitribai Phule Pune University, Pune
46.	<i>Agrobacterium tumefaciens</i> -mediated VPP-ase gene transfer and stress tolerance in neurotonic <i>Bacopa monnieri</i> (L.) Pennell.	Nat. Sem. on “Sustainable Productivity through Physiological Intervention” 24-26 Nov. 2011. Pp 93	National	Department of Life Sciences, Ramnarain Ruia College, Matunga, Mumbai
47.	<i>In vitro</i> shoot culture and cardiac glycoside production in <i>Digitalis purpurea</i> L.	Nat. Sem. on “Sustainable Productivity through Physiological Intervention” 24-26 Nov. 2011. Pp 93	National	Department of Life Sciences, Ramnarain Ruia College,

				Matunga, Mumbai
48.	Biomass production and biological activity of cyanobacterium <i>Nostoc calcicola</i> .	Nat. Sem. on “Sustainable Productivity through Physiological Intervention” 24-26 Nov. 2011. Pp 163	National	Department of Life Sciences, Ramnarain Ruia College, Matunga, Mumbai
49.	Optimization of parameters for <i>Agrobacterium</i> -mediated genetic transformation of Brinjal ( <i>Solanum melongena</i> Linn.) using P5CS gene for salt stress tolerance.	Int. Conf. on “Biodiversity and Environmental Crisis: Past, Present & Future” 11-13 February 2011. Pp 24.	International	S. S. V. P. S. Late Kr. Ghogrey Science College, Dhule
50.	Micropropagation of <i>Uraria picta</i> through adventitious bud regeneration and antimicrobial activity of callus.	Int. Conf. on “Biotechnology for Better Tomorrow”. 6-9 February 2011. Pp 90.	International	Department of Microbiology, BAMU Aurangabad, Sub-Division, Osmanabad
51.	Differential response of brinjal varieties to salinity stress in relation to seed germination, osmolytes and antioxidative defence.	Nat. Conf. on “Current Innovation in Plant Sciences”. 5-7 February 2011. Pp	National	K. J. Somaiya College of Arts, Commerce and Science, Kopergaon, Dist: Ahmednagar
52.	Direct shoot regeneration in nodal explants of <i>Uraria picta</i> (Jacq.) DC.: An important medicinal plant.	State Level Conf. on “Current Status of Plant Sciences” 19-20 March 2010. Pp 47.	State	Radhabai Kale Mahila Mahavidyalaya, Ahmednagar
53.	Direct shoot regeneration from nodal explants of <i>Ceropegia media</i> (Huber) Ansari.	Nat. Sym. on “Plant Cell Tissue and Organ Culture: The Present Scenario” 3-5 March 2010. Pp. 90.	National	CAS, Department of Botany, University of Calcutta, Kolkata
54.	Boswellic acid	Nat. Sym. on “Plant Cell	National	CAS,

	production in <i>in vitro</i> raised cell biomass and propagation of <i>Boswellia serrata</i> Roxb.	Tissue and Organ Culture: The Present Scenario” 3-5 March 2010. Pp. 103.		Department of Botany, University of Calcutta, Kolkata
55.	Effect of organic supplements and precursors on tropane alkaloid production in callus, cell and root cultures of <i>Datura metel</i> L.	Nat. Sym. on “Plant Cell Tissue and Organ Culture: The Present Scenario” 3-5 March 2010. Pp. 107.	National	CAS, Department of Botany, University of Calcutta, Kolkata
56.	Evaluation of antioxidant activity and total phenolic content of some <i>Nostoc</i> strains.	Int. Sym. on “Phycological Research” 25-27 February 2010. Pp.	International	CAS Department of Botany, Banaras Hindu University, Varanasi
57.	Production of hyoscyamine and scopolamine in shoot and root culture (Liquid Culture) of <i>Datura metel</i> L.	Nat. Sem. on “Frontiers in Biotechnological Aspects of Plant Sciences” 9-10 January 2010. Pp OR33.	National	C. T. Bora College, Shirur, Dist: Pune
58.	Influence of presowing treatments on seed germination and seedling development of <i>Uraria picta</i> (Jacq.) DC.	Golden Jubilee Conf. on “Challenges and Emerging Strategies for Improving Plant Productivity” 12-14 November 2008. Pp 349.	National	IARI, New Delhi

#### **F) Citation Index:**

	Google Scholar	Scopus	Web of Science
<b>Citations</b>	<b>927</b>	<b>535</b>	<b>335</b>
<b>h-index</b>	<b>16</b>	<b>13</b>	<b>11</b>
<b>i10-index</b>	<b>25</b>	<b>--</b>	<b>--</b>

#### **❖ Participation in Orientation/Refresher/FDP/Short Term/Training Programs:**

Sr. No.	Name of the programme	Organizing institute	Date
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1.	90 <sup>th</sup> Orientation course	UGC Academic Staff College, Goa University, Goa	01 <sup>st</sup> Nov. 2014 to 28 <sup>th</sup> Nov. 2014
2.	Participated in a five-day science teachers' workshop on "Science Education, Science Projects and INSPIRE Program"	Homi Bhabha Center for Science Education (HBCSE), TIFR, Mankhurd, Mumbai	5 <sup>th</sup> October to 9 <sup>th</sup> October 2015
3.	Refresher Course in the subject Life Sciences (Botany)	UGC Human Resource Development Centre, University of Mysore, Mysuru	03 <sup>rd</sup> Nov. 2016 to 23 <sup>rd</sup> Nov. 2016
4.	Participated in Three Days "SIACs Mentor Workshop on Design and Planning Activities for Stakeholders"	Jointly organized by Rajiv Gandhi Science and Technology Commission, Government of Maharashtra and Homi Bhabha Centre for Science Education, TIFR, Mankhurd, Mumbai	2 <sup>nd</sup> May to 4 <sup>th</sup> May, 2017
5.	Participated in Three Days Regional Workshop on "Research Based Pedagogical Tools"	Parvatibai Chowgule College of Arts and Science (Autonomous), Gogol-Margao, Goa	5 <sup>th</sup> March to 7 <sup>th</sup> March 2020
6.	Participated in Two Weeks Faculty Development Programme on "Managing Online Classes and Co-Creating MOOCS"	Teaching Learning Center, Ramanujan College, Delhi University, Delhi sponsored by Ministry of Human Resource Development, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT).	20 <sup>th</sup> April 2020 to 06 <sup>th</sup> May 2020
7.	Online Inter-Disciplinary Refresher Course in Biological Sciences	UGC Human Resource Development Center, Kannur University, Kannur	05 <sup>th</sup> Jan. to 18 <sup>th</sup> Jan. 2021
8.	Online Innovation Ambassador Training (Foundation level)	Ministry of Education (MoE's) Innovation Cell and AICTE	30 <sup>th</sup> June to 30 <sup>th</sup> July 2021.
9.	Online Refresher Course in Life Sciences (Interdisciplinary)	UGC Human Resource Development Center, Bharathidasan University, Tiruchirappalli	08 <sup>th</sup> Sep. to 21 <sup>st</sup> Sep. 2021
10.	One Week Faculty Development program on "Entrepreneurship Development"	Yashwantrao Chavan Institute of Science, Satara	14 <sup>th</sup> Mar. to 19 <sup>th</sup> Mar. 2022
11.	Leadership Development	Maharashtra State Faculty	4 <sup>th</sup> to 6 <sup>th</sup> October



through Outdoor-Based Experiential Activities	Development Academy (MSFDA) in Collaboration with High Places Management Pvt. Ltd., Pune at Garudmachi, Pune	2023
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❖ **Participation in Conference/Seminar/Symposia/Workshop/Any other programs:**

Sr. No.	Name of the event	Organizing institute	Level (Intl/ Natl/ State/ Uni/ Local etc.)	Date
1.	Seminar on “Environmental Awareness: A Need of The Time”	K.A.N.M.S. College, Satana, Tal: Baglan, Dist: Nasik.	State	29 Sep. 2004
2.	Participated in the two days workshop on “Geographical Information System and Remote Sensing”	Department of Environmental Sciences, Savitribai Phule Pune University, Pune	University	23-24 Feb. 2008
3.	Golden Jubilee Conference of Indian Society for Plant Physiology	Plant Physiology Division, IARI, New Delhi	National	12-14 Nov. 2008
4.	National Seminar on Enhancement of Secondary Metabolite Content in Plants ( <i>In Vivo</i> and <i>In Vitro</i> ) Using Biotic and Abiotic Elicitors	Department of Botany, Savitribai Phule Pune University, Pune	National	8-9 Jan. 2010
5.	National Seminar on Frontiers in Biotechnological Aspects of Plant Sciences	Chandmal Tarachand Bora College, Shirur, Dist: Pune.	National	9-10 Jan. 2010
6.	National Conference on Recent Trends in Botany	K. J. Somaiya College, Kopargaon, Dist: Ahmednagar.	National	28-30 Jan. 2010
7.	International Symposium on Phycological Research	CAS in Botany, Banaras Hindu University, Varanasi.	International	25-27 Feb. 2010
8.	National Symposium on Plant Cell Tissue and Organ Culture: The Present Scenario	CAS, Department of Botany, University of Calcutta, Kolkata.	National	3-5 Mar. 2010
9.	State level conference on Current Status of Plant Sciences	Radhabai Kale Mahila Mahavidyalaya, Ahmednagar.	State	19-20 Mar. 2010
10.	Participated in the workshop on “Freshwater Algae, Collection, Culture and Cultivation”	Krishnamurthy Institute of Algology, Chennai	National	10-15 May 2010
11.	Life Sciences Symposium on Current Trends in Biology and Medicine	BARC, Mumbai	National	22-24 Dec. 2010

12.	One Day State Level Seminar on Demystifying G. M. Crops in India and Current Trends in Plant Sciences	Poona College of Arts, Science & Commerce, Pune – 400 001.	State	24 Jan. 2011
13.	National Conference on Current Innovations in Plant Sciences	K. J. Somaiya College, Kopargaon, Dist: Ahmednagar.	National	5-7 Feb. 2011
14.	International Conference on Biotechnology for Better Tomorrow	Department of Microbiology, Osmanabad Sub campus, BAMU, Aurangabad.	International	6-7 Feb. 2011
15.	International Conference on Biodiversity and Environmental Crisis: Past, Present & Future	S.S.V.P.S., Late Kr. Dr. P. R. Ghogrey Science College, Dhule.	International	11-13 Feb. 2011
16.	National Seminar on Plant Biodiversity for Sustainable Development	Department of Botany, Savitribai Phule Pune University, Pune	National	10-12 Mar. 2011
17.	Participated in the two days training on “Camag HPTLC System”	CAMAG Switzerland recognized Applications Research Laboratory, Anchrhom Enterprises (I) Pvt. Ltd., Mumbai – 400 081	Local	29-30 Mar. 2011
18.	Participated in the one-day workshop on “Next Two Decades of Chemical Sciences & Technology”	Maharashtra Academy of Sciences jointly with National Chemical Laboratory, Pune and Department of Chemistry, Savitribai Phule Pune University, Pune	National	23 Sep. 2011
19.	National Seminar on Sustainable Productivity through Physiological Intervention	Department of Life Sciences, Ramnarain Ruia College, Matunga, Mumbai – 19.	National	24-26 Nov. 2011
20.	International Conference on Current Trends in Medicinal Plants	Department of Botany, Savitribai Phule Pune University, Pune	International	10-12 Jan. 2012
21.	Participated in one day workshop on “Phytochemical Analysis of Therapeutically Active Constituents of Pharmaceutically Important Medicinal Plants”	Department of Botany, Savitribai Phule Pune University, Pune	International	13 Jan. 2012
22.	National Symposium on Impact of Plant Tissue Culture on Advances in Plant Biology	Loyla Center for R & D, St. Xavier’s College, Ahmedabad	National	19-21 Jan. 2012

23.	National Conference on Recent Trends in Plant Sciences	Tuljaram Chaturchand College, Baramati, Dist: Pune	National	3-5 Feb. 2012
24.	Participated in one day training on “Introduction to Liquid Chromatography – Mass Spectrometry’ (LC-MS)”	BioAnalytical Technologies (India) Pvt. Ltd., Pune	Local	1 June 2012
25.	National Seminar on Research Guidance for Young Researchers (Joint-Organizing Secretary)	New Arts, Commerce and Science College, Parner, Dist: Ahmednagar	National	21-22 Dec. 2012
26.	National Seminar on Exploring Strategies for Enhancement of Secondary Metabolites in Medicinal Plants	Department of Botany, Savitribai Phule Pune University, Pune	National	13-14 Feb. 2013
27.	Participated in one day workshop on “Initial Stages in Research and Research Mind Set”	Balwant College, Vita, Dist: Sangli	Local	15 Mar. 2013
28.	Participated in one day workshop on “On line entrance examination demo workshop”	Shivaji University, Kolhapur	University	10 Apr. 2013
29.	National Seminar on Current Prospects and Challenges in Life Sciences	P. G. Department of Botany, New Arts, Comm. and Science College, Ahmednagar	National	26-27 July 2013
30.	Participated in one day workshop on “Training workshop of B. Sc. Part III Biotechnology (Entire) on New Revised Syllabus in BTE 502/602 Industrial, Food & Microbial Biotechnology & BTE 506/606 Techniques in Industrial, Agricultural & Health Biotechnology”	Department of Biotechnology, Yashwantrao Chavan Institute of Science, Satara	University	3 Sep. 2013
31.	National Conference on Status, Opportunities and Challenges in Life Sciences	Radhabai Kale Mahila Mahavidyalaya, Ahmednagar.	National	17-19 Sep. 2013
32.	National Conference on Recent Trends in Biology: Nanoscience	Dahiwadi College, Dahiwadi	National	13-14 Dec. 2013
33.	International Conference on Innovations in Energy, Polymer and Environmental Sci. (Organizing secretary)	Yashwantrao Chavan Institute of Science, Satara	International	10-12 Jan. 2014
34.	National Seminar on Medicinal Plants – Bioprospecting, Agrotechniques and	Department of Botany, Savitribai Phule Pune University, Pune	National	13-14 Feb. 2014

	Enhancement of Secondary Metabolites			
35.	Participated in one day workshop on “Medicinal Plant Buyer-Seller Meet”	Department of Botany, Savitribai Phule Pune University, Pune	National	15 Feb. 2014
36.	One day workshop on “Faculty Training Programme”	Yashavantrao Chavan Institute of Science, Satara	Local	24 Feb. 2015
37.	One day seminar and hands-on workshop of “Instrumentation”	Department of Biochemistry, Shivaji University, Kolhapur	University	13 Aug. 2015
38.	Participated in one day workshop on “Use of Statistics in Biological Research”	Department of Statistics, Yashavantrao Chavan Institute of Science, Satara	Local	24 Sep. 2015
39.	Participated in one day workshop on “Research Methodology for PG students, Research Scholars and Faculty Members”	Rayat Institute of Research and Development, Satara	Local	6 Feb. 2016
40.	International Summit on Technology and Innovations for Industry (ISTII 2016)	Yashavantrao Chavan Institute of Science, Satara	International	8-9 March 2016
41.	Participated in One Day State Level Workshop on “Careers in Intellectual Property Rights”	Rayat Institute of Research and Development (RIRD), Satara and Karmaveer Bhaurao Patil College of Engineering, Satara	Local	29 Jan. 2017
42.	National Conference on Recent Trends in Nanomaterials	Yashavantrao Chavan Institute of Science, Satara	National	28 <sup>th</sup> Sep. 2017
43.	National Conference on Industry, Academia and Environmental Challenges	Radhabai Kale Mahila Mahavidyalaya, Ahmednagar	National	22-23 Dec. 2017
44.	6 <sup>th</sup> International Conference on Recent Trends in Life Sciences.	New Arts, Commerce and Science College, Parner, Dist. Ahmednagar	International	29-30 Dec. 2017
45.	National Conference on Multidisciplinary Approaches in Life Science: Research and Application for Sustainable Development (Organizing Secretary)	Yashavantrao Chavan Institute of Science, Satara	National	5-6 Jan. 2018
46.	Participated in One Day Workshop on “Innovative Research and Patenting Methodology”	Yashavantrao Chavan Institute of Science, Satara	Local	10 Feb. 2018

47.	International Conference on Recent Advances in Renewable Energy and Hygiene Devices (RAREHD 2018)	Yashavantrao Chavan Institute of Science, Satara	International	5-6 March 2018
48.	International Conference on Advanced Research in Life Sciences	Sadguru Gadage Maharaj College, Karad	International	27-28 Mar. 2018
49.	One day workshop on “Hands on Training in Plant Taxonomy”	Yashavantrao Chavan Institute of Science, Satara	Local	29 Dec. 2018
50.	International conference on Chemistry, Environment and Energy (ICCEE 2019)	Yashavantrao Chavan Institute of Science, Satara	International	16-18 Feb. 2019
51.	State Level Conference on Innovative Prospects in Basic and Applied Plant Sciences	Hutatma Rajguru Mahavidyalaya, Rajgurunagar	State	27-28 Dec. 2019
52.	National Conference on Interdisciplinary Approaches in Life Sciences	Yashavantrao Chavan Institute of Science, Satara (Autonomous)	National	2-3 February 2020
53.	Participated in One Day Workshop on “Intellectual Property Rights (IPR) for Academia and Industry for Technology Collaboration and Transfer”	Yashavantrao Chavan Institute of Science, Satara	Local	14 Mar. 2020
54.	International E-Conference on “Current Approaches in Life Sciences for Sustainable Development (ICCALSSD-2021)”	Yashavantrao Chavan Institute of Science, Satara	International	19-20 March 2021
55.	Hybrid (Online/Onsite mode) International Conference on “Integrative Nanotechnology Perspectives for Multidisciplinary Applications 2022 (INPMA – 2022)”	Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune.	International	16-18 January 2022
56.	International Conference on “Innovative Trends in Life Sciences (ITLS 2022)”	Sadguru Gadage Maharaj College, Karad	International	11-12 March 2022
57.	Participated in One Week Online Training Programme on “IPR – Patenting System in India	Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM), Nagpur	Local	6-10 June 2022
58.	International Conference on “Frontiers in Nutrition, Medical Genomics and Drug Discovery (Inbix’22)”	Vignan’s Foundation for Science, Technology and Research, Guntur	International	31 Oct. - 2 Nov. 2022
59.	National Conference on Recent	Shri Shivaji College,	National	28 December

	Advances in Biological Sciences and Biodiversity Conservation	Barshi		2022
60.	National Conference on Emerging Trends in Plant Science Research with Special Emphasis on Medicinal Plants and One Day Workshop cum Buyers-Sellers-Meet on Medicinal Plants	Department of Botany, Savitribai Phule Pune University, Pune	National	14-16 March 2023
61.	2nd National Conference on Science and Technology for Sustainable Development	Jaysingpur College, Jaysingpur	National	16 December 2023
62.	National Conference on Research in the life Sciences with Special Emphasis on Medicinal Plants and workshop on Ashwagandha and other Immunity Boositng Plants	Shardabai Pawar Arts, Commerce and Science College, Shardanagar, Baramati, Dist. Pune.	National	2-3 February 2024
63.	A National Conference on Plant Omics: Recent Trends and Applications	Department of Botany, Savitribai Phule Pune University, Pune	National	21-22 February 2024
64.	International Conference on “The New Horizons In Life Sciences	Yashavantrao Chavan Institute of Science, Satara	International	20-21 March 2024

❖ **Resource person in Conference/Seminar/Workshop/Any other programs:**

Sr. No.	Title of the event	Level (Intl/Natl/ State/ Uni./local etc.)	Organizer	Date
1.	Lead college activity	University	Kisan Veer Mahavidyalaya, Wai, Dist. Satara	26 Nov. 2022
2.	One day National Level Webinar on Research Methodology	National	Barns College of Arts, Science and Commerce, Panvel	21 Jan. 2022
3.	“Online Ph. D. course work in Botany”	University	Prof. Ramkrishna More Arts, Commerce and Science College, Akurdi, Pune 411 044	9-10 Dec. 2020
4.	one day workshop on “Techniques and Commercial Application of Plant Tissue Culture”	University	Chandmal Tarachand Bora College, Shirur (Ghodnadi), Tal. Shirur, Dist. Pune	20 Dec. 2019
5.	Two days workshop on “Rayat Avishkar”	Local	Dahiwadi College, Dahiwadi	27 Aug. 2019
6.	One day University	University	Dahiwadi College,	9 Feb. 2019

	level workshop on “Green Audit”		Dahiwadi	
7.	Lead College Activity	University	Sharadchandra Pawar Mahavidyalaya, Lonand, Tal. Khandala, Dist. Satara	27 Feb. 2018
8.	“Rayat Inspire Camp for Junior College Students”	Local	Dahiwadi College, Dahiwadi	04 Jan. 2018
9.	“Research Paper Workshop”	Local	Rayat Vidnyan Parishad at Bhimabai Ambedkar Kanya Vidyalaya, Satara	03 Mar. 2017
10.	One day teacher’s workshop on “Revised Practical Syllabus of B. Sc. III”	University	Yashavantrao Chavan Institute of Science, Satara and Shivaji University, Kolhapur	02 Sep. 2015
11.	one day secondary school science teacher’s workshop on “Topic Selection for Research Paper and Poster Presentation”	Local	Rayat Vidnyan Parishad at Sadhana Vidyalaya, Hadapsar, Pune	15 Sep. 2014
12.	one day secondary school science teacher’s workshop on “Presentation and Assessment of Research Paper”	Local	Rayat Vidnyan Parishad at Yashavantrao Chavan Institute of Science, Satara	21 Dec. 2014
13.	One day workshop on “Biodiversity in Western Ghat”	University	Prof. Dr. N. D. Patil Mahavidyalay, Malkapur, Tal. Shahuwadi, Dist. Kolhapur	20 Jan. 2014
14.	DBT-sponsored Training Course on “Molecular Markers and Their Applications in Plant Sciences”	National	Department of Botany, Savitribai Phule Pune University, Pune 411 007	02-22 Feb. 2010

❖ **Chaired Sessions in Conference/Seminar/Workshop etc.:**

Sr. No.	Title of the event	Level (Intl/Natl/ State/Uni./local etc.)	Organizer	Date
1.	State Level Conference on Innovative Prospects in Basic and Applied Plant Sciences	State	Hutatma Rajguru Mahavidyalaya, Rajgurunagar	27-28 Dec. 2019
2.	National Conference on “Emergence in Scientific Investigative	National	Yashavantrao Chavan Institute of Science	10-11 Mar. 2023

	Techniques (ESIT-23)”		(Autonomous), Satara	
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**Signature of Faculty**