## **BIO-DATA**

## 1. Name and full correspondence address: DR. KIRTANE SUSHAMA ANANDRAO

Associate Professor,

Department of Botany,

Yashwantrao Chavan College of Science, Karad.

Dist. Satara 415124 (MS) India

2. Email(s) and contact number(s): kirtanesa@gmail.com Contact No.09881399944.

**Institution**: Yashwantrao Chavan College of Science, Karad. Dist.

Satara. PIN-415124 (MS) India

**3. Gender:** Female

**4.** Caste: SC (Nav-Boudhha)

## 5. Academic Qualification (Undergraduate Onwards):

Sr.	Degree	Subject	<b>University/Institution</b>	
No.				
	B. Sc.	Botany	Yashwantrao Chavan College of Science,	
1			Karad. Dist. Satara-415124 (MS) India	
		Botany		
2	M. Sc.	(Cyto-genetics and Plant	Shivaji University, Kolhapur. (MS) India	
		Breeding)		

## 6. Ph. D thesis title, Guide's Name, Institute/Organization/University, Year of Award.

**Title**: Cyto-physiological studies in onion (*Allium cepa* L.) with reference to mutagenesis.

Research Guide Name: Hon. Dr. K. N. Dhumal, Ex Professor in Botany

University: Pune University, Pune 411007. (MS), India.

Year of Award: 11th July, 2003.

## 7. Short-term Two-Credit Course:

Short-term **Two-Credit Course** at post-graduate level (duration: 30hrs, five days) on Dealing with Sexual Harassment at Workplace conducted in the Centre for Women's Studies, Shivaji University, Kolhapur on August 28-30<sup>th</sup> and 6-7<sup>th</sup> Sep. 2018.

Successfully completed with First class.

(Paper code: 71885, Paper Name: Dealing with Sexual Harassment at Workplace)

#### 8. Work experience (in chronological order).

S. No.	<b>Position held</b>	Name of Institute	From	To
1	Assistant	Yashwantrao Chavan College of	01/02/2007	6.7.2023
	Professor	Science, Karad. 415124 (MS). India		
2	Associate	Yashwantrao Chavan College of	06.07.2023	Till date
	Professor	Science, Karad. 415124 (MS). India		

## 9. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received

S.	Name of the Award	Awarding Agency	Year
No.			
1.	Fellow of Mendelian	Mendelian Society of India, 194-B, S. K. Puri,	2004
	Academy of Sciences	Patana-800 001 (INDIA).	
		DAE-BRNS project entitled "Improvement in	
2.	Senior Research	quality, yield and storage life of onion (Allium	22 <sup>nd</sup> July, 2002
	Fellow	cepa L.) Through mutation breeding" under	
		Dr. K. N. Dhumal, Dept. of Botany, University	
		of Pune, Pune-411 007.	

## 10. Recognition as a Research Guide for M. Phil., Ph.D. -

Shivaji University, Kolhapur (Ref. No. SU/PGBUTR/Recog/9236).

## 11. Vidwan ID: 490623

## Member of -Prevention of Caste based Discrimination Committee From 2020 Shivaji University, Kolhapur

(Ref.: जा. क्र. विशेष कक्ष/जाती आधारित भेदभाव प्रतिबंध समिती निवड/१८६ दिनांक २ सप्टेंबर, २०२०)

## 12. Book Published:

## I. One of Author:

1. Practical Handbook of Botany- B. Sc. I: 2022.

ISBN No. 978-93-93220-25-7

**Publication**: Success publication, Pune (S. No. 30/27, Laxmi Industrial Estate, Near Prabhat News Paper, Dhayari, Pune-41.

2. Practical Handbook of Botany- B. Sc. II: 2022.

ISBN No. 978-81-19939-51-0

**Publication:** Success publication, Pune (S. No. 30/27, Laxmi Industrial Estate, Near Prabhat News Paper, Dhayari, Pune-41.

## II. Worked as Editor:

Text Book- **Cell and Molecular Biology** {Applicable to all Universities, Other equivalent Organizations and National Education Policy (NEP) 2020)}

**ISBN:** 978-81-966170-1-1

**Publication:** My Rays Publication Centre, S. No. 66, Near Sai Baba Temple, Satav nagar, Handewadi, Hadapsar, Pune-411028, Maharashtra.

# 13. Publications (Research P: Paper Published in National and International Journal:

Sr. No.	Author (S)	Title	Name of journal	Volume	Page	Year
1	Somade Prakash M., Kirtane Sushama A. Jadhav Prakash D. and Pratik P. Somade	In-vitro anti- bacterial and cytotoxic activity of Rubiadin	International Journal of Biology, Pharmacy Allied Science.	11(7)	2984- 2989	2022
2	Kirtane Sushama A. and Jadhav Prakash D.:	In-vitro evaluation of glucose diffusion and amylolysis kinetics of betaglucogallin.	World Journal of Pharmaceutical Research, (https://wjpr.net/)	10(12)	01-06.	2021
3	Kirtane Sushama A. and Jadhav Prakash D.	In-Vitro Evaluation for Glucose Diffusion and Kinetics of Amylolysis of Rubiadin.	Int. J. Sci. Research methodology www.ijsrm.humanjo urnals.com	19(3)	29-35	2021
4	<b>Kirtane Sushama A.</b> and Jadhav Prakash D.	Evaluation of Antibacterial and cytotoxic activity of Beta- glucogallin.	Int. J. All Research Education and Scientific Methods (IJARESM). (www.ijaresm.com)	9 (9)	597- 600	2021
	Jadhav Prakash D. and Kirtane Sushama A.	Evaluation of In- Vitro Antioxidant Activity of Leea macrophylla Standardized Extracts.	J. Current Pharma Research, 2. (www.jcpr.hu manjournals.com)	12(4)	13-19.	2021

6	Kirtane Sushama A., Jadhav Prakash D. and Somade Prakash M.	In-Vitro Evaluation of glucose diffusion and amylolysis kinetics of Niranthin.	International J. Innovative Research in Multidisciplinary field	7 (9)	135- 138	2021
7	Kirtane Sushama A.	in Nutritional Descends in Coionea		9 (6):	1182- 1188.	2021
O	Sushama Kirtane, K.N. Dhumal and S.D. Ramteke	Studies on gamma radiation induced variability in photosynthetic activities in onion (L.)	Annals of Plant Physiology	32(2)	1-3	2019
9	Kirtane Sushama. A.	Gamma Irradiation Induced Variability In Qualitative And Quantitative Traits In Onion (Allium Cepa L.).	Int. J. Bioved	29 (1)	39-43	2018
10	Kirtane Sushama A.	Effect of Leaf Extract of Verbascum chinense (L.) Santapau on Seed Germination and Seedling Growth of Onion (Allium cepa L.)	International Journal of Scientific Research in Science and Technology (IJSRST), Print ISSN: 2395-6011, Online ISSN: 2395-602X. <a href="http://ijsrst.com/IJSRST1845509">http://ijsrst.com/IJSRST1845509</a>	4 (5),	1848- 1852	2018
11	Sushama A. Kirtane	Comparative Mutagenic Effectiveness and Efficiency of Sodium Azide and Gamma Radiation in Onion (Allium cepa L.).,	International Journal of Theoretical & Applied Sciences (ISSN No. (Print): 0975-1718, ISSN No. (Online): 2249- 3247)	10(1)	169- 173.	2018.
12	<b>Kirtane Sushma A.</b> and Jadhav Pravin.	Mutagenic effect of Maleic hydrazide on seed germination and	International Journal of Research and Analytical Reviews (IJRAR),	5(4)	50-51.	2018.

		111				
		seedling growth of				
		Nigella sativa L.				
	T7:4	Indeed Courts	Tuon do in	10 (22)	4470	2017
13	Kirtane	Induced Genetic	Trends in Biosciences	10 (22)	4472- 4476	2017
	Sushama A.	Variability and	Diosciences		44/0	
		Improvement In				
		Morpho-				
		Agronomic Characteristics by				
		Combinations of				
		Physical and				
		Chemical				
		Mutagens				
		Studies On				
		Induced Mutations				
14	Sushama A.	In Onion:	Flora & Fauna	20 (2)	255-	2014
	Kirtane	Variations In			259	
		Quantitative And				
		Qualitative				
		Characteristics				
		Induced By				
		Sodium Azide.				
		Studies on				
15	Sushama A.	Induced Mutations	Biological Forum	6 (2)	141-	2014
	Kirtane	in Onion:	Diological I oralli	0 (2)		2011
		Frequency and			144	
		Spectrum of				
		Chlorophyll				
		mutations. Studies on	Asian Academic			
		Studies on induced mutations	Research Journal of			
		in onion: effect of		1	119-	2014
16	Kirtane	combination	Widitidiscipillary		129.	
	Sushama A.	Treatments of			12).	
		gamma radiation				
		and sodium azide				
		on Biological and				
		biochemical				
		parameters of				
		onion (Allium				
		cepa L).				
	Sushama	Studies on induced	Allium			
17	Kirtane	mutations in onion-	Improvement	13	22-33	2004
		IV) Frequency and	Newsletter USA).			
	Dhumal	spectrum of viable mutations.				
	Sushama	Induced	Allium			
	Susnama Kirtane,	physiological	Improvement	13	11-21	2004.
	,	damage by physical	Newsletter (USA).	1.5	11-41	200 <del>4</del> .
18	_	and chemical	riewsieller (USA).			
10		mutagens in three				
	•	varieties of onion.				
L				1	I	

	Dhumal					
19	Sushama Kirtane and K. N. Dhumal.	Studies on induced mutations in onion: Biological and cytological effects of mutagen in M <sub>1</sub> generation.	Int. J. Mendel	21(1-2)	11-13	2004
20	Sushama Kirtane and K. N. Dhumal.	Role of induced	Int. J. Mendel	20(3-4)	109- 110	2003
21	Sushama Kirtane and K. N. Dhumal.	Cytotoxic and clastogenic effect of Gutkha on root tip meristem of <i>Allium cepa</i> L	Allium Improvement Newsletter (USA),	12	1-4	2002
22	A. P. Trivedi, K. E. Lawande, Sushama Kirtane and K. N. Dhumal.	Studies on growth parameters in different genotypes of onion (Allium cepa L)	Allium Improvement Newsletter (USA),	11	23-26.	2001
23	Sushama Kirtane, K. E. Lawande, A. P. Trivedi and K. N. Dhumal	, 	Allium Improvement Newsletter (USA),	11	4-6	2001
24	Sushama Kirtane, S. L. Laware and K. N. Dhumal	Effect of Ultragin and Tribhuvan kirti on root tip cells of <i>Allium cepa</i> L.	J. Cytology Genetics	34(2)	147- 151	1999

## **II. Paper Published in Proceeding:**

- 1. **Kirtane Sushama A. 2022.** Induced Mutation for Improvement in Nutritional Quality of Pulse Crops. In: International e-Conference on New Horizons and Multidisciplinary Applications in Science and Technology In Association with International Journal of Scientific Research in Science and Technology Volume 9 | Issue 6 | Print ISSN: 2395-6011 | Online ISSN: 2395-602X (www.ijsrst.com) PP. 1082-1088
- 2. **Kirtane Sushama A. 2015.** Efficacy of leaf extract of a medicinal plant for enhancing seed germination and seedling growth of Onion (*Allium cepa* L) pp. 73-76. In: Proceeding of Conference "Modern trends in Rural management and development: a Paradigm shift"

- Organized by BVDU-Institute of Management and Rural development administration, Sangali on 28<sup>th</sup> and 1<sup>st</sup> Mar. 2015.
- 3. **Kirtane S. A. 2013.** Mutagenic Effect of sodium azide on *Solanum Xanthocarpum*. In: Proceeding of *Conference on* "Recent trends in plant sciences, its future prospects and biodiversity conservation" Organized by Yashwantrao Chavan College of Science, Karad. 29-30 Nov. 2013. pp. 124-126.
- 4. Sushama Kirtane, K. E. Lawande, Anil Khar and K. N. Dhumal. 2000. Physiological and macromolecular variation induced by gamma radiation and sodium in onion (*Allium cepa* L). DAE-BRNS symposium on the "Use of nuclear and molecular techniques in crop improvement" Dec. 6-8, 2000. Bhabha Atomic Research Center (BARC), Mumbai-400085. pp. 285-288.

## III: Compendium:

Dr. **Kirtane Sushama Anandrao 2020.** Mangroves: The Boon of nature PP. 168. In: Climate Change, Mangrove & Management, June 2020 ISBN: 978-93-88901-10-9. Bhumi Publishing, Nigave Khalasa, Kolhapur, 416207, Maharashtra, INDIA

#### 14. Participation and presentation of research paper in Conferences:

#### I. International Conference:

Attended and Presented Research Paper in -3rd International Crop Science

Congress held at CCH-Hamburg (Germany) on 17th –22nd Aug. 2000.

- Kirtane Sushama A. 2022. Influence of hibiscus Acetosella Leaf Leachate on growth of Solanum khasianum In: International Conference on "Innovative trends in Life Sciences" organized by Sadguru Gadage Maharaj College, Karad on 11<sup>th</sup> & 12<sup>th</sup> Mar. 2022.
- 2. Sushama Kirtane 2021. Seed germination studies in Withania coagulans (Paneer phool). In: International e-Conference On "New Horizons and Multidisciplinary Applications In Science And Technology (ICMA-2021)" on 11<sup>th</sup> to 13<sup>th</sup> October 2021 Organised by Faculty of Science and IQAC, Shri Vitthal Rukhmini College, Sawana, (Tq. Mahagaon Dist. Yavatmal, Maharashtra, India.
- 3. Jadhav Pravin And **Kirtane Sushama 2021** Effect of Aqueous Root Extract of Alternanthera Sessilis on Seed Germination of Andrographis Paniculata. In: Ebid
- 4. Rutuja Pradip Bhosale and **Sushama Kirtane 2021** Effect of aqueous root extract of Hibiscus cannabinus L. on seed germination of Macrotyloma uniflorum (Lam.) Verdc. In: Ebid

5. Kirtane Sushama A. 2020. Improvement in nutritional quality of pulse crops through induced mutation In: Online One Day International Conference on "Recent Trends in Plant Sciences" 15th May 2020, Organized by - Shri D.H. Agrawal Arts, Shri Rang Aavadhoot Commerce & Shri C.C. Shah & Shri M.G. Agrawal Science College, Navapur Dist. Nandurbar, Maharashtra, India

## 6. 1st Prize- for Poster presentation

International Conference on- Emerging trends in delivery of phytoconstituents and Ethnopharmacology validation of Traditional Medicine II, Organized by Poona College of Pharmacy, Bharti Vidyapeeth, Pune on 29<sup>th</sup> -30<sup>th</sup> Nov. 2019.

- 7. Kirtane Sushama 2016. Effectiveness of traditional seed treatment method to break dormancy in a medicinal plant: *Solanum khasianum* (Clarke) presented paper in the International Conference on Advances in Asian Medicine- Symposium on Ethnopharmacology Validation of Traditional Medicine, organized by Bharati Vidyapeeth University–Poona College of Pharmacy on 4<sup>th</sup> January 2016.
- 8. **Kirtane Sushama** 2015. Induced variations in morpho-agronomic characteristics of onion (Allium cepa l.) International conference on -Contemporary research in chemical and life sciences-2015. Organized by Sadguru Gadage Maharaj College, Karad on 22<sup>nd</sup> and 23<sup>rd</sup> April, 2015
- 9. **Kirtane Sushama 2015**. Cytotoxic and mitodepressive effect of papadkhar (alkaline salt). International Conference on Climate Change and Sustainability (IC3S 2015) organized by Thakur College of Science and Commerce on 19th 21st Dec. 2015.
- 10. **Kirtane Sushama A. 2015.** Efficacy of Leaf extract of a medicinal plant for enhancing seed germination and seedling growth of Onion. BVCON-15 National Conference on Modern Trends in Rural Management and Development: A Paradigm Shift, organized by Bharati Vidyapeeth Deemed University, Pune Institute of Management and Rural Development Administration, Sangali on 28<sup>th</sup> Feb. and 1<sup>st</sup> Mar. 2015.
- 11. **Kirtane Sushama A. 2014.** STUDIES ON INDUCED MUTATIONS IN ONION: Variations in quantitative and qualitative characteristics induced by sodium azide. National Conference on- Life Sciences: An Outlook & Challenges" Organized by-Dahiwadi College, Dahiwadi on 12<sup>th</sup> & 13<sup>th</sup> Sep. 2014.
- 12. **Sushama Kirtane**, K. E. Lawande and K. N. Dhumal. 2000. Mutagenic effects in onion (Allium cepa L). 3rd International Crop Science Congress held at CCH-Hamburg (Germany) on 17th –22nd Aug. 2000.

- 13. **Sushama Kirtane**, K. E. Lawande and K. N. Dhumal. 2000.International Conference of SAARC countries on Biotechnology in Agriculture, Industry and Environment, at KARAD (MS) India on 28<sup>th</sup> –30<sup>th</sup> Dec. 2001.
- 14. **Sushama Kirtane**, S. L. Laware and K. N. Dhumal. 1998. Mitodepressive and cytotoxic effects of Gutkha on root tip mitosis (*Allium cepa* L). Second Vishwa Vaidya Sammelan (Second world Conference) on Ayurved and Medico-Botany, Furgussion college, Pune. Oct. 26<sup>th</sup> 1<sup>st</sup> Nov. 1998.
- 15. **Sushama Kirtane**, S. L. Laware and K. N. Dhumal. 1998. Effect of Ultragin and Tribhuvan kirti on root mitosis in *Allium cepa* L.- A comparative study. Second Vishwa Vaidya Sammelan (Second world Conference) on Ayurved and Medico-Botany, Furgussion college, Pune. Oct. 26<sup>th</sup> 1<sup>st</sup> Nov.
- 16. Sushama Kirtane, K. E. Lawande and K. N. Dhumal. 2001. Mutagenic effects in onion-IV) Gamma radiation induced cytophysiological and macromolecular changes in onion (*Allium cepa* L) var. Baswant-780. International conference of SAARC countries on Biotechnology in agriculture, Industry and Environment. 28<sup>th</sup> 30<sup>th</sup> Dec. 2001, Karad (MS).

## **II.** Participation and presentation of research paper in National Conference:

- Sushama Kirtane and K. N. Dhumal 1998. Cyto-physiological effects of sodium azide in *Allium cepa* L. VIIth All India Conference on Cytology and Genetics and symposium on molecular genetics and biotechnology. Gulberga University, Gulberga (Karnataka), Oct. 26<sup>th</sup> – 28<sup>th</sup>.
- **2. Sushama Kirtane**, S. L. Laware and K. N. Dhumal. Analysis of mutagenic effects of gamma rays in onion (*Allium cepa* L). 1998. SUSAMVAD, Golden Jubilee Research Student Seminar, University of Pune, Pune –411007. Dec. 4-5<sup>th</sup>, 1998.
- **3.** K. N. Dhumal, **Sushama Kirtane**, S. L. Laware, Anil Khar and K. E. Lawande. 1999.Morphogenic and Macromolecular analysis of combined mutagenic effects of sodium azide and gamma radiations in onion (*Allium cepa* L). 10<sup>th</sup> All India Congress of Cytology and Genetics, Oct. 29<sup>th</sup>-31, 1999.Department of Zoology, University of Kalyani, Kalyani-741235 (WB).
- **4. Sushama Kirtane**, S. L. Laware, Anil Khar, K. E. Lawande and K. N. Dhumal. 2000. Effect of chemical mutagen on bulb morphology, physiology and yield in onion (*Allium cepa* L). 2000. Indian Science Congress, department of Botany, University of Pune, Pune-411007. Jan. 3-7, 2000.

- **5. Sushama Kirtane**, S. L. Laware, K. E. Lawande and K. N. Dhumal. 2000. Induced macromolecular variability in onion (*Allium cepa* L). National symposium on Onion and Garlic production and post harvest management challenges and strategies. Nov. 19<sup>th</sup>-21, 2000. Krishi Vigyan Kendra, YCMOU, Nashik (MS), pp. 186.
- 6. Sushama Kirtane, S. L. Laware, Anil Khar, K. E. Lawande and K. N. Dhumal. 2001. Mutagenic studies in onion (*Allium cepa* L)- Macromolecular Analysis. Eighth All India Conference on Cytology and Genetics. Jan. 23-25, 2001. Banglore University, Banglore, pp. 50.
- 7. Sushama Kirtane, K. E. Lawande and K. N. 2001. Dhumal.Mutagenic effects in onion –I) Effect of sodium azide on physiological and biochemical changes in onion (*Allium cepa* L). UGC sponsored National Conference- Plant Biotechnology for Indian Agriculture, 7<sup>th</sup> –8<sup>th</sup> Oct. Vasantrao Naik Mahavidyalaya, Aurangabad. Aurangabad- 431003. pp. 70.
- **8.** Dhumal K. N., **Sushama Kirtane**, Sagar Datir and K. E. Lawande. Studies on gamma radiation induced cytophysiological and biochemical changes in onion (*Allium cepa* L). 2001. National seminar on role of plant physiology for sustaining quality and quantity of food production in relation to environment, Dec. 5-7, 2001. Dept. of Crop Physiology, University of Agricultural Science, Dharwad (Karnataka).
- **9. Sushama Kirtane**, K. E. Lawande and K. N. Dhumal. Effect of EMS on physiological and biochemical changes in onion (*Allium cepa* L). 2001. Ebid, pp. 95.
- 10. Sushama Kirtane and K. N. Dhumal 2003 Sodium azide and gamma radiation induced macromutations in onion (*Allium cepa* L). 2003. In: National seminar on- Advances in genetics and plant breeding- Impact of DNA revolution, Oct. 30-31, 2003, UAS, Dharwad.
- 11. Sushama Kirtane, 2013. Male sterility induced by combination treatments of gamma radiation and sodium azide. UGC sponsored National Seminar on "Recent trends in Biodiversity and Environment Science, organized by Bharati Vidyapeet's Matoshri Bayabai Shripatrao Kadam Kanya Mahavidyalaya, Kadegaon, Dist. –Sangali on 3<sup>rd</sup> 4<sup>th</sup> Oct. 2013.
- **12. Sushama Kirtane 2014.** STUDIES ON INDUCED MUTATIONS IN ONION: Variations in quantitative and qualitative characteristics induced by sodium azide.National Conference on- Life Sciences: An Outlook & Challenges" Organized by- Dahiwadi College, Dahiwadi on 12<sup>th</sup> & 13<sup>th</sup> Sep. 2014
- **13**. Bhosale Rutuja1, **Kirtane Sushama** 2022 Mutational studies in Macrotyloma uniflorum (Lam.). Verdc. I. Effect of EMS on seed germination and seedling length. In: One day

- National conference on Recent Advances in Biological Science and Biodiversity Conservation (RABSBC-2022) organized by Department of Botany, Shri. Shivaji Mahavidyala, Barshi on 28th December 2022.
- **14**. Bhosale Rutuja1, **Kirtane Sushama 2022**. Mutational studies in *Macrotyloma uniflorum* (Lam.) Verdc. Effect of Gamma Radiation on seed germination and Seedling length. In: Research Book- National Conference on Biodiversity and Biosciences held at Rayat Shikshan Sanstha's, Balwant College, Vita on 29<sup>th</sup> Dec. 2022. ISBN Number: 978-81-956739-6-4.
- **15.** Saish Shinde<sub>1</sub>, Manasi Masugade, Nehali Nikam, Nilofar Shikalgar, Rutuja Bhosale, Pramodini Kamble and **Kirtane Sushama 2022.** Primary detection of phytochemicals from traditionally used wild vegetables. Ebid.
- **16.** Kamble P. B., **Kirtane S. A** 2022. Nutritional Analysis of Traditional Vegetable- Cassia fistula L. From Khatav Tehsil. Ebid.
- 17. Saish Shinde, Manasi Masugade, Nehali Nikam, Nilofar Shikalgar, Harsh Mali, Rutuja Bhosale and **Kirtane Sushama** 2023. Qualitative phytochemical analysis of wild vegetables. In: Two Days National Conference on Green Chemistry and Advanced Materials (GCAM-2023) Organized by Yashwantrao Chavan College of Science, Karad on 14th and 15th March 2023. Pp. 97.
- **18.** Rutuja Bhosale, Trupti Lade and **Kirtane Sushama** 2023. Primary detection of phytochemicals from medicinal plants: *Plumbago zeylanica* L. and *Synedrella nodiflora* L. pp. 98. Ebid.
- **19.** Trupti Lade, Pratima Tatke and **Sushama Kirtane** 2023. Formulation and evaluation of bio-adhesive bandage for bone fracture. pp. 100. Ebid.
- 20. Rutuja Bhosale and Kirtane Sushama 2024. Gamma Rays and EMS Induced Chlorophyll Mutation in M2 Generation of Horsegram in National Conference on Emerging Trends in Science and Technology organized by the Faculty of Science and IQAC, Yashwantrao Chavan Mahavidyalaya, Halkarni Tal- Chandgad, dist- Kolhapur on 20th January 2024.
- 21. Rutuja Bhosale and Kirtane Sushama 2024. Mutagenic Effectiveness and Efficiency of Gamma Rays in Macrotyloma uniflorum (Lam.) VERDC. In: 6th National Conference on Recent Trends in Pure and Applied Sciences (RTPAS-2024) organized Dr. Parangrao Kadam Mahavidyalaya, Sangli on 17th February 2024.

#### 15. Webinar:

Organized: 12,

#### 16. Life member of Journals:

1. The Indian Journal of Genetics and Plant Breeding- An International Journal of Genetics, Plant Breeding and Biotechnology. The Indian Society of Genetics and Plant Breeding. Indian Agricultural Research Institute, New Delhi-110 012.

#### 2. International Journal "Mendel"

Mendelian Society of India, 194-B, Krishnna Puri, PATNA-800 001. (INDIA).

**3. Trends in Biosciences** (Online ISSN 0976-2485, Print: ISSN 0974-8431) published by DSAS&RD. Membership Code :1441-TIBS-A-2017.

## 17. Details of Projects completed.

S. No.	Title	Cost in Lakh	Duration	Role as PI/Co-PI	Agency
1	Mutational Studies in a Medicinal Plant- <i>Solanum</i> indicum.	Rs. 90,000/-	2-years	Role as PI	UGC

## 18. Participation in Workshop:

Workshop on "Molecular Biology Techniques" organized by Department of Microbiology, Wilson College, Mumbai-400 007 during 19<sup>th</sup> -23<sup>rd</sup> Aug. 2014.

## 19. Participation in training courses-

- Training on various techniques in molecular biology under the guidance of Dr. Major Singh, Scientist, Indian Institute of Vegetable Research, Varanashi- 221005. (UP) India. (Duration- 16<sup>th</sup> April to 4<sup>th</sup> May, 2001)
- 3. Training on measure of various physiological parameters in wheat and chickpea under the guidance of Dr. P. S. Deshmukh, Senior Scientist, Plant physiology Division, Indian Agricultural Research Institute (IARI), New Delhi-110012. (Duration- 22<sup>nd</sup> to 25<sup>th</sup>Jan. 2002)

#### 20. Co-ordinator:

1. Worked as Co-ordinator for UGC Sponsored National Conference On Recent trends in plant sciences, its future prospects and biodiversity conservation. Organized by Department of Botany, Yashwantrao Chavan College of Science, Karad during 29-30 Nov. 2013.

- 2. Faculty Development Programme on "Cyber Security" organized by Faculty Development Centre in Cyber Security and Data Sciences, Shivaji University, Kolhapur hosted by Yashwantrao Chavan College of Science, Karad conducted by FDC PMMMNMTT, during 2<sup>nd</sup> July to 8<sup>th</sup> July, 2019.
- 3. One Day National Webinar entitled "Science, Environment and Human Health" jointly organized by Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of MHRD and Yashwantrao Chavan College of Science, Karad, Maharashtra on 02 July 2020

#### 21. Guest lecture:

- 1. Loknete Mohanrao Kadam College of Agriculture, Kadegaon Topic: Mutation Breeding
- 2. Smt. Sushilatai Desai College, Daulatnagar (Marali): 15/02/2019
- 3. Balasaheb Desai College, Patan: 15/02/2019

## 22. Invited Talk on "Women Empowerment"

- 1. National level webinar organized by SICS societies, Degree college of Arts, Commerce and Science College Ambarnath, Mumbai on the occasion of International Women Day, 8<sup>th</sup> March, 2021.
- 2. National webinar entitled "Socio-Economic Status of Women in India: Ancient to Morden Era" organized by Kisanveer Mahavidylaya, Wai on 15<sup>th</sup> June, 2021.
- National webinar on "Status of Women in Ancient and Modern India" organized by Shree Santkrupa Shikshan Sanstha's, College of Pharmacy (D. Pharm) Ghogaon, on 10<sup>th</sup> Feb. 2022.
- 4. National webinar on "Journey of Women Empowerment in India" organized by Balasaheb Desai Foundation's Smt. Vijayadevi Desai Senior College, Daulatnagar, Patan on 18<sup>th</sup> Feb. 2022.
- 5. Student, Faculty Development Program organized by Kasegaon Education Society's, Rajarambapu College of Pharmacy, Kasegaon, on 2 March, 2022. Title of speech- "Status of Women in India: Ancient, Medieval and modern"

6. Webinar on "Women empowerment" organized by P.E.S. Modern college, Shivajinagar, Pune, on 8<sup>th</sup> March, 2022.

## 23. Organizing secretary:

- 1. Special Lecture Series on "Career Opportunities in Botany" 24-26 June, 2021.
- 2. National webinar on "Sustainability Science: A multidisciplinary Approach" 9<sup>th</sup> Feb. 2022.
- 3. National Webinar- Overview on Science & Literature 28.02.2022
- 4. National webinar on "Multimedia enriched E-content Development for effective online teaching" 01.03. 2022.
- 5. National Webinar on- Snake identification, misconception and Snakebite mitigation 03.03.2022
- 6. International Women Day- State Level Webinar on Prevention of Sexual Harassment- 08.03.2022.
- 7. A Webinar on Zero Shadow Day- A Special Celestial Event: 08.05.2022.

## National webinar- Celebration of Bicentenary of "Mendel" – Organization of Webinar Series

- 8. Resource person: Dr Rupesh Bedere 22.07.2022
- 9. Resource person: Dr. M. G. Palshetkar 23.08.2022
- 10. Resource person: Dr. N. B. Gaikwad 22.09.2022
- 11. National webinar on "World Ozone Day"- "Ozone treaties and sustainable goals" 16.09.2022.
- 12. Online Collaborative campaign for "Green Earth and Sustainable Future" on WORLD EARTH DAY 22 April, 2024 organized by Yashwantrao Chavan College of Science, Karad, MAESA FOUNDATION, PUNE and "Botany For sustainable Future" on 22.04.2024.
- 13. A Webinar, organized on the occasion of "World Environment Day- 5<sup>th</sup> June" by Government Science College, Gadchiroli, Yashwantrao Chavan College of

- Science, Karad, Late Karmaveer Dr. P. R. Ghogrey Science College, Dhule and "Botany for Sustainable Future" on 5<sup>th</sup> June, 2024.
- 14. A Webinar, Organized on the occasion of "World Nature Conservation Day (28th July)" by Government Vidarbha Institute of Science and Humanities (Autonomous) Amravati, Yashwantrao Chavan College of Science, Karad, Rashtrapita Mahatma Gandhi Arts, Commerce and Science College, Saoli, District Chandrapur and "Botany for Sustainable Future" on 27th July, 2024.

## 24. Resource person:

## I. For one day workshop on "Cocoon handicrafts"

- 1. Krishna Mahavidyalaya, Rethare- 14.02.2017
- 2. Smt. Vijayadevi Desai Science and Commerce Senior College, Daulatnagar, Patan s29/01/2019.
- 3. Yashwantrao Chavan Institute of Science, Satara 28.08.2019.
- 4. Balasaheb Desai College, Patan, District Satara- 16.01.2020
- 5. Yashwantrao Chavan Institute of Science, Satara 27.03.2021.
- 6. Yashwantrao Chavan Institute of Science, Satara 16.03.2022.
- 7. D. P. Bhosle College, Koregaon, Dist. Satara- 26.12.2023
- 8. Yashwantrao Chavan College of Science, Karad- 22.02.2024
- 9. Yashwantrao Chavan College of Science, Karad 16.08.2024

## II. For Changed Syllabus Workshop:

- i) One Day Online Teachers' Workshop on the Revised (CBCS) Syllabus of Botany for B. Sc. III (Theory) Paper IX & X on 6 February, 2021 Organized by the Department of Botany, M. H. SHINDE MAHAVIDYALAYA, TISANGI, Tal- Gaganbavada, Dist- Kolhapur.
- ii)One day Workshop on 'New Changed Syllabus (CBCS) and NEP 2020 of B.Sc. Part-II (Practical) Botany organized by Vishwas Shikshan Prasarak Mandal's Deshbhakt Anandrao Balwantrao Naik Arts & Science College Chikhali, Tal Shirala, Dist Sangli. 415408on Friday, 13th October, 2023

25. Member of Sub- committee of Changed Syllabus of B.Sc. III- 2024-Shivaji University, Kolhapur

## 26. ICT-Tools & Techniques Used:

https://drive.google.com/file/d/14EHT6WmW-erYud75DQH86HdZHK8Vqnmr/view?usp=sharing