

BIO-DATA

- Name:** Dr. S.P. Chavan (Smita Pandurang Chavan)
- Designation:** Assistant Professor
- Date of Birth:** 2nd March 1984.
- Name of the Institution, where employed:**

M.J.M Arts, Commerce and Science, College
At/Po. Karanjali, Tal. Peth, Dist. Nashik,
Maharashtra State, India.



5. Residential Address (address for correspondence):

Dr. Smita Pandurang Chavan
Flat. No. 301, Tulsi vandan Building, Dugra Nagar, Near RTO Office,
Peth road, Nashik.
Mobile: 9011044960; 9011044959
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6. Date of Joining: 30th July 2016.

7. Gender: Female

8. Marital Status: Married.

9. Languages Known: English, Marathi, Hindi.

10. Educational Qualifications:

Degree	Institution/ College	University	Year	Result
Ph.D. (Botany)	Department of Botany, University of Pune	University of Pune	2010	Awarded
M.Sc. (Botany)	Department of Botany, Ahmednagar college, Ahmednagar	University of Pune	2006	First Class
B.Sc. (Botany)	Mudhoji College, Phaltan	Kolhapur University	2004	First Class

11. Research Experience: 15 years.

(a) Doctoral research (Ph.D.) January 2007- March 2010.

Worked on “Studies on *in vitro* production of alphanocopherol and pigments in *Carthamus tinctorius*” under the guidance of Professor, Dr. T. D. Nikam, at the Department of Botany, University of Pune, Pune, India.

(b) Project Fellow: July 2008- July 2009.

Worked as UGC Project Fellow on “Development of low cost technology for *Spirulina* biomass production at household level” under the guidance of Professor, Dr. T. D. Nikam, at the Department of Botany, University of Pune, Pune, India.

(c) Project Work at Postgraduate level:

“Studies on effect of Agnihotra Ash and Panchagavya on crop yield.”

(d) Summer Training Project:

Tissue culture studies of some cereals and Bioinformatics studies at Vidya Pratishthan's, School of Biotechnology Vidyanagari, Baramati.

12. Orientation/Refresher/FDP completed

Name of Course	Place	Duration	Funding Agency
171 st General Orientation Programme	Savitribai Phule Pune University	14/11/2019 to 04/12/2019	UGC
FDP on “Managing Online classes and co-creating Moocs:2.0	Pandit Madan Mohan Mahavidyalay, Delhi University	18/05/2020 to 03/06/2020	UGC
FDP on “Open Source Tools for Research”	Pandit Madan Mohan Mahavidyalay, Delhi University	08/06/2020 to 14/06/2020	UGC
Refresher course on “Advanced Research Methodology 2.0”	Pandit Madan Mohan Mahavidyalay, Delhi University	17/06/2021 to 01/07/2021	UGC
FDP on Agricultural Reforms.	Maratwada Mitra Mandal’s Shankarrao Chavan Law College, Pune in collaboration with University of Colombo, Shrilanka.	20/04/2022 to 29/04/2022	UGC
Online Two – Week Refresher Course in “BOTANY”	Government Arts College (Autonomous), Karur, Tamil Nadu, India.	18/02/2023 to 04/03/2023	UGC

13. Research Publications:

A. Papers published:

- A.S. Jondhale, S.P. Chavan, S.A. Jondhale and B.D. Wagh (2023)** Allelopathic Effect of *Parthenium hysterophorus* (L.) on the Seed Germination and Seedling Growth of Sorghum Seeds. *Ecology, Environment & Conservation*. 29 (November Suppl. Issue): S226-S231.
- Memon, A. A. S. P. Chavan and A.S. Jondhale (2022)** Allelopathic effect of weed extracts on seed germination of *finger millet*. *Ecology, Environment &*

Conservation. 29 (April Suppl. Issue): S26-S30. DOI No.: <http://doi.org/10.53550/EEC.2023.v29i02s.005>.

3. **Smita. P. Chavan and Avinash. S. Jondhale** (2021) Identification, Documentation and Utilization of Wild Green Leafy Vegetables from Tribal Region of Nashik District. **Plantae Scientia**. (ISSN 2581-589X). 5(2): 49-56.
4. **A.S. Jondhale and S.P. Chavan** (2021) Effect of Aqueous extract of *Parthenium hysterophorous* (L) and *Cyanodon dactylon* (L) on the seed germination seedling growth of Chickpea seeds. *Journal of Soils and Crops*. 31(2):350-354.
5. Published book chapter “Genetic Engineering in Safflower (*Carthamus tinctorius* L): Retrospect and Prospect. **Kirti M. Nitnaware, Vikas B. Naikawadi, Smita P. Chavan, Deepak B. Shelke, Rajkumar B. Barmukh, Archana A. Naik, and Tukaram D. Nikam**. Springer Nature Singapore Pte Ltd. 2021 201 P. B. Kavi Kishor et al. (eds.), *Genetically Modified Crops*, <https://doi.org/10.1007/978-981-15-5897-9-10>.
6. **Smita Chavan and Avinash Jondhale** (2021). Exploration and documentation of some more wild edible food plants from tribal region of Peth tehsil, Nashik district (Maharashtra.) India. **International Journal of Botany Studies**. ISSN: 2455-541X. 6(2): 360-366.
7. **A.S. Jondhale and S.P. Chavan** (2021) Utilization and Primary Survey of Timber Yielding plants in Tribal Region of Peth Taluka, Nashik, India. **International Journal of Pharma and Bio Sciences**. **ijpbs 2021; doi 10.22376/ijpbs.2021.12.2.b17-21**.
8. **Wagh. B.D., Jondhale.A.S and S. P. Chavan** (2021) Preliminary Phytochemical Investigation of the Root, Stem and Leaf methanol Extracts of *Oxalis corniculata* (L.). **International journal of Pharmacy and Biological Sciences**. ISSN: 2321-3272. 11 (1): 136-140.
9. **A.S. Jondhale and S.P. Chavan** (2020) Genetic improvement of *centella asiatica* for high yield of saponins through colchicine treatment. **Plant Archives**. ISSN:0972-5210. 20 (2): 8546-8550
10. **Wagh. B. D, Jondhale. A. S and S. P. Chavan** (2019) Aquatic Macrophytic Diversity in Deothan Reservoir of Akole Tahsil, Ahmednagar, Maharashtra. **Journal of Emerging Technologies and Innovative Research**. 6 (2) (ISSN-2349-5162).

11. **Afra Akbani, Dr. Smita Chavan and Arti Sharma** (2018) To study phytochemical and antimicrobial activity of *Calotropis procera* leaf extracts. **World journal of pharmaceutical Research**. ISSN 2277– 7105. 7 (9):780-786.
12. **A.S.Jondhale, S.P.Chavan and B.D.Wagh** (2018) Ethenomedicinal survey of peth tribal region of Nashik district in Maharashtra. **International journal of researches in biosciences, agriculture and technology**. 6(2) :177-181
13. **Chavan SP** (2017) Studies on effect of plant growth regulators on callus induction from cotyledon explants of *Carthamus tinctorius* L. **Indian Journal of Plant Sciences**. ISSN: 2319 –3824. 6 (2): 80-83.
14. **Jondhale AS., Chavan SP., Chorate JS and Borase DL** (2017) Effect of *Cassia obtusifolia* seed germination and growth of *Vigna unguiculata* (L.). **Advanced Materials and Innovative Processing Ideas**. ISBN: 978-93-24457-18-1.
15. **Jondhale. A.S. and S.P. Chavan** 2016. “HPLC Analysis of Bioactive Compound of the Leaves of *Centella asiatica* (L.)”. **International Journal of Recent Trends of Science and Technology**, Special Issue: 56-60.
16. **Dr. Chavan SP and AS Jondale** (2016) Phytochemical screening of crude extract of *Datura metel* leaves. International Refereed Multidisciplinary Journal of Contemporary Research, ISSN: 2320-3145, Print ISSN: 2319-5789: 167-170.
17. **Dr. S.P Chavan, Dr. S. G. Auti and Miss. S.A. Borade** (2015) Analysis of water quality using physiochemical parameters of Godavari River at selected stations of Nashik city. **Journal of Advanced Chemical Sciences**. ISSN: 2394-5311 1(4): 151–153.
18. **Dr. Smita Chavan and Prof. Tukaram Nikam** (2015) Influence of some precursors supplement on growth and production of alphotocopherol and pigments in callus and cell suspension cultures of *Carthamus tinctorius* L. **World Journal of Pharmaceutical Research**. ISSN: 2277- 7105,4 (4): 1734-1742.
19. **Chavan SP, Lokhande VH, Nitnaware KM and Nikam TD** (2010) Influence of biotic and abiotic elicitors on cell growth, alphotocopherol, red and yellow pigments accumulation in cell cultures of *Carthamus tinctorius* L. **Applied Microbiology and Biotechnology** DOI. 10.1007/s 00253-010-3014-4.
20. **L. Ajungla, S. Chavan, A. Parale, M. L. Ahire and T. D. Nikam** (2009) Production of hyoscyamine and scopolamine in shoot and root culture (liquid

culture) of *Datura metel* L. **Plant Cell Biotechnology and Molecular Biology**, ISSN 0019-6339. 10 (3&4): 145-152.

Text book:

Dr. Vidya. V. Patankar, Dr. Smita. P. Chavan & Mr. Kiran. B, Arangale. Biochemistry. 2023. (T.Y. B.Sc. Sem-VI). Success Publication, Pune (MS), India, ISBN No.978-93-24457-56-6.

Research Guidance:

Sr.No	Name of the Students	Research Topic	Date of Registration	Guide/Co-Guide	Status
1	Miss.Nisha Balu Surywanshi	Phytochemical Screening and Green Synthesis of Silver Nanoparticles Using Leaf Extracts of <i>Malvastrum coromandelianum</i> (L.) Garcke and <i>Berberis aristata</i> DC	June 2023	Guide	Working

Published Paper in Conferences

1. **Memon A & Chavan S** (2024) Collection & Identification of wild medicinal plants of Dhumkal & Dhumkal forest, Dang District, Gujrat in international Conference on Shaping the future of Research and its Innovative Methodologies in Various Multidisciplinary Streams jointly organized by Managalayatan University Aligarh & Airo Journal held at 10th & 11th August 2024.

B. Published Abstracts:

1. Published abstract “Studies on Purification, Detoxification and Extraction of *Gloriosa superba* tuber. In International conference on Innovations in Biotechnology Research for sustainable bioresources and bioeconomy: Challenges and Practices.held at Sanjivani Arts, Commerce and Science College, Kopergaon, Maharashtra.15th & 16th Feb. 2024.
2. Presented paper Dr. Chavan SP. on Effect of various plant growth regulators on *in vitro* induction of callus from hypocotyl explants of *Carthamus tinctorius* L. in international conference on Biodiversity, Conservation and Role of Molecular

Phylogenetics in Plant Systematics. Held at Department of Botany, ACS College, Mokhada, Palghar. **22nd April 2022.**

3. Snehal Tambe, Jondhale AS, Chavan SP and Kusalkar DV (2020) Heterosis studies for grain yield and yield components in Rabi Sorghum in international conference on Climate change and its effect on Biodiversity, Commerce and Economics, department of Commerce and Life Sciences. **28 & 29th February 2020.**
4. Presented paper Dr. Chavan S. P. and A.S. Jondhale. Documentation of wild food plants from Peth taluka, Dist- Nashik, Maharashtra in State level Conference on Advanced Materials and Innovative Processing Ideas” Department of Botany, Hutatma Rajguru Mahavidyalaya. **27th and 28th December 2019**
5. Chavan SP, Chaudhari AN, Bhoje RR & Chaudhari GP (2017) Allelopathic effect of seaweed on seed germination and seedling growth of Niger. In State level conference on advanced materials and innovative processing ideas, MJM ACS College, Karanjali, **27th & 28th January 2017.**
6. Ajungla L, Chavan SP, Parale AP, Ahire ML and Nikam TD. Production of hyoscyamine and scopolamine in shoot and root culture (liquid culture) of *Datura metel*. L. in National seminar on Frontiers in biotechnological aspects of plant sciences, Chandmal Tarachand Bora College, Shirur (Ghodnadi), Dist Pune 412210. **9th and 10th January 2010.**
7. Nikam T.D., Ajungla L, Chavan S.P. and Ahire M.L. An efficient *in vitro* method for mass propagation of *Dicentra spectabilis*: A medicinal plant from biodiversity hotspot of North-Eastern India.) in National conference on Recent Trends in Botany, K.J. Somaiya college of arts, commerce and science, Kopergaon, **28th, 29th and 30th Jan. 2010.**
8. Chavan S.P., Barmukh R.B. and Nikam T.D. Influence of Auxins, Cytokinins, Abiotic factors and organic supplements on production of vitamin and pigments in callus and cell culture of Safflower (*Carthamus tinctorius* L.) in National conference on Recent Trends in Botany, K.J. Somaiya college of arts, commerce and science, Kopergaon, **28th, 29th and 30th Jan. 2010.**

14. List of Seminars, Conferences and Webinars, Workshop Attended:

1. Participated in one-day online workshop discussion on T.Y. B.Sc. botany practical syllabus and skeleton paper organized by Department of Botany Ahmednagar College, Ahmednagar at **10th May 2022**.
2. Participated in the Teachers Workshop on New Revised Syllabus of T.Y. B.Sc. Botany, SPPU. Pune. Organized by Department of Botany, Prof. Ramkrushna More Arts, Commerce and Science College, Akurdi, Pune at **3rd Sep. 2021**.
3. Attended International conference on Recent Trends in Plant Sciences. Held at department of Botany, Navapur College, Nandurbar at **15th May 2020**.
4. Attended live webinar on “Plant biotechnology in Space” held at Department of Botany, Annamalai University at **12th May 2020**.
5. Attended live webinar on online teaching organized by SPPU Pune and Ahmednagar College, Ahmednagar at **7th May 2020**.
6. Published abstract “Nanotechnology Application in Agriculture” in State Level Conference on Innovative Nano Material’s has Better Future in Emerging Basic Sciences. Held at Department of Chemistry, MJM ACS College, Karanjali, Peth, Nashik, 20th & 21st January 2020.
7. Poster presentation: on Documentation of wild food plants from Peth taluka, Dist- Nashik, Maharashtra in State level Conference on "Innovative prospects in basic and applied plant sciences” Department of Botany, Hutatma Rajguru Mahavidyalaya. 27th and 28th December 2019.
8. Attended State level conference on advanced materials and innovative processing ideas, MJM ACS College, Karanjali, 27th & 28th January 2017.
9. Attended a State level conference on “Modern Techniques in Life Sciences: A Practical Approach” held at Department of Botany, KKHA Arts, SMGL Commerce & SPHJ Science College, Neminagar, Chandwad, Dist- Nashik. 26th -27th February, 2016.
10. Attended 102nd The Indian Science Congress held at University of Mumbai, Mumbai 3rd to 7th January 2015.
11. Oral presentation on: “Elicitation of alphanatocopherol and pigments production by mycelia biomass in *C. tinctorius*. L. in state level conference on “Current Status of Plant Sciences” held at Dept. Of Botany, Radhabai Kale Mahila Mahavidyalaya, Ahmednagar. 19th – 20th March. 2010.
12. Oral presentation on: “*In vitro* Biosynthesis of crocin from *Gardenia jasminoide* Ellis callus culture” in National Seminar on ‘IN THE ROLE OF

CARE-TAKERS OF BIOSPHERE' Department of Botany, Vidya Pratishthan's Arts, Science and Commerce College Baramati, Dist-Pune. 14, 15 & 16th Feb. 2008.

13. Poster presented: S. P. Chavan, Ajungla L, A.P. Parale, T. D. Nikam* "Influence of Phytohormones on production of Hyoscyamine and Hyoscyne during Organogenesis and Callogenesis in *Datura metel* L. in National Symposium on 'Plant Biotechnology for Conservation, Characterization and Crop Improvement' Department of Biotechnology, Mohanlal Sukhadia University, Udaipur 8th- 10th Feb 2008.
14. Poster presented: Ajungla L. Parale A. Chavan S. Nikam T. D. "Influence of growth regulators on *in vitro* organogenesis and production of medicinally important tropane alkaloids in organized and unorganized cell biomass of *Datura metel* L. in Nat. Seminar on 'Current Trends in Plant Bioresource Utilization' Department of Botany, University of Pune 26th and 27th Feb. 2007.
15. Attended National seminar on "Current Trends in Plant Bioresource Utilization' held at Department of Botany, University of Pune 26th and 27th Feb. 2007.

15. List of Training Programs Participated:

1. Completed online workshop on "Bonsai Making" organized by Amravati Garden Club, Amravati. 20th September, 2020.
2. Completed Short Term Course on Basic of Organic farming organized by Department of Botany & IQAC Athyare-Sapre-Pitre College, Devrukh, Dist-Ratnagiri from 31 May-6 June 2020.
3. Participated in three days' training programme on Polyhouse Management" jointly organized by Krishi Vigyan Kendra, Baramati, Dist- Pune. To be held from 24th – 26th Feb. 2014.

Membership-**Life time membership of Society of Agricultures and Nutrition.****16. Other Activity:**

1. Participated and donated blood to Poona Serological Institute Blood Bank in blood donation camp, Dept. Of Botany, University of Pune, Pune. 29th Sept. 2007.
2. Participation in college administrative activities
 - Member of IQAC
 - Member of Anti-ragging Committee of College
 - Member of Admission Committee
 - Member of NAAC Steering Committee
 - Assistant Co-ordinator, Environmental Awareness Course
 - Chairman of Grievances Redressal Committee
 - Chairman of Sexual Harassment Committee
 - Member of Library Committee
 - Member of Parent Association
 - Member of Research Committee
 - Member of