Curriculum Vitae

Varsha Shriram, Ph.D.

Assistant Professor,
Department of Botany,
Prof. Ramkrishna More College,
Akurdi, Pune – 411044.

Flat No. C-3, Amar Enclave,
Opp. AIPT, Near Croma Mall,
Pune-Solapur Road,
Pune – 411 013 (INDIA)

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Academic Qualifications:

Degree	University	Year	Subject
Ph. D.	University of Pune	2006	Botany
M. Sc.	University of Pune	2000	Botany (Plant Physiology)
B. Sc.	University of Pune	1997	Botany, Zoology & Chemistry

Ph. D. Thesis: ***Tissue Culture and Phytochemical Studies in Some Medicinal Plants***

Guide: **Dr. M. G. Shitole**, Former Professor and Head, Department of Botany, University of Pune, Pune

Co-Guide: **Dr. S. R. Rojatkar**, Formerly Scientist E-I, Organic Chemistry Technology Division, National Chemical Laboratory, Pune

Current Position and Past Experience:

- Working as an **Assistant Professor** at Department of Botany, Prof. Ramkrishna More College, Akurdi, Pune, since 26th July 2010.
- Worked as an **Assistant Professor** at Department of Botany, A. M. College, Hadapsar, Pune, from September 2006 to July 2010.
- Worked as a **Project Assistant** on DBT (Govt. of India) funded project entitled ***"Programme for micropropagation research and technology development"*** at Tissue Culture Pilot Plant, Biochemical Sciences Division, National Chemical Laboratory, Pune, from January 2005 to September 2006.
- Worked as a **Project Assistant** on DST (Govt. of India) - funded project in collaboration with `FMR-Godrej entitled "***The documentation, study, propagation and utilization of local medicinal plants with antidiarrhoeal activity in the Parinche valley (Maharashtra)"*** Organic Chemistry Technology Division, National Chemical Laboratory, Pune, from 2002 to 2004.
- Worked as a **Research Trainee** for learning ***Molecular Biology Techniques*** under the guidance of Prof. P. B. Kavi Kishor, Professor, Department of Genetics and Biotechnology, Osmania University, Hyderabad, during April 2003.
- Worked as a **Research Trainee** for learning ***Plant Tissue Culture Techniques*** at Tissue Culture Pilot Plant, Biochemical Sciences Division, National Chemical Laboratory, Pune, from March to April 2001.
- Worked on a **Research Project** for partial fulfilment of M. Sc. entitled ***"Effect of moisture stress on oxidative injury and antioxidant activity during early vegetative growth in maize (cv. KH-510)"*** under the guidance of Dr. R. K. Sairam at **Indian Agricultural Research Institute (IARI)**, New Delhi.

Specialization

Phytochemistry, Medicinal plants, Bio-activity studies, Plant Biotechnology, Plant Physiology, Plant Tissue Culture,

Area of Interest:

Secondary Metabolites Production, Phytochemistry, Active Principal Isolation, Activity Testing. Plant Biotechnology, Plant Molecular Biology

Research Projects: As PRINCIPAL INVESTIGATOR

Title of the Project	Funding Agency	Amount sanctioned (Rs.)	Duration	Status
"Plant tissue culture and anticancer activity studies in medicinally important threatened orchid *Eulophia nuda* L."	BCUD, Pune University	2,00,000/-	2008-2010	Completed
"Phytochemical investigations for bioactive molecules of *Eulophia nuda* L, it's in vitro propagation and enhancement of anticancer molecules in callus and suspension cultures by elicitors".	UGC, New Delhi.	9,51,000/-	2011-2014	Completed
Phyto-therapeutic mediated multiple/extensive drug resistance reversal in clinical pathogens	BCUD, Pune University	2,40,000/-	2015-2017	Ongoing
Optimal acetoxychavicol-acetate (ACA) production in *Alpinia galanga* hairy roots via gamma radiation and scale-up	BRNS, BARC, Trombay, Mumbai	18,10,000/-	2016-2019	Ongoing

Research Projects: As CO-INVESTIGATOR

Title of the Project	Funding Agency	Amount sanctioned (Rs.)	Duration	Status
Production & optimisation of extra cellular lipase enzyme from various fungal species isolated from soyabean seeds.	UGC, New Delhi.	1,45,000/-	2010-12	Completed

Research Guidance:

- **Recognized Ph.D. Guide in Botany for University of Pune, Pune**
- **Guiding four PhD students**
- **Guided 2 MSc (Botany), 13 MSc (Microbiology) and 2 MSc (Biotechnology) students for their research projects**

Patents:

1) **PCT Patent**

Latha C., **Varsha Shriram**, S. R. Rojatkar, S. S. Jahagirdar, P. K. Dhakephalkar (2007). A method of curing antibiotic resistant plasmids, Publication number: **WO2007/088408A1**

Publications:

No. of papers published: **25**

Cumulative Impact Factor	**:**	**~40**	[©JCR, Thomson Scientific, 2017]
Total Citations	**:**	**672**	[Courtesy: Google Scholar]
h-index	**:**	**14**	
i10-index	**:**	**16**	

1] **Shriram V**, Jahagirdar S, Latha C, Kumar V, Puranik V, Rojatkar S, Dhakephalkar P, Shitole MG. 2008.
A potential plasmid curing agent 8-epidiosbulbin E acetate from *Dioscorea bulbifera* L. against multiple-drug resistant bacteria.
***International Journal of Antimicrobial Agents*, 32: 405-410.**
DOI: 10.1016/j.ijantimicag.2008.05.013 (Elsevier)
Impact Factor: 4.45 **Total Citations: 27**

2] ***Shriram V**, Kumar V, Suryawanshi SB, Upadhyay AK, Bhat MK. 2010.
Cytotoxic activity of 9,10-dihydro-2,5-dimethoxyphenanthrene-1,7-diol from *Eulophia nuda* against human cancer cells.
***Journal of Ethnopharmacology* 128: 251-253**.
DOI:10.1016/j.jep.2009.12.031 (Elsevier)
Impact Factor: 3.32 **Total Citations: 13**

3] **Shriram V**, Jahagirdar S, Latha C, Kumar V, Dhakephalkar P, Rojatkar S, Shitole MG. 2010.
Antibacterial and antiplasmid activities of *Helicteres isora* L.
***Indian Journal of Medical Research*, 132: 94-99 (**ICMR, New Delhi**)**
Impact Factor: 2.01 **Total Citations: 09**

4] Latha, C., **Shriram V**, Jahagirdar S, Dhakephalkar PK, Rojatkar SR. 2009. Antiplasmid activity of 1' acetoxychavicol acetate from *Alpinia galanga* against multi-drug resistant bacteria.
***Journal of Ethnopharmacology*, 123(3): 522-525**
DOI:10.1016/j.jep.2009.03.028. (Elsevier)
Impact Factor – 3.32 **Total Citations: 18**

5] Latha C., **Shriram V,** Rojatkar SR. 2006.
Chemical Investigation of *Alpinia galanga* of South India.
***Journal of Aromatic & Medicinal Plants*, 30: 192-194**. (CSIR-CIMAP, Lucknow)

6] **Shriram V**, Kumar V**,** Shitole MG. 2008.
Indirect organogenesis and plant regeneration in *Helicteres isora* L., an important medicinal plant.
***In Vitro Cellular & Developmental Biology- Plant*, 44: 186-193.**

DOI: 10.1007/s11627-008-9108-3 (Springer)
Impact Factor: 1.5 **Total Citations: 14**

7] Kumar V, **Shriram V**, Kavi Kishor PB, Jawali N, Shitole MG. 2010.
Enhanced proline accumulation and salt stress tolerance of transgenic indica rice by over expressing P5CSF129A gene.
***Plant Biotechnology Reports* 4(1): 37-48.**
DOI: 10.1007/S11816-009-0118-3 (Springer)
Impact Factor: 1.2 **Total Citations: 42**

8] Kumar V, **Shriram V**, Nikam TD, Kavi Kishor PB, Jawali N, Shitole MG. 2008.
Assessment of tissue culture and antibiotic selection parameters useful for transformation of indica rice.
***Asian & Australasian Journal of Plant Science & Biotechnology*, 2(2): 84-87.**
(Global Science Books, Japan) **Total Citations: 01**

9] **Shriram V**, Kumar V**,** Shitole MG. 2007.
In vitro propagation through nodal explants in *Helicteres isora* L., a medicinally important plant.
***Journal of Plant Biotechnology* 34(3): 189-195.**
DOI: 10.5010/JPB.2007.34.3.189 (Korean Society for Plant Biotechnology)
Impact Factor: 0.3 **Total Citations: 01**

10] Kumar V, **Shriram V**, Nikam TD, Jawali N, Shitole MG. 2009.
Antioxidant enzyme activities and protein profiling under salt stress in indica rice genotypes differing in salt tolerance.
***Archives of Agronomy & Soil Sciences,* 55(4): 379-394.**
DOI: 10.1080/03650340802595543 (Taylor and Francis)
Impact Factor: 1.4 **Total Citations: 14**

11] Kumar V, **Shriram V**, Nikam TD, Jawali N, Shitole MG. 2008.
Sodium chloride induced changes in mineral elements in indica rice cultivars differing in salt tolerance.
***Journal of Plant Nutrition,* 31(11): 1999-2017**.
DOI: 10.1080/01904160802403466 (Taylor and Francis)
Impact Factor: 0.64 **Total Citations: 20**

12] Kumar V, **Shriram V**, Jawali N, Shitole MG. 2007.
Differential response of indica rice genotypes to NaCl stress in relation to physiological and biochemical parameters.
***Archives of Agronomy & Soil Sciences*, 53(5): 581-592.**
DOI: 10.1080/03650340701576800 (Taylor and Francis)
Impact Factor: 1.4 **Total Citations: 08**

13] Kumar V, **Shriram V**, Mulla J. (2013).
Antibiotic resistance reversal of multiple drug resistant bacteria using *Piper longum* fruit extract.
***Journal of Applied Pharmaceutical Science,* 03 (03): 112-116**.
DOI: 10.7324/JAPS.2013.30322.

14] Danai-Tambhale S, Kumar V, ***Shriram V**. 2011.

Differential Response of Two Scented Indica Rice (*Oryza sativa*) Cultivars under Salt Stress. ***Journal of Stress Physiology & Biochemistry*** **7(4): 387-397. (Russian Society for Plant Physiology).** **Total Citations: 07**

15] Kumar V, Lemos M, Sharma M, **Shriram V**. 2013.
Antioxidant and DNA Damage Protecting Activities of *Eulophia nuda* Lindl.
Free Radicals & Antioxidants (Elsevier)**, 3 (2): 55-60**
DOI: 10.1016/j.fra.2013.07.001

16] ***Shriram V**, Kumar V, Mulla J, Latha C. 2013.
Curing of Plasmid-Mediated Antibiotic Resistance in Multi-Drug Resistant Human Pathogens Using *Alpinia galanga* Rhizome Extract.
Advanced Bio Tech13 (1): 1-5

17] Kumar V, Sharma M, Lemos M, **Shriram V**. 2013.
Efficacy of *Helicteres isora* against free radicals, lipid peroxidation, protein oxidation and DNA damage.
Journal of Pharmacy Research (Elsevier), 6 (6): 620-625
DOI: 10.1016/j.jopr.2013.05.017

18] **Shriram V**, Nanekar V, Kumar V, Kavi Kishor PB. 2014.
In vitro regeneration and ploidy level analysis of *Eulophia ochreata* Lindl.
Indian Journal of Experimental Biology. 52, 1112-1121. ISSN: 0975-1009 (Online); 0019-5189 (Print)

19] Nanekar V, **Shriram V**, Kumar V, Kavi Kishor PB. 2014.
Asymbiotic in vitro seed germination and seedling development of *Eulophia nuda* Lindl., an endangered medicinal orchid
Proceedings of the National Academy of Sciences, Biological Sciences (NASB) 84 (3), 837-846 ISSN: 0369-8211 (print version) ISSN: 2250-1746 (electronic version)
DOI 10.1007/s40011-014-0353-4

20] Kumar V, Desai D, **Shriram V.** 2014.
Hairy root induction in *Helicteres isora* L. and Production of diosgenin in Hairy roots.
Natural Products and Bioprospecting (Springer), 4(2): 107-112
DOI 10.1007/s13659-014-0011-9

21] Mapara N, Sharma M, **Shriram V**, Bharadwaj R, Mohite KC, Kumar V. 2015.
Antimicrobial potentials of *Helicteres isora* silver nanoparticles against extensively drug resistant (XDR) clinical isolates of *Pseudomonas aeruginosa*.
Applied Microbiology and Biotechnology
DOI: 10.1007/s00253-015-6938-x.
Impact Factor: 3.4

22] Wani SH, Kumar V, **Shriram V**, Sah SK 2015. Phytohormones and their metabolic engineering for abiotic stress tolerance in crop plants.
The Crop Journal (Review article), 4(3):162-176 (Elsevier) ISSN: 2214-5141
doi:10.1016/j.cj.2016.01.010

23] **Shriram V,** Kumar V, Devarumath RM, Khare T, Wani SH. 2016. MicroRNAs as potent targets for abiotic stress tolerance in plants.
Frontiers in Plant Science **7:817**. doi: 10.3389/fpls.2016.00817 (Frontiers Media, Switzerland) **Impact Factor: 4.3**

24] Shaikh S, **Shriram V**, Khare T, Kumar V. 2018. Establishment of Callus and Cell Suspension Cultures of *Helicteres isora* L.
***Research in Plant Biology*, 8:1-7**. doi: 10.25081/ripb.2018.v8.3366

25] Kumar V, Khare T, **Shriram V**, Wani SH. 2017. Plant small RNAs: the essential epigenetic regulators of gene expression for salinity stress responses and tolerance.
***Plant Cell Reports* 37:61-75.** doi**:** 10.1007/s00299-017-2210-4. (Springer) **Impact Factor: 2.87**

Book chapters

1. Khare T, **Shriram V,** Kumar V. 2018. RNAi Technology: Role in development of abiotic stress tolerant crops. In: Wani SH (Ed.) *Biochemical, Physiological and Molecular Avenues for Combating Abiotic Stress Tolerance in Plants.* Elsevier, doi: 10.1016/B978-0-12-813066-7.00008-5

2. Kumar V, Khare T, Srivastav A, Surekha C, **Shriram V**, Wani SH. 2018. Oxidative stress and leaf senescence: Important Insights. In: Maryam Sarwat (Ed.), *Senescence Signalling and Control in Plants.* Elsevier (In press).

3. Kumar V, Khare T, Arya S, **Shriram V,** Wani SH. 2017. Effects of toxic gases, ozone, carbon dioxide, and wastes on plant secondary metabolism. In: Mansour Ghorbanour and Ajit Varma (Eds) *Environmental Challenges and Medicinal Plants*, Springer-Verlag, Germany, doi: 10.1007/978-3-319-68717-9_5

4. Kumar V, **Shriram V**, Hoque TS, Hasan MM, Burritt DJ, Hossain MA. 2017. Glycinebetaine mediated abiotic oxidative-stress tolerance in plants: physiological and biochemical mechanisms. In: Sarwat M et al. (Eds.). *Stress Signaling in Plants: Genomics and Proteomics Perspective, Volume 2* p111-133, Springer International Publishing, Switzerland, doi: 10.1007/978-3-319-42183-4_5

5. Kumar V, Wani SH, Sah SK, Khare T, **Shriram V.** 2016. Engineering Phytohormones for Abiotic Stress Tolerance in Crop Plants. In: Ahammed GJ, Yu J (Eds.) *Plant hormones under challenging environmental factors.* Springer Science + Business Media, Dordrecht. doi: 10.1007/978-94-017 7758-2_10

6. Kumar V, **Shriram V,** Hussain MA, Kavi Kishor PB. 2015. Engineering proline metabolism for enhanced plant salt stress tolerance. In: Wani SH, Hussain MA (Eds.) *Managing salinity tolerance in plants: molecular and genomic perspectives*. CRC Press, Taylor & Francis Group, pp353-372; ISBN: 978-1-4822-4513-4

Posters presented in International Seminars/ Conference: 05

1. **Shriram V,** Jahagirdar S, Dhakephalkar PK, Rojatkar SR, Shitole MG. 2006. **Isolation of bioactive compound from *Dioscorea bulbifera* L. and its antiplasmid activity.** Presented at "***International Symposium on frontiers in genetics and biotechnology-retrospect and prospect***" held at the Department of Genetics and Biotechnology, Osmania University, Hyderabad, 8-10 January 2006.
2. Kadam A, Kumar V, **Shriram V.** 2011**. Hairy root induction in *Helicteres isora* L. For the production of Diosgenin- a steroidal drug** presented at "***International conference on Current Trends in Medicinal Plants Research"*** held at the Department of Botany, University of Pune, Pune, 10-12 Jan 2012.

3. **Shriram V,** Nanekar V, Kumar V 2013. *In vitro* plant regeneration via PLB derived callus in medicinal orchid *Eulophia ochreata* Lindl. presented at "***International conference on Advances in Biotechnology and Bioinformatics*** organised by Dr. D. Y. Patil Vidyapeeth Pune and The Biotech Research Society, India
4. Kumar V, Dnyanada Desai, **Shriram V, 2**013. Exploration of *Helicteres isora* L. as a source of diosgenin and its enhancement using biotechnological tools presented at "***International conference on Advances in Biotechnology and Bioinformatics*** organised by Dr. D. Y. Patil Vidyapeeth Pune and The Biotech Research Society, India.
5. Shrama M, Shriram V, Kumar V, 2016. Characterization of Clinical isolates of *P. aeruginosa* and *E. coli* as MDR/XDR and PDR based on their resistance pattern. Presented at '***Innovative Trends in Chemical Physical and Biosciences*** **(ITCPB 2016)**' organized by Annasaheb Magar Mahavidyalaya, Pune, 9th to 10th Feb 2016

***Papers presented as Lead Lectures in National Seminars / Symposia: 02**

1 **Shriram V,** Latha C, Rojatkar SR, Shitole MG*. Tissue culture and phytochemical studies in some medicinal plants. Presented at "***National Seminar on Plant Physiology***" held at Department of Botany, University of Pune, 27-29 December 2004.
**Lead lecture was delivered by Prof. M. G. Shitole*

2 **Shriram V,** Shitole MG*. Medicinal Plant Biotechnology. Presented at ***National Seminar on 'Plant Physiological & Molecular Approaches for the Improvement of Agricultural, Horticultural & Forestry Crops',*** Kerala Agricultural University, Thrissur, Kerala, November 2006. **Lead lecture was delivered by Prof. M. G. Shitole*

Papers presented in National / Regional Seminars: 12

1. **Shriram V** 2016. Potentiation of Antibiotics using Plant Extracts of *Cassia fistula* against clinical isolates of *Escherchia coli*, presented at Innovation -2015 Regional Research Conference organised by Baburaoji Gholap College, Sangvi, Pune on 7th Oct. 2016.
2. **Shriram V** 2015. Phyto-therapeutics mediated multiple/extensive drug resistance reversal in clinical pathogens presented at Innovation -2015 Regional Research Conference organised by SMBST College, Sangamner on 4th and 5th July 2015.
3. Nanekar V, **Shriram V**, Kumar V. In vitro responses of *Eulophia ochreata* a medicinally important orchid to PGRs Poster presented in Current Prospects and Challenges in Life Sciences held at New Arts, Commerce and Science College, Ahmednagar, 26-27 July 2013.
4. Desai D, Kumar V, **Shriram V**. Eco-geographical variations in diosgenin content isolated from *Helicteres isora* L. Poster presented in Current Prospects and Challenges in Life Sciences held at New Arts, Commerce and Science College, Ahmednagar, 26-27 July 2013.
5. **Shriram V**, Kumar V, Nanekar V. Micropropagation of *Eulophia nuda* L. a medicinally important endangered orchid Poster presented in **National Seminar** of Plant Physiology on 'Physiological and Molecular Approaches for Development of Climate Resilient Crops' held at Acharya N. G. Ranga Agricultural University, Hyderabad, 12-14 December 2012.
6. **Shriram V**, Kumar V, Mulla J, Kadam A. Evaluation of *Helicteres isora* L. from different localities of Western Ghats for diosgenin content and its enhancement using hairy root cultures Poster presented in **National Seminar** of Plant Physiology on 'Physiological and Molecular Approaches for Development of Climate Resilient Crops' held at Acharya N. G. Ranga Agricultural University, Hyderabad, 12-14 December 2012.

7. Mulla J, Kumar V, **Shriram V.** Genetic Transformation in *Helicteres isora* L. to enhance diosgenin content. Paper presented in State Level Seminar on 'Recent Trends in Life Sciences' held at PDEA's Arts, Commerce and Science College, Pirangut, 11-12 February 2011.
8. Kumar V, **Shriram V,** Shitole MG. NaCl-induced mineral deficiency and nutrient imbalances in *indica* rice genotype 'Kalarata'. Presented at National Conference on 'Recent Trends in Life Sciences', held at A. M. College, Hadapsar, Pune – 411 028, 18-19 December 2009.
9. **Shriram V.** Plant tissue culture and anticancer activity studies in medicinally important threatened orchid *Eulophia nuda* L. 'Innovation- 2009-10 Regional Conferences for Pune University College Teachers' held at Vidya Pratishthans Arts Science & Commerce College, Baramati, 20 December 2009
10. Kumar V, **Shriram V**, Jawali N, Nikam TD, Shitole MG. Embryogenic callus induction and plant regeneration of indica rice. Presented at National Seminar on In the Role of Care-Takers of Biosphere, held at Vidya Pratisthan, Baramati, 14-16 February 2008. ***Won the Second Prize.***
11. **Shriram V.** Phytochemical Investigation of *Eulophia nuda* and its Cytotoxic Activity against Human Cancer Cell line. Poster presented at 'Innovation- 2009-10 Regional Conferences for Pune University College Teachers' held at Vidya Pratishthans Arts Science & Commerce College, Baramati, 12-13 November 2008
12. Kumar V, **Shriram V,** Shitole MG. Optimisation of Callus cultures in rice (*Oryza sativa* L. cv. Karjat-3). Presented at National Seminar on Utilization of Plant Resources. Held at Department of Botany, University of Pune; February 2007.

Invited as an Expert/ resource Person:

1. **Meeting** for '**Plant Tissue Culture Lab Development**' during 7th-8th March 2017 organised by S. M. Joshi College, Hadapsar, Pune 28
2. **Worksho**p on '**Skill development programme in plant tissue culture**' organised by Baburaoji Gholap College, Sangvi, Pune during 7th -8th March 2017
3. International Conference on '**Functional Eco-friendly Smart Emerging Materials (FESEM) 1016'**. Organized by Baburaoji Gholap College, Sangvi, Pune during 10-12th March 2016- worked as an expert in poster evaluation.

Knowledge, skills and ability:

Natural products isolation, spectroscopic techniques including NMR, IR, X-RAY, MASS, antibacterial and plasmid curing activity testing, enzymology, protein separation by SDS-PAGE, basic molecular biological techniques such as isolation of genomic and plasmid DNA, gel electrophoresis, bacterial genetic transformation and immobilizations of cells.

Conference/ Seminars / Workshop organized:

Member, Organizing Committee, National Conference on '***Advances in Chemical Biological and Environmental Science'*** at Prof. Ramkrishna More College, Akurdi, Pune from 27th Oct 2013

Member, Organizing Committee, National Seminar on **'*Recent Advances in Chemical and Environmental Science'*** at Prof. Ramkrishna More College, Akurdi, Pune from (RACES – 2012) 10 – 12 Feb. 2012

Member, Organizing committee, National Conference on '***Recent Trends in Life Sciences***' at Annasaheb Magar College, Hadapsar, Pune from 18-19 December 2009

Workshop / Seminars attended:

- State level workshop on ***'Techniques in Molecular Phylogenetic Analysis'*** at Department of Botany, S.P. Pune University, Pune during 5th to 8th 2016.
- One day workshop on 'T. Y .B. Sc. Practical Workshop – New Syllabus (June 2015 onwards) held at Department of Botany, Abasaheb Garware College, Pune on 5th December 2015.
- One-day workshop on 'Revised Syllabus of F.Y.B.Sc. Botany Practical' at Abasaheb Garware College, 6th July 2013.
- One-day workshop on 'Framing of F.Y.B.Sc. Syllabus' at Anantrao Pawar College, Pirangut, Pune, 16th Jan 2013.
- One-day seminar on **'Intellectual Property Rights- An Update'** organised by Seth Govind Raghunath Sabale College of Pharmacy, Saswad, Tal. Purandar, Dist. Pune, 11th February 2012.
- National Seminar on '**Recent Advances in Chemical & Environmental Sciences'** held in Prof. Ramkrishna More College, Akurdi, Pune 411044, 10-12th Feb 2012.
- One day seminar on the theme '**Science & Society'** organised by Environmental Science Department, University of Pune & Indian Women Scientist Association, Pune Branch, 8th march 2012.
- One-day Reorientation Workshop on '**Teaching Revised Syllabi in Botany**' organised by Department of Botany, University of Pune, 21st March 2009.
- One-day Workshop on **'Conservation & Assessment of Phytodiversity & Discussion on Revised B.Sc. (Botany) Syllabus'** organised by Arts, Commerce & Science College, Pirangut, Pune, 23rd January 2010.
- One-day Workshop on **'Revised syllabus of F. Y. B. Sc. Botany Practicals'** organised by Modern College of Arts, Science & Commerce, Ganeshkhind & University of Pune, Pune, 19th July 2008.
- One-day Workshop on **'Revised syllabus for F. Y. B. Sc. Botany Theory'** organised by H. V. Desai College & University of Pune, Pune, 26th July 2008.
- One-day Seminar on '**Revised syllabus of S. Y. B. Sc. Botany Practicals'** organised by Abasaheb Garware College, Pune, 11th July 2009.

Refresher and Orientation courses

Name of the course	**Duration From - To**	**Place**
Orientation course	10th Apr to 7th May 2009 (28 days)	Academic Staff College, S. P. Pune University
Refresher course	7th-27th March 2012 (21 days)	Dept. Env. Science, S. P. Pune University
DBT sponsored short term training course Topic: *Techniques for Bioprocess and Downstream Process Engineering and Tools for Systems Metabolic Engineering*	1st to 19th Dec. 2014 (20 days)	Shri Venkateshwara College of Engineering, Chennai, Tamilnadu - 602117

Students registered for Ph.D./M.Phil. degree:

Sr. No	Name of the student	Topic of research	Date of registration	Status/ Remark
1	Randhaye Dhananjay Manik	In vitro production & elicitation of acetoxychavicol acetate from *Alpinia galanga* L. willd & its bioactivity study against drug resistance microbes.	28/03/2018	Guide Subject: Botany
2	Mr. Vikas Nanekar	*In vitro* propagation, anti-oxidant activities and elicitation of secondary metabolites of *Eulophia nuda* Lindl.	11/07/2015	Guide Subject: Botany
3	Ms. Mansi Sharma	Identifying potent multi/extensive – drug – resistance reversal agents from Embelia tsjeriam-cottam via targeting the underlying resistance mechanisms.	17/07/2015	Co-guide Subject: Biotechnology
4	Mrs. Samrin Shaikh	Optimization of *in vitro* production of diosgenin, a steroidal sapogenin, employing plant cell and hairy root cultures of *Helicteres isora* L	25/07/2014	Co-guide Subject: Biotechnology

Personal Details:

Date of Birth: 10th May 1976
Gender: Female
Languages known: Hindi, English, Marathi and Telugu
Nationality: Indian

Declaration:

I hereby declare that all the information given above is correct and true as per my knowledge.

Date:
Place: Pune

Varsha Shriram

References:

1) Dr. P. B. Kavikishor,
Professor,
Department of Genetics and Biotechnology,
Osmania University,
Hyderabad- 7
E-mal: pbkavi@yahoo.com

2) Dr. S. R. Rojatkar,
Formerly Scientist E-I,
Natural Products Unit, OCT Division,
National Chemical Laboratory,
Pune- 411 008
Email: rojatkar@dalton.ncl.res.in

3) Dr. G. S. Chinchanikar,
Former Professor,
Department of Botany,
University of Pune,
Pune- 411 007
Email: gsc@unipune.ac.in