Teacher's Profile

Prof. Jyoti P. Jadhav
MNASc, FMASc

Professor and Head
Department of Biochemistry,
Department of Biotechnology,
Shivaji University,Vidyanagar,
Kolhapur- 416 004
Maharashtra, India
Email:jpjbiochem@gmail.com

1. PERSONAL DETAILS:

Name	:	Prof. Dr. (Mrs.) Jyoti P. Jadhav
Date of Birth	:	December 24, 1968
Sex	:	Female
Marital Status	:	Married
Languages known	:	English, Marathi, Hindi
Postal Address	:	Department of Biotechnology, Shivaji University, Vidyanagar, Kolhapur 416004.
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Website	:	www.drjyotijadhav.webs.com
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2. EDUCATIONAL QUALIFICATION:

Certificate Degree	Subjects	*Name of Institution*	Year	Class
Ph. D	Biochemistry	Shivaji University Kolhapur Maharashtra, India	2000	Thesis
GATE	Life Sciences	IIT Mumbai	1993	99.38 Percentile
SET	Biochemistry	Pune University	1996	--------
M. Sc.	Biochemistry	Shivaji University, Kolhapur, Maharashtra, India	1990	Distinction
B. Sc	Chemistry	New collage Kolhapur, Maharashtra, India	1988	Distinction

TITLE OF Ph. D. THESIS:

"β-glucanases from *Penicillium ochrochloron*: their use in study of α-β glucan complex in *Saccharomyces carlsbergenesis*"

3. SCHOLARSHIPS AND ACHIEVEMENTS

- **Member of Academic Council Dattajirao Kadam Technical (DKT) Education Society's Textile and Engineering Institute, Ichalakaranji (2019)**
- **Co-ordinator of RGSTC, Shivaji University, Kolhapur (2018)**
- **Member of Academic Council, Shivaji University, Kolhapur (2018)**
- **Member of Academic Council Annasaheb Dange College of Engineering and Technology, Ashta (2018)**
- **Best Teacher Award 2016 Shivaji University Kolhapur (2016)**
- **Member of National Assessment and Accreditation Council (NAAC) Peer Team (2014)**
- **Member of National Academy of Sciences (2013)**
- **Women Scientist Award Biotechnology Research Society of India. (2011)**
- **Fellow of Maharashtra Academy of Sciences (2011)**
- **Member of Maharashtra State Council for Higher Education**
- **Executive Council member of Maharashtra academy of Sciences Kolhapur**
- **Recipient of "GATE – Junior and Senior Research Fellowship"** for doctoral studies at Shivaji University, Kolhapur. **(1993)**
- **Stood first in merit at M. Sc. Biochemistry, at Shivaji University, Kolhapur**
- **National Merit scholarship awarded during M.Sc. (1988)**
- **College Merit Scholarship awarded during B.Sc. (1985)**

Membership

1. Member of Biotechnology Task Force of Govt. of Maharashatra.
2. IBSC committee member Vasantdada Sugar Institute, Pune.
3. Member of Biotechnology Research Society of India, Trivendrum, India (BRSI).
4. Member, Board of Studies, Secondary and Higher-Secondary Education Board, Pune.
5. Member of Vision 2025 Document Committee at SUK, Kolhapur
6. Member of Standing Committee at SUK, Kolhapur
7. Member of Technical committee, SUK, Kolhapur
8. Member of Research Policy Committee, SUK, Kolhapur
9. Member of Purchase Committee, SUK, Kolhapur
10. Chairman of Research and Extension Activity Committee, SUK, Kolhapur
11. Member of Animal Ethics Committee Stem Cell Research, Kolhapur
12. Advisory committee member, Board of studies, Secondary and Higher-Secondary Education Board, Pune
13. Biotechnology Expert for reconstruction of Biology syllabi for $12^{th,}$ Pune
14. Member Ethical committee, Clinical research center, Aster Adhar Hospital, Kolhapur.
15. BOS Chairman of Ad hoc Board Biotechnology at SUK, Kolhapur.
16. BOS Chairman of Ad hoc Board Biochemistry at SUK, Kolhapur.
17. BOS Chairman of Ad hoc Board Biotechnology Engineering at SUK, Kolhapur.
18. BOS Member of Ad hoc Board Biotechnology at SUK, Kolhapur.
19. BOS Member of Ad hoc Board School of Nanoscience and Technology at SUK, Kolhapur
20. BOS Member of Ad hoc Board Biochemistry at SUK, Kolhapur.
21. BOS Member of Ad hoc Board Biotechnology at BAMU, Aurangabad.
22. BOS member of Yashwantrao Chavan Institute of Science, Satara
23. Member of RR committee Biotechnology at SUK, Kolhapur
24. Member of RR committee Biochemistry at SUK, Kolhapur
25. Member of RR committee Microbiology at SUK, Kolhapur
26. Member of RR committee Savitribai Phule University, Pune
27. Member of DRC committee Biotechnology at SUK, Kolhapur
28. Member of DRC committee Biochemistry at SUK, Kolhapur
29. Member of DRC committee Microbiology at SUK, Kolhapur
30. Member of Scrutiny Committee UGC proposal at SUK, Kolhapur.
31. Member of Preface Writing Sub Committee NAAC accreditation at SUK, Kolhapur.
32. Member of Criterion III Sub Committee NAAC accreditation at SUK, Kolhapur.
33. General Body member of Private Education Society Khasbagh, Kolhapur

Recently Invited for:

- Lead college activity "**Microbial analysis of Jaggery**" at Rajaram College, Kolhapur, on 23rd February 2019.
- Recent Developments in Bioprocess Technology and Opportunities **(RDBTO),** Organized by Department of Biotechnology Engineering, KIT College of Engineering, Kolhapur. 4^{th} June 2015, on **'LCMS MS/MS basics and applications'**.
- **'Evolutions 2015'** – The Evolving Solutions in Protein Interaction Analysis GE Healthcare Life Sciences, 26^{th} May 2015, on '**Surface Plasmon Resonance for**

characterization of enzyme inhibitors' held at JW Marriot, Pune.

- International Conference on "Bioprocessing India 2014" held at ICT Mumbai during Dec 17^{th}-20^{th}on **"Fungal Chitinase and their Biotechnological Applications".**
- 11^{th} BRSI Convention & International Conference on Emerging Trends in Biotechnology" held at JNU, Delhi during Nov 6^{th}-9^{th}, 2014 on **"Fungal Chitinases".**
- International Conference and Exhibition on Biochemical & Molecular Engineering – 2013 during October 7-9, 2013, at Texas, USA. On "**Harnessing the potential of L-DOPA from biological sources: Dawn a new era**".

4. RESEARCH AREA OF INTERESTS

1. Phytoremediation
2. Bioremediation
3. Studies on Alzheimer and Parkinson's disease
4. Gene Cloning
5. Studies on Surface Plasmon Resonance

5. TEACHING EXPERIENCE:

- Assistant Professor in Biochemistry at Shivaji University Kolhapur from 1990-2006
- Associate Professor in Biochemistry at Shivaji University, Kolhapur from 2006- 2012
- Professor in Biochemistry at Shivaji University, Kolhapur from 2012 till date
- Head Department of Biotechnology at Shivaji University, Kolhapur from 2007 till date

Research Mentorship

Sr. no	Name	Research Topic	Year	Current Position
Ph. D (Awarded) [19]				
1	Dr. Kalyani D. C	Biotechnological approach for textile dye degradation	2009	Post-doctoral fellow at Denmark
2	Dr. Dhanve R. S.	Bioremediation: A new approach for textile dye degradation.	2009	Assistant Professor, Solapur
3	Dr. Patil P. S.	Microbial Inocula for biotransformation of textile dyes.	2009	DST Fast Track Fellow, SUK
4	Dr. Kurhe D. N.	Thermodynamic studies of Energetics for amino acids and insulin in aqueous and perturbed aqueous solutions	2010	Assistant Professor, School of nanoscience and technology, SUK
5	Dr. Shedbalkar U.U.	*Penicillum oschrocoloum*: for biodegradation of textile	2011	Assistant Professor, The Institute of Science, Mumbai
6	Dr. Phugare S. S.	Microbial systems for the bioremediation of toxicants	2011	Assistant manager QC Dept. Serum institute, Pune
7	Dr. Surwase S. N.	A novel approach for the biotransformation of L-tyrosine to melanin by microbial systems.	2011	Director in education institute Solapur
8	Dr. Jadhav S. B.	Ecofriendly Approach for the Removal of Environmental Toxicants	2011	Assistant Professor, The Institute of Science, Mumbai
9	Dr. Adki V. S.	Phytoremediation approach for removal of environmental pollutants	2013	Assistant Professor, Solapur
10	Dr. Gurav R. G.	Keratin degradation using bacterial keratinase and its biotechnological applications	2013	Asst. Professor at Konkuk University, Seoul, South Korea
11	Dr. Inamdar S. A	Biotechnological strategies for the study of L-DOPA from fungal and	2013	Post-doctoral fellow at NCCS,

		plant sources		Pune
12	Dr. Patil A. V.	Evaluation of phytoremediation potential of *Sesuvium portulacastrum* and *Tagetes patula* for the degradation of textile dyes	2013	Technical officer, FSSAI, Mumbai
13	Dr. Patil S. A.	Biotechnological approach for the production of L-DOPA and melanin	2014	Post-doctoral Fellow, SUK
14	Dr. Patil N. S.	Fungal chitinases and their biotechnological applications	2015	Post-doctoral Fellow, Vidyasagar Institute, Bangalore.
15	Dr. Watharkar A.D.	Use of common garden plants for degradation of textile dyes	2015	Young Women Scientist fellow (UGC), Amity University, Mumbai
16	Dr. Apine O. A.	Use of underutilized tropical fruits *Anacardium occidentale* and *Carissa* spp. For wine production with special emphasis on metabolomics	2015	Research Associate at Institute of Chemical Technology, Mumbai
17	Dr. Kolekar P. D.	Pesticide hazards: Strategies for remediation by microbes	2017	Research Associate, Lupin pharma
18	Dr. Patil R. R.	Study on *Mucuna sanjappae*, a new *Mucuna* species for its anti-Parkinson activity	2017	Assistant Professor Amity University, Mumbai.
19	Dr. Surwase S. V.	Biochemical study of multifunctional laccase and their application	2017	Research associate at Venky's laboratory, Pune
20	Dr. Gurme S. T.	Exploring yeast as a potential source for the production of Anti-Parkinson's drug L-DOPA	2019	Assistant Professor, Yashavantrao Chavan Institute of Science, Satara.

21	Dr. Mulla T. R.	Tyrosinase: characterization and inhibition studies	2019	Assistant Professor, School of Nanoscience, Shivaji University.
22	Dr. Kamble P. P.	Use of Microbial Inulinase for the fructose formation from inulin containing plants	2019	Assistant Professor, Rajaram College, Kolhapur.
Ph D (Thesis Submitted) [4]				
1	Mrs. Bharati Rajput	Phytochemical investigation and molecular phylogeny of *Drimia* species.	2019	DBT-IPLS -SRF
Research students working [7]				
	Name	**Research Topic**		**Fellowship/Associate**
1	Ms. Rane M.R.	Study of Biochemical and medicinal properties of *Mucuna* species: Special emphasis on edible variety.		DBT-IPLS -SRF
2	Mr. Aware C. B.	Studies on phytochemical composition and medicinal properties of *Mucuna macrocarpa*: Special emphasis on anti-parkinson's activity		CSIR-SRF
3	Mr. Vyavahare G. D.	Sorption of environmental toxicants using agro-industrial waste derived biochar		Chief Minister Special Research Fellowship Gov. Of Maharashtra
4	Mr. Suresh Suryawanshi	Studies on Biochemical and medicinal properties on *Mucuna imbricate:* Special emphasis on Parkinson's disease treatment		ICMR-SRF
5	Ms. Devashree Patil	Studies on *Pancratium* spp: special emphasis on Alzheimer's disease.		DST-INSPIRE
6	Mr. Rahul Jadhav	Effective treatment of textile industrial wastewater using plant-microbes consortia		Sarthi National Research Fellowship Gov. of Maharashtra, NET-

			LS
7	Mrs. Pratibha Mali	Combinatorial and coalitional effect of potent medicinal plants for their neuroprotective potential with respect to Parkinson's disease	CSIR-JRF
	POSTDOCTORAL FELLOWS [4]		
1	Dr. Rajput S. B	Identification of potential combinations of ergosterol inhibitors for antifungal therapy: an *in vitro* and *in vivo* study using *Candida albicans*	DSK -Postdoctoral Fellowship
2	Dr. Viresh Ramchandra Thamke	Studies on Mucuna ap. Seed extract for the management of Parkinson's disease with special emphasis on its molecular pathway	DSK -Postdoctoral Fellowship
3	Dr. Savita Raju Tapase	Designing of combinatorial textile industrial waste treatment technology for the sustainable constructed wetland development	DSK -Postdoctoral Fellowship
4	Dr. Sachin Vijay Otari	Formulation of hydrogel containing curcumin nanoparticles and natural tyrosinase inhibitor in effective treatment of acnes and hyperpigmentation	DSK -Postdoctoral Fellowship

Also guided for more than 200 M.Sc. Student Projects

10.□ FIELD OF EXPERTISE

Significance of Prof. Jyoti Jadhav's Research

Professor Jadhav is Head, Department of Biotechnology, Shivaji University, Kolhapur and during last twelve years and has nurtured this nascent department into a centre of academic and research excellence and has received more than 12 crores funding and published 120 papers, 2 patents and guided 20 Ph.D. students. She has made several noteworthy contributions on bioremediation of textile industrial effluents using microbial, plant and transgenic hairy roots and this approach has been employed to treat effluents from industrial wastes. This work has been highly appreciated by DBT and sanctioned a

project under 'Swach Bharat Mission' programme. Professor Jadhav was PI of inter disciplinary project for life sciences of DBT (IPLS) which was successfully completed.

Simultaneously, Professor Jadhav has actively worked on Parkinson's disease and mainly explored the plant Mucuna for the isolation of L Dopa, a drug widely used in the treatment of Parkinson's disease. Extensive experimental work has been done by her on the characterization of the drug including animal test models. This work has been published in high impact journals. For this work, she has established a highly sophisticated bio chemical and animal tissue culture laboratory.

She has been awarded with Women scientist award constituted by BRSI. She is a Member of NASI and Fellow of MASc. Recently, she has been awarded with "Best Teacher Award" by Shivaji University, Kolhapur. Professor Jadhav has participated in many national and international conferences and is a member of many advisory committees, prominently in the NAAC scrutiny committee.

Contribution to Social Research

The Maharashtra state is one of the pioneer states in manufacturing and marketing of jaggery in India. The success of jaggery manufacturing and marketing is dependent on standardization, production, quality and strategy adopted for marketing jaggery and its by-products. The Kolhapur district in Maharashtra is the sugarcane belt and a pocket of jaggery powder manufacturing. Jaggery powder is widely used in numerous food products in India as well as in other counties. The production of jaggery powder is helpful for employment generation at local, national and at international levels. Considering the increasing price of jaggery powder, related research work is very much essential and my research project of jaggery powder is currently in collaboration with Indian institute of Chemical Technology (ICT) Mumbai. This research project has vast social, economical and technical importance and mainly focused on hygienic production of the Jaggery powder which will contribute to boost jaggery market in India.

7. Editorial Board member

Saudi Journal of Biological Sciences
Publisher: Elsevier, IF: 3.13, ISSN: 1319-562X

8. REVIEWER OF THE INTERNATIONAL JOURNALS
Reviewed research papers (National and International Journals):

Journals

1. Bioresource technology
2. Hazardous Material
3. Biotechnology and Bioprocess Engineering
4. Applied Biochemistry and Biotechnology
5. Environmental Technology
6. Biodegradation
7. Bioremediation
8. Process Biochemistry
9. Clean- Soil, Air Water
10. Applied Microbiology
11. International Biodeterioration Biodegradation
12. Journal of Microbiology
13. Ecotoxicology and Environmental Safety etc.
14. Environmental Science and Pollution Research
15. African Journal of Biotechnology
16. Current Microbiology
17. World Journal of Microbiology and Biotechnology.
18. Journal of Basic Microbiology
19. International Journal of Phytoremediation
20. Indian Journal of Biotechnology
21. Indian Journal of Experimental Biology
22. Bio-Resources
23. Water research
24. Applied Microbiology and Biotechnology
25. International Journal of Environmental Science and Technology
26. Journal of Biochemical Engineering
27. Communication Catalysis
28. Water Air and Soil Pollution
29. Nano Scale Research Journal
30. Clean Technologies and Environmental Policy
31. Journal of Molecular Catalysis B. Enzymatic
32. International journal of Recycling of organic waste in agriculture
33. Journal of Microbial and Biochemical Technology
34. Frontiers of environmental science and engineering
35. Ecotoxicology and environmental safety
36. RSC Advances
37. PLOS ONE.
38. Chemosphere
39. Journal of Cleaner Production
40. International Journal of Biological Macromolecules

8. TECHNICAL AND ANALYTICAL SKILLS:

- **Biochemistry/Biotechnology:** Various protein purification techniques like Ion exchange, Gel filtration, Affinity Chromatography. Electrophoresis, Isoelectric focusing, Preparative TLC and HPLC, HPTLC, and Mass Spectrophotometry. Large scale production of anti-Parkinson's drug L-DOPA and Biopolymer Melanin from various biological sources using fermenters. Plant tissue culture techniques, callus cultures, micropropagation, organogenesis, cell suspension cultures, elicitation of cell suspension cultures. LCMS Q TOF, SPR, Hairy root cultures, transformation, secondary metabolite analysis.DNA Sequencing, PCR, RT-PCR, Gene cloning, RAPD, RFLP, DNA Barcoding etc.

- **Software skills:** MS office, Data analysis using Graph Pad, Chem draw, RSM, CCD, MEGA, Internet Explorer, MS Access, Adobe Photoshop, Outlook Express

9. FUNDED PROJECTS

Research Projects in Progress/ Completed

Infrastructure Development Grants for the Department:

Title of Project/Scheme	Funding agency	Year	Funds received	Worked as
DBT-Shivaji University Kolhapur-Interdisciplinary Programme on Life Science for Advanced Research and Education	DBT New Delhi	7.01 Crore	2011	Coordinator
Biotechnology Departments Sophisticated Instrumentation Facilities	Govt. of Maharashtra	3.0 Crore	2012	Coordinator

Research Schemes/Projects: (Completed/Ongoing)

Title of Project/Scheme	Funding Agency	Funds received	Date of Start

Biodegradation of triphenylmethane dyes *Penicillium ochrochloron* (SERB-Fast Track Young Scientist Scheme)	DST-New Delhi	Rs. 11 lakh	2005
Biodegradation of textile dyes (Scarlet RR, Rubine GFL, Brown 3REL, Methyl Red, Brilliant Blue, Golden Yellow HER and Remazol Red) using *Galactomyces geotrichum* MTCC 1360 and consortia with *Brevibacillus laterosporus*.	DBT, New Delhi	Rs. 51.66 Lakh	2008
Conversion of Traditional Jaggery Rounds into Free Flowing Stable Jaggery Granules	RGSTC	108.72 Lakh	2014
Construction of wetland-A phytoremediation treatment process for the degradation of dyes from textile effluent	DBT	10.65 Lakh	2014
Integrated eco-electrogenic system for efficient and sustainable treatment of textile wastewater"	DBT	134.87 Lakh	2017

Memorandum of Understanding (MoU)

MoU between Shivaji University, Kolhapur and B.V. Patel PERD Centre, B. V. Patel Pharmaceutical Education and Research Development (PERD) Centre.

Purpose: The primary purpose of this MoU is to build academic research capacity and to promote mutual understanding between the Universities/Research establishments.

Aim: To develop drugs for the treatment of Parkinson's and Alzheimer's disease

1. WORKSHOPS AND SEMINARS ATTENDEDAND ORGANIZED

1. **Jyoti P. Jadhav**, Tyrosinase: a key enzyme for skin tone, National conference on "Healthcare management" held on 30-31th January, 2019 organized by Pune University, Pune.

2. **Jyoti P. Jadhav**, In situ phytoremediation of dyes from textile waste water using garden ornamental plants in a constructed wetland held on 22-25th November, 2018, International conference on biotechonological research and innovation for sustainable development (BioSD) organized by CSIR-IICT , Hyderabad.

3. **Jyoti P. Jadhav**, Neurodegenerative Diseases, International conference on "Innovative Research in Science and Technology" held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.

4. Govind D. Vyavahare, Ranjit G. Gurav, Pooja P. Jadhav, Ravishankar R. Patil, Chetan B. Aware, **Jyoti P. Jadhav**, Sorption of toxic malachite green dye using sugarcane bagasse biochar:Response surface methodology, phyto and cytogenotoxicitystudies, International conference on "Innovative Research in Science and Technology" held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.

5. Swati T. Gurme, Kiran D. Pawar, Vishwas A.Bapat, **Jyoti P. Jadhav**, Establishment of somatic embryogenesis and assessment of genetic fidelity in Amorphophalluspaeoniifolius, International conference on "Innovative Research in Science and Technology" held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.

6. R. G. Gurav**,** S. P. Ghasari, **J. P. Jadhav**, Bacillus pumilus RST25 chitinase: An effective biological tool for controlling fungal pathogens on commercial crops, International conference on "Innovative Research in Science and Technology" held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.

7. C. B. Aware, R. R. Patil, M. R. Rane, G. D. Vyavahare1, **J. P. Jadhav**, RP-HPLC analysis of L-DOPA, proximate composition, in vitro protein and starch digestibility with biological activities in processed seeds of Mucuna macrocarpa, International conference on "Innovative Research in Science and Technology" held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.

8. Vishal V. Chandanshive[a], Suhas K. Kadam[a], Rahul V.Khandare, , **Jyoti P Jadhav**, Sanjay P. Govindwar**,** In situ phytoremediation of textile effluent affected soils using potent garden ornamentals plants: improving efficacy of high rate transpiration system, International conference on "Innovative Research in Science and Technology" held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.

9. T. R. Mulla, S. S. Patil, **J. P. Jadhav**, Purification, Characterization and Kinetics studies of Yam tyrosinase, International conference on "Innovative Research in Science and Technology" held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.

10. Bharati P Rajput, **Jyoti P Jadhav**, Phytochemical evaluation of Drimia coromandeliana in comparison to Drimia indica, International conference on "Innovative Research in Science and Technology" held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.

11. S.S. Suryawanshi**,** P. Kshirsagar, V.A. Bapat , **J.P. Jadhav**, Phytochemical analysis of Mucuna imbricata and optimization of media for callus biomass induction for yield of L-DOPA (drug against anti Parkinson's disease), International conference on "Innovative Research in Science and Technology" held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.

12. Prajakta. P. Kamble, **Jyoti. P. Jadhav**, Yasmin.C.Attar, Comparison Of Optimization Conditions For Elevated Bacterial And Fungal Inulinase, International conference on "Innovative Research in Science and Technology" held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.

13. M.R.Rane, S.R.Yadav, V.A. Bapat , **J.P. Jadhav**, Evaluation of Anti-Parkinson's Drug L-DOPA, Phenolics, Flavonoid and Antioxidant Potential of Under Utilized Macuna Species, International conference on "Innovative Research in Science and Technology" held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.

14. **Jyoti P. Jadhav**, surface Plasmon resonance for characterization of enzyme inhibitor, International conference on "Current trends in biotechnology" held on 8-10 December, 2016 organized by School of Bio science and Technology, VIT University, Vellore.

15. C.B. Aware, S.S. Suryawanshi, G.D. Vyavahare, S.R. Yadav , V.A. Bapat , **J.P. Jadhav**, Evaluation of anti-Parkinson's drug L-DOPA, proximate composition and antioxidant potential of underutilized *Mucuna* species: *Mucuna macrocarpa*, International conference on "Current trends in biotechnology" held on 8-10 December, 2016 organized by School of Bio science and Technology, VIT University, Vellore.
16. M. R. Rane, R.R. Patil S.T. Gurme, **Jyoti P. Jadhav**, RAPD and ISSR markers assisted genetic diversity of *Mucuna* genotype found in India, International conference on "Current trends in biotechnology" held on 8-10 December, 2016 organized by School of Bio science and Technology, VIT University, Vellore.
17. **Jyoti Jadhav**, Melanin synthesis and its characterization from bacterial spp., National conference on Recent Advances in Intergrated and Pest Management' held on 1-2 March, 2016 organised by Department of Agrochemicals and Pest Management, Shivaji University, Kolhapur (National Conference).
18. **Jyoti Jadhav**, L-DOPA content and antioxidant capacity of medicinal Plant-*Mucuna Sanjappae*:An Antiparkinson's Drug, held on held on 2nd and 3rd Sepetmber, 2015 organised by center for Interdisciplinary Research, D. Y. Patil University, Kolhapur (National Conference).
19. R.R. Patil, C.B. Aware, S.S. Suryawanshi, Surya Pratap Singh, **Jyoti Jadhav**, *Mucuna sanjappae*: a new species of *Mucuna* showing promising Anti-Parkinson's activity on MPTP induced mice model, National conference on "Convergence of stem cells and medical nanotechnology" held on 2nd and 3rd Sepetmber, 2015 organised by center for Interdisciplinary Research, D. Y. Patil University, Kolhapur (National Conference).
20. Prajakta Kamble, Swati Surwase, Tabassum Mulla, **Jyoti Jadhav**, Yasmin Attar, Optimization of culture conditions using Response Surface Methodolgy for Inulinase production by fungal strain, National conference on "Convergence of stem cells and medical nanotechnology" held on 2nd and 3rd Sepetmber, 2015

organised by center for Interdisciplinary Research , D. Y. Patil University, Kolhapur (National Conference).

21. Swati Gurme, Manali Rane, Sushama Patil, **Jyoti Jadhav**, Statistical optimization and production of L-DOPA by *Yarrowia lipolytica* NCIM 3450, National conference on "Convergence of stem cells and medical nanotechnology" held on 2nd and 3rd Sepetmber, 2015 organised by center for Interdisciplinary Research , D. Y. Patil University, Kolhapur. (National Conference).
22. **J.P. Jadhav**, International Conference on "Bioprocessing India 2014" held at ICT Mumbai during Dec 17th-20th on "Fungal Chitinase and their Biotechnological Applications" (International Conference).
23. Swati V. Surwase, Sushama A. Patil, Swati T. Gurme, **Jyoti P. Jadhav** " Surface Plasmon Resonance study of fungal laccase" at Bioprocessing India 2014, Institute of Chemical technology (ICT), Mumbai (International Conference).
24. R. R. Patil, M.R .Rane, C.B. Aware, **J. P. Jadhav** "*Mucuna sanjappae*: A new natural source of an anti-Parkinson's drug L-DOPA" at Bioprocessing India 2014, Institute of Chemical technology (ICT), Mumbai (International Conference).
25. **Jyoti P. Jadhav,** Attended workshop on gel based proteomics, proteomics Society of India, IIT Mumbai, December, 10-11, 2014 (International Conference).
26. **Jyoti P. Jadhav** and Sushama A. Patil " Screening of Mushroom tyrosinase inhibitors using Surface Plasmon Resonance" Proteomics Society of India, PSI, IIT Mumbai, December 7-9, 2014 (International Conference).
27. "11thBRSI Convention & International Conference on Emerging Trends in Biotechnology" held at JNU, Delhi during Nov6th-9th, 2014 On **"**Fungal Chitinase and their Biotechnological Applications" (International Conference).
28. Sushama A. Patil, Swati V. Surwase, **Jadhav J. P.** "Extracellular bacterial melanin mediated synthesis of antibacterial and antifungal silver nanoparticles and its cytotoxicity analysis" International conference on Emerging trends in Biotechnology, ICETB, JNU, Delhi, November 6-9, 2014 (International Conference).
29. Nilambari S. Patil, Manali R. Rane, **Jyoti P. Jadhav "**. Molecular characterization of an intergeneric hybrid between *Aspergillus oryzae* and *Trichoderma harzianum* by protoplast fusion" International conference on Emerging trends in Biotechnology, ICETB, JNU, Delhi, November 6-9, 2014 (International Conference).
30. Asmita V. Patil, Ravishankar R. Patil, Swati T. Gurme, **Jyoti P. Jadhav** "Purification and characterization of tyrosinase from adventitious root cultures of *Tagetes spatula*"International conference on Emerging trends in Biotechnology, ICETB, JNU, Delhi, November 6-9, 2014 (International Conference).
31. Anuprita D. Watharkar, Rahul V. Khandare, Pankajkumar Waghmare, S. P. Govindwar, **Jyoti P. Jadhav** "Immobilized bacterial assisted phytoremediation of textile effluent in a hydroponic reactor and subsequent toxicity studies on *Etheostoma olmstedi* fish" International conference on Emerging trends in Biotechnology, ICETB, JNU, Delhi, November 6-9, 2014 (International Conference).
32. Nilambari S. Patil, **Jadhav J.P**. Solid state fermentation of chitinase for enzymatic production of N-acetyl-D-glucosamine by *Penicillium ochrochloron* MTCC 517 using agricultural residues, Recent trends in food technology and management, CNCVCW, CSIBER, Kolhapur .March 28-29,2014 (National Conference).

33. Sushama A.Patil, **Jadhav J.P.** Evaluation of crocin and curcumin affinity on mushroom tyrosinase using surface plasma resonance, Recent trends in food technology and management, CNCVCW, CSIBER, Kolhapur .March 28-29,2014 (National Conference).
34. **Jadhav J.P.** Resource person for special winter school programme, Department of chemistry, Shivaji University, Kolhapur, 11th November- 1st December, 2013
35. Patil P.S., Patil V.S., **Jadhav J.P**. Decolorization, degradation and kinetic study of textile dye Navy Blue HE2R using bacterial consortium, International conference on Biosciences with special reference to environmental issues and 33 rd annual session of the academy of environmental biology, December 19-21, 2013 (International Conference).
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61. **Jadhav, J. P**. (2012) National Workshop on Plants of Medicinal Potential from Western Ghats and Pharmaceutics. Department of Botany. Shivaji University, Kolhapur. March, 22- 2012 (National Conference).
62. **Jadhav, J. P.** (2012) Indian STEPs and Business Incubators Association (ISBA). Pune, March 17-19, 2012 (International Conference).
63. **Jadhav, J. P.** (2012) National Workshop on Recent Advances in Agrochemicals. Shivaji University, Kolhapur. Feb. 28, 2012 (National Conference).
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Patent: 02

1. Applicants/ Inventers: S. N. Surwase, **J. P. Jadhav**; A process for increased melanin productionApplication no. 2941/MUM/2011; Patent granted (2017)
2. Applicants/ Inventers: S.A. Inamdar, V.A. Bapat, **J. P. Jadhav**; A method for extraction of L-DOPA from *Anethum Graveolens* leaves. Application no.

Nucleotide sequence deposited

1. *Pantoea agglomerans* strain PVM 16S ribosomal RNA gene, partial sequence
   P.V. More · **J.P. Jadhav** (File available · Nucleotide Sequence · Feb 2010)
2. *Chryseobacterium sp*. RBT 16S ribosomal RNA gene, partial sequence
   R.G. Gurav · **J.P. Jadhav** (File available · Nucleotide Sequence · Jan 2010)
3. *Pseudomonas sp*. BCH3 16S ribosomal RNA gene, partial sequence
   S.S. Phugare · **J.P. Jadhav (**File available · Nucleotide Sequence · Dec 2009)
4. *Sphingobacterium multivorum* gene for 16S rRNA, partial sequence, strain: ATM
   D.P. Tamboli · A.N. Kagalkar · M.U. Jadhav · [...] · **J.P. Jadhav (**File available · Nucleotide Sequence · Jun 2009)
5. *Pseudomonas sp*. SU-EBT 16S ribosomal RNA gene, partial sequence
   A.A. Telke · D.C. Kalyani · R.S. Dhanve · [...] · **J.P. Jadhav** (File available · Nucleotide Sequence · Dec 2008)
6. *Pseudomonas aeruginosa* strain BCH 16S ribosomal RNA gene, partial sequence
   S.S. Phugare · R.S. Dhanve · **J.P. Jadhav (**File available · Nucleotide Sequence · Nov 2008)
7. *Bacillus odysseyi* strain SUK3 16S ribosomal RNA gene, partial sequence
   P.S. Patil · **J.P. Jadhav (**File available · Nucleotide Sequence · May 2008)
8. *Morganella morganii* strain SUK5 16S ribosomal RNA gene, partial sequence
   P.S. Patil · **J.P. Jadhav (**File available · Nucleotide Sequence · May 2008)
9. *Exiguobacterium* sp. RD3 16S ribosomal RNA gene, partial sequence
   R.S. Dhanve · U.U. Shedbalkar · G.S. Ghodake · **J.P. Jadhav (**File available · Nucleotide Sequence · April 2007

11. RESEARCH PUBLICATIONS (PUBLISHED) 142
Total Citations: 4806, *h* index: 35, i10 index: 79

Scopus citations: Total publications:126, citations: 3060, h index:29, i10 index: 73

Researchgate.net: Total publications: 141, total impact points: 194.82, Average impact/paper: 1.97 RG Score: 38.19

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103. D. N. Kurhe, D. H. Dagade, **J. P. Jadhav**, S. P. Govindwar, K. J. Patil. (2011) Thermodynamic studies of amino acid-denaturant interactions in aqueous solutions at 298.15 K. Journal of Solution Chemistry. 40, 1596-1617 (IF: 1.12**) SCI Expanded.**
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Book Chapters:

1. **J. P. Jadhav** and S. S. Phugare (2011). Non-Convectional Textile Waste Water Treatment. Chapter-I Textile Dyes - General Information and Environmental Aspects Published by Nova publishers USA (In press)

2. V.A. Bapat, G.B. Sunil Kumar, **J.P. Jadhav**, S.P. Govindwar, and T.R Ganapathi (2009) Role of nanoparticles in plant molecular farming. In: Plant Genetic Transformation and Molecular Markers, Eds. Ashwini Kumar, Pointer's Publishers, Jaipur, India, 33-46.(ISBN 13: 978-81-7132-613-6)

Professional Experience

2014 February 11 – 13, Convener,'DNA barcoding technique for species identification and improvement'. organized by Department of Biotechnology, Shivaji University, Kolhapur, India

2013 September 16-17, Member, Organising Committee, 2nd International Conference on 'Clinical Microbiology and Microbial Genomics'to be held at Las Vegas, USA.

2013 September 6–8, Convener, 'Use of DNA Barcoding Techniques for Species Identification'. organized by Department of Biotechnology, Shivaji University, Kolhapur, India.

2013 February 8-9, Joint Secretary 'Challenges and Opportunities in Life Sciences' ,organized by Department of Biochemistry, Microbiology and Biotechnology, Shivaji University, Kolhapur, India.

2012 December, 20-21, **Member, Organising Committee.** International Conference on 'Sustainable water resource, development and management', organized by Department of Environment science, Shivaji University, Kolhapur, India.

2012, November, 26-27,Member, Organising Committee. A Workshop on 'Brain-storming session for application of technology for sustainable development in the state of Maharashtra' organized by Department of Biochemistry, Shivaji University, Kolhapur India.

2012 January 19-20, Member, Organising Committee, 'International Webinar on Recent Trends in Life Sciences' organized by Department of Microbiology Shivaji University, Kolhapur India.

2011 March 04 - 05, Convener, National Conference on 'Recent Trends in Life Sciences' organized by Department of Biochemistry, Shivaji University Kolhapur, India.

2010 November 10-12, **Member, Organising Committee** XXXIII Conferance of Indian Botanical Scociety and International Symposium on 'The New Horizons of Botany' organized byDepartment of Botany, Shivaji University, Kolhapur, India.

Contribution for academic development of the Department

1. Successful conduction Horizontal Mobility course from June 2005.
2. Preparation of syllabus for
   M. Sc. Horizontal Mobility
   B. Sc. Biotechnology (One of the subject, Vocational & Entire)
   M. Sc. Food Science and Technology
   M. Sc. NanoScience and Technology
   M.Tech Biotechnology Engineering
3. Preparation of Project proposal for DST-FIST (Biochemistry) and SAP-DRS-1 (Biochemistry).

Significant Contributions:

1. Vice-Chancellor's Nominee: For the Assistant Professor selection committie of Shivaji University Kolhapur.
2. Worked as a ladies nominee in different commities of at school and college level in the Juridiction of Shivaji University, Kolhapur.
3. Worked as subject expert for Biochemisrty, Biotechnology, Food-Science and Technology, Microbiology.
4. Worked for the development of Biotechnology subject in colleges under the jurisdiction of Shivaji University, Kolhapur.
5. Delivered lectures for State level training programme for Biology teachers of Junior college regarding the Biotechnology syllabus.
6. Attended and participated in the Inter-University workshop on "Applied course in Biochemistry/Biotechnology" organised by the department of Chemistry, Shivaji University, Kolhapur.
7. Participated in Workshop on "Basic techniques in Animal cell culture" jointly organised by Department of Biochemistry, Shivaji University, Kolhapur. & N.C.C.S., Pune.
8. Attended workshop on Biotechniques jointly organized by Bangalore Genei and Department of Biochemistry, Shivaji University, Kolhapur.

Prof. Jyoti P. Jadhav