

CURRICULUM VITAE

Vidya Patil-Patankar

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Personal Profile:

Name : Vidya Vivek Patankar
Date of Birth : 14-04-1983
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Educational Details:

Degree	Board/University	Year of Passing	Division	Percentage
S.S.C	State Board	1999	First Class	74%
HSC	State Board	2001	First Class	69%
B.Sc. Botany	North Maharashtra University	2004	Ist Class with Distinction	79.75%
M.Sc. Botany	North Maharashtra University	2006	Ist Class with Distinction	80.45%
Ph.D.	M. S. University of Baroda	2012	--	--
Post Doc.	Savitribai Phule Pune University	2017		

Ph.D. thesis entitled as, “Cambial Variant: Types, Structure and development in some dicotyledons.”

Teaching Experience: 6 Year

1. Worked as temporary lecturer in Botany Department of the M. J. College, Jalgaon in academic year 2006-2007.
2. Worked as temporary lecturer in department of Botany, S.M. Joshi college, Pune in June-October 2014. (Duration: 6/7/2014 to 21/10/2014)
3. Worked as practical demonstrator in the Department of Botany for MSc Part I during academic year 2014 to 2017, conducted practical's on course BO 2.3 for MSc Part I students.
4. Working as assistant professor in department of Botany from 1/07/2017 to till date.

Research Experience: 5 Years

Year	Designation	Funding agency
2006-2007	JRF	UGC, New Delhi.
2008-2011	Project Fellow	UGC, New Delhi.
2014-2015	Post-Doctoral fellowship	D.S. Kothari UGC, New Delhi.
2017	Post Doc. Fellow SERB National	DST, New Delhi. Not joined

Research work:

Pilot study done on: “Do Donaidae butterflies concentrate toxic chemicals from host plants?” as summer visiting student fellow of the Indian Academy of science during May-July 2005. Under Supervision of Prof. KN Ganeshiah, Department of Genetics & Plant breeding, University of Agricultural sciences, GKVK, Bangalore.

Worked as research assistant on the project entitled “Investigation of soil fungi from Khandesh region, Maharashtra” sanctioned under UGC XI plan Research Award, From 2006-2007. Under guidance of Dr. G. M. Rane. Department of Botany, M. J. College, Jalgaon.

Ph.D. work on wood anatomy of different plants is showing abnormal secondary growth, types, structure and development.

As well as worked as project fellow on UGC funded entitled “Pattern of wood formation in some tropical woody climbers” under supervision of Dr. Kishore S. Rajput. Department of Botany, M. S. University of Baroda.

I worked as DS Kothari Post Doc. Fellow, in Department of Botany under the mentorship of Prof. Nutan Malpathak. My research topic is “Comparative study of Morpho-anatomy, preliminary phytochemical analysis and secondary metabolites of some medicinally important plants and its adulterants.” From 2014-2017.

At present working as Assistant professor at Waghire College of Arts Commerce and Science, Saswad in the Department of Botany. Recently working on isolation and characterization of secondary metabolites for their various biological activities specially focusing on anticancer and antidiabetic activities. We are working on *invitro* and *invivo* studies on cell lines and animal models in collaboration with pharmacy College. Also focusing on synthesis of some ligands for their anticancer properties in collaboration with Prof. Satyanarayana Sirsani, Former VC, Osmania University.

Research Awards/ Achievements:

- National Post-Doctoral fellowship awarded by DST SERB (6-07-2017) for two years.
- Reserch Paper entitled with “Development of included phloem of *Calycopteris floribunda* Lamk. (Combretaceae)” is selected for “Dr. C. K. Shah” Best Paper Award in plant sciences for the year 2009-2010.
- Summer Research Fellowship 2005 from Indian Academy of Sciences, Bengaluru.

Technical Skills:

Category	Particulars
Chromatography Techniques	<ul style="list-style-type: none">▪ Ion-exchange chromatography▪ Size exclusion chromatography▪ TLC, HPTLC, HPLC, LCMS, GCMS
Microbiological Techniques	<ul style="list-style-type: none">▪ Isolation, identification and maintenance of microorganisms- Fungi and Bacteria.▪ Microscopic studies using light microscope

Microscopic Techniques	<ul style="list-style-type: none"> ▪ Sectioning (Sledge, Rotary Microtome and Cryostat) ▪ Microscopic Photographic observation and photography ▪ Electron Microscopic techniques ▪ Scanning Electron microscopy ▪ Fluorescence microscopy ▪ Different techniques of sample preparation for microscopy
Instruments (can handle independently)	<ul style="list-style-type: none"> ▪ Different Microtomes ▪ Different types of Microscopes ▪ UV-Vis spectrophotometer ▪ PCR
Molecular techniques	<ul style="list-style-type: none"> ▪ Expression analysis by Real Time PCR ▪ Molecular cloning
Animal tissue culture	<ul style="list-style-type: none"> ▪ Basic ATC techniques ▪ MTT Assay
Bioinformatics	<ul style="list-style-type: none"> ▪ Biological databases mining (pathway analysis) ▪ Sequence Alignment ▪ Intro to Phylogenetics and MSA ▪ Gene Prediction, Primer Designing ▪ Protein Structure, sec. & ter. prediction and protein databases ▪ Structure Visualization and Evaluation

List of Publications in International Journals:

1. Rajput K.S., **Patil V.S.** and Shah D.J. 2008. Formation of successive cambia and stem anatomy of *Sesuvium sesuvioides* (Fenzl.) Verdcourt (Aizoaceae). *Botanical Journal of Linnean Society* 158: 548-555. **[IF: 2.589]**
2. **Patil V.S.** and Rajput K.S. 2008. Structure and development of inter and intraxylary phloem in *Leptadenia reticulata* (Asclepiadeaceae). *Polish Botanical Journal* 53(1): 5-13. **[IF: 0.59]**
3. Rajput K.S. and **Patil V.S.** 2008. Development of cambial variant in *Sesuvium portulacastrum* Linn. (Aizoaceae). *Journal Torrey Botanical Society* 135(4): 483-490. **[IF: 0.518]**
4. **Patil V.S.**, Rajput K.S. and Rao K.S. 2009. Development of intraxylary phloem and internal cambium in *Ipomoea hederifolia* Linn. (Convolvulaceae) *Jour. Of Torrey Botanical Society* 136(4): 423-432. **[IF: 0.518]**

5. Rajput K.S., **Patil V.S.** and Rao K.S. 2009. Development of included phloem of *Calycopteris floribunda* Lamk. (Combretaceae). *Journal of Torrey Botanical Society* 136(3): 302-312. **[IF: 0.518]**
6. Rajput K.S., **Patil V.S.** and Kapadne K.K. 2009. Structure and development of secondary thickening meristem in *Mirabilis jalapa* (Nyctaginaceae). *Polish Botanical Journal* 54(1): 113-121. **[IF: 0.585]**
7. **Patil V.S.**, Rao K.S. and Rajput K.S. 2010. Development of lateral meristem and pattern of secondary growth in the stem and roots of *Spinacia oleracea* Linn. (Chenopodiaceae). *Feddes Reportorium* 121(5-6): 1-10. **[IF: 0.698]**
8. Sanghvi G.V., Koyani R.D., **Patil V.S.** and Rajput K.S. 2011. Morpho-anatomy of *Solanum pseudocapsicum* L. *Revista Brasileira de Farmacognosia Braz. J. Pharmacognosy* 21(1): 11-15. **[IF: 0.956]**
9. **Patil V.S.**, Marcati C.R. and Rajput K.S. 2011. Stem anatomy and development of intraxylary and interxylary secondary phloem in *Coccinia indica* L. (Cucurbitaceae). *IAWA J.* 32(4): 475-491. **[IF: 1.04]**
10. Rajput K.S., **Patil V.S.** and Rao K.S. 2013. Wood anatomy and development of interxylary phloem of *Ipomoea hederifolia* Linn. (Convolvulaceae). *Journal of Plant Growth Regulation* 32: 654-662. **[IF: 2.166]**
11. Rajput K.S. and **Patil V.S.** 2014. Multiple cambia and secondary xylem of *Ipomoea pes-caprae* (L.) R. Br. (Convolvulaceae). *Acta Botanica Gallica: Botany Letters* 161(1): 13-19. **[IF: 0.776]**
12. **Patil V.S.**, Koyani R.D., Sanghavi G. V. and Rajput K.S. 2014. Structure and development of internal phloem in *Solanum pseudocapsicum* (Solanaceae). *IAWA J.* 35(1):1-11. **[IF: 1.04]**
13. Rina D. Koyani, **Vidya S. Patil** and Kishore S. Rajput 2014. Formation of pith flecks and pattern of compartmentalization in Response to fungal infection in *Derris trifoliata* Lour., (Fabaceae). *Indian Forester*, 140 (5): 508-517. **[IF: 0.4]**
14. Kishore S. Rajput, **Vidya S. Patil** and K.S. Rao 2014. Stem anatomy of the dwarf subshrub *Cressa cretica* L. (Convolvulaceae). *Flora* 209: 408-41. **[IF: 1.616]**
15. Kishore S. Rajput, Amreen Saiyed, **Vidya S. Patil** and K.S. Rao 2014. Cambial activity in the young branches and peduncles of *Couroupita guianensis* (Lecythidaceae). *IAWA* 35(3)281 – 292 **[IF: 1.04]**

16. K.S. Rajput, B. D. Chaudhary and **V. S. Patil** 2014. Developmrent of successive cambia and structure of secondary xylem of *Ipomoea obscura* (Convolvulaceae) *Polish Botanical Journal* 59(1): 55-61. **[IF: 0.01]**
17. **V. S. Patil**, K. S. Rajput and N. P. Malpathak 2016. Comparative study on morpho-anatomy of leaf, stem and root of *Boerhaavia diffusa* L. (Nyctaginaceae) and its adulterant plants. *Braz. J. Pharm. Sci.* 52(3): 433-442. **[IF: 0.302]**
18. K. S. Rajput and **V. S. Patil** 2016. Structure and development of cortical bundles in *Couroupita guianensis* Aubl. (Lecythidaceae) *Anales de Biologia* 38: 95-10. **[IF: 0.875]**
19. **V. S. Patil** and N. P. Malpathak 2017. Micro-morphoanatomical approach for comparative analysis of *Tinospora cordifolia* (Willd.) Miers and its adulterant plant using SEM and Cryostat. *Pharmacognosy Journal* 9(1): 39-45. **[IF: 0.202]**
20. **V. S. Patil** and N. P. Malpathak 2018. Development of xylem plates an abnormal conformation in *Tinospora cordifolia* (Willd.) Miers. (Menispermaceae). *Thaiszia - J. Bot., Košice*, 28 (1): 007-017.

Seminars and Paper Presentation:

Sr. No.	Conference/workshop	Name of paper	Organized by	Date
1.	Online International Conference on "Biodiversity Conservation and Tourism"	presented Research Poster on Diversity and Environmental Impact on Wood Anatomy of Some Lianas	Shikshan Vikas Mandal's Shri. S. H. Kelkar College of Arts, Commerce and Science, Devgad, Dist. Sindhudurg, Maharashtra Internal Quality Assurance Cell (IQAC), Department of Environmental Science & Department of Vocational Courses In Association with Joint Director Office, Higher Education, Konkan Region, Panvel	17th May, 2020
2.	International E-Conference on "Strategies & Challenges in Higher Education during	Attended and participated	Organized by Government Vidarbha Institute of Science & Humanities, Amravati,	15th - 17th May, 2020

	COVID-19 Lockdown Period in India with reference to the World”		India on	
3.	International E-conference on Plant Science	Presented a Research Paper in Oral Presentation Session IV	organized by Department of Botany, Swami Vivekanand Senior College Mantha Dist. Jalna (M.S.) India	01st June 2020
4.	Workshop On Writing Literature Review Article: Weekend	Attended and participated	Presented by Mr. Daniel C, Director, Manuscriptpedia, Jointly organized by Cape Institute of Technology, Levengipuram and Manuscriptpedia	16-18 th May, 2020
5.	Online Workshop On Research Writing and Legal Aspects Of Academic Research	Attended and participated	Faculty Development Centre UGC-Human Resource Development Centre, Savitribai Phule Pune University, Pune - 411007	12/06/2020 to 13/06/2020
6.	Online international conference on Climate Change Mangroves and Sustainable Management (CCMSM2020)	Presented poster on Anatomy and Ecology of Mangrove plant Sonneratia apetala	IQAC & PG-Department of Botany Shri Pancham Khemraj Mahavidyalaya, Sawantwadi, MS Jointly with University of Mumbai, Mangrove Society of India & Sahyadri Botanical Society, Kolhapur	24th April 2020
7.	Two Days workshop on “Training on Intellectual property rights (IPR) and Patents”	Attended and Participated in the workshop	PDEA’S B.G. College, Sangvi, Pune	2-3 rd March 2020
8.	UGC-SAP National Seminar, New Vistas in Botany,2020	Comparative micro-morphoanatomy, screening of secondary metabolites and bioprospecting of some wild medicinal plants and their adulterants.	Department of botany, Goa University,	13-14 th Feb. 2020
9.	Teaching and Learning skills in Plant Genetics and Plant Angiosperm Taxonomy	Plant Angiosperm Taxonomy	Department of Botany, Savitribai Phule Pune University	30th Jan 2018

10	87 th annual session of NASI and symposium on “Basic Research-Its role in National development”	Paper presented on “Comparative morpho-anatomy and metabolomics of some important plants and their adulterants.”	NASI and SPPU, Pune	8-10 Dec 2017
11	“Understanding and Exploring the interfaces between Biology and Biotechnology”	Attended Lecture series on Biotechnology	Modern College, Ganeshkhind, Pune	01-03 Nov 2017
12	1-Week Hands-on Workshop on Human/Cancer Cell Culture Techniques & MTT Assay	Human/Cancer Cell Culture Techniques & MTT Assay	ICSCCB, Pune	18-24 June 2017
13	Global Initiative of Academic Networks (GIAN), Genomics and Molecular Biotechnology	Course on Genomics and Molecular Biotechnology (obtained Excellent grade)	MHRD and SPPU, Pune	7 th -18 th Nov 2016
14	Industrial Summer Training on Bioinformatics and Molecular Biology	One Month hands-on training on Molecular Techniques and Bioinformatics	RASA Life Sciences informatics, Pune	17 th June 2016
15	3rd International Plant Physiology Congress (IPPC-2015)	Abiotic stress and wood anatomy of some lianas	Indian Society of Plant Physiology (ISPP) Jawaharlal Nehru University (JNU) & National Institute of Plant Genome Research (NIPGR)	December 2015
16	AMBI 2015- 6th National Conference on Advances in Microbial Biotechnology and Interdisciplinary Approaches	Oral “Comparitive study of morphoanatomy of Leaf, stem and root of <i>Boerhaavia diffusa</i> L. (Nyctaginaceae) and their adulterant plants.”	M J College, Jalgaon	January 2015

17	National Symposium on Botanical Researches- Present Scenario, Patiala	Poster: "cambial variant and xylem development in some members of family Aizoaceae"	Patiala University, Patiala, Punjab	February 2010
18	National Conference on Frontiers In Biological Sciences, Vallabh Vidyanagar.	Oral: " <i>Structure and development of cambial variants in Ipomoea hederifolia</i> Linn. (Convolvulaceae)"	Bioscience Department, Vallabh Vidyanagar	February 2009
19	National Seminar on Emerging Areas in Plant Sciences.	Poster: "Cambial variant and xylem derivatives in <i>Sesuvium portulacastrum</i> L. (Aizoaceae)"	M. S. University of Baroda	February 2009
20	Electron Microscopy Workshop	Attended and participated	Biosciences department and SICART, Vallabh Vidyanagar.	January 2009
21	All India Botanical Conference and International Symposium on Plant Biology and Environment Changing Scenario.	Oral: "Stem anatomy of Amaranthaceae"	Department of Botany, University of Allahabad	December 2008
22	National symposium on plant pathogens: Exploitation and management and annual meeting of Indian Phytopathological Society	Poster: " <i>Diversity and seasonal variation of the species of Aspergillus isolated from soils of Nandurbar district, Maharashtra</i> ".	Rani Durgavati Vishwavidyalaya, Jabalpur	January 2007
23	Digital Governance and Hot Spot Geoinformatics for Monitoring, Etiology, Early warning and Sustainable Management.	Oral: " <i>Study of fungal Biodiversity from the Bhaunak watershed</i> " in International workshop"	Jal-SRI, Water Surveillance and Research Institute. M.J. College, Jalgaon	December 2006

Faculty Development Training Programs:

1. Participated and successfully completed 170th general orientation program organized by UGC-MHRDC center of SPPU, Pune on 15/09/2019 to 5/19/2019 and obtained "A" grade.
2. Participated and successfully completed the ARPIT Online Refresher Course on for Career Advancement Scheme (CAS) promotion, "Refresher Course on Teacher and Teaching in Higher Education from 1/09/2019 to 31/12/2019.
3. Participated and successfully completed Two Weeks Faculty Development Program on "MANAGING ONLINE CLASSES and CO-CREATING MOOCS:2.0" from May 18 - June 03, 2020.
4. Participated and successfully completed Four Weeks Faculty Development Program on "Plant Developmental Biology" from 26/08/2019 to 17/11/2019.
5. Actively participated and successfully completed one-week national level short term course on "VIRTUAL LEARNING ENVIRONMENT" through online mode from 18.05.2020 to 24.05.2020