

Teacher's Profile

Prof. Jyoti P. Jadhav

MNAsC, FMASc

Professor and Head
Department of Biochemistry ,
Department of Biotechnology,
Shivaji University, Vidyanagar,
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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 Biochemistry/Biotechnology,
Shivaji University, Vidyanagar,
Kolhapur 416004.
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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 carlsbergensis*”

3. SCHOLARSHIPS AND ACHIEVEMENTS

- **World Ranking of Top 2% Scientists in Biotechnology and Environmental Science.**
- 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)
- Member of AAA committee (2017)
- Best Teacher Award 2016 Shivaji University Kolhapur (2016)
- Member of National Assessment and Accreditation Council (NAAC) (2014)
- Member of National Academy of Sciences (2013)
- Executive Council member of Maharashtra academy of Sciences Kolhapur (2013)
- Member of Maharashtra State Council for Higher Education (2012)
- Women Scientist Award Biotechnology Research Society of India. (2011)
- Fellow of Maharashtra Academy of Sciences (2011)
- 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 (1990)
- 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 Maharashtra.
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 12th, 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 School of Nanoscience and Technology at SUK.
19. BOS Member of Ad hoc Board Biotechnology at BAMU, Aurangabad.
20. BOS Member of Ad hoc Board Biotechnology at Solapur University, Solapur.
21. BOS member of Yashwantrao Chavan Institute of Science, Satara
22. Member of RR committee Biotechnology at SUK, Kolhapur
23. Member of RR committee Biochemistry at SUK, Kolhapur
24. Member of RR committee Microbiology at SUK, Kolhapur
25. Member of RR committee Savitribai Phule University, Pune
26. Member of DRC committee Biotechnology at SUK, Kolhapur
27. Member of DRC committee Biochemistry at SUK, Kolhapur
28. Member of DRC committee Microbiology at SUK, Kolhapur
29. Member of DRC committee Food Science and Technology at SUK, Kolhapur
30. Member of DRC committee Chemical Technology at SUK, Kolhapur.
31. Member of DRC committee Biotechnology Engineering at SUK, Kolhapur.
32. Member of Scrutiny Committee UGC proposal at SUK, Kolhapur.
33. Member of Preface Writing Sub Committee NAAC accreditation at SUK, Kolhapur.
34. Member of Criterion III Sub Committee NAAC accreditation at SUK, Kolhapur.
35. General Body member of Private Education Society Khasbagh, Kolhapur etc.

Recently Invited for:

- 9th Annual International Conference of Indian Academy of Biomedical Science (IABSCON-2020) at D. Y. Patil Medical College, Kolhapur on 27th to 29th February 2020.
- Tyrosinase: a key enzyme for skin tone, National conference on “Healthcare management” held on 30-31th January, 2019 organized by Pune University, Pune.
- Lead college activity “**Microbial analysis of Jaggery**” at Rajaram College, Kolhapur, on 23rd February 2019
- 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 biotechnological research and innovation for sustainable development (BioSD) organized by CSIR-IICT , Hyderabad.
- Recent Developments in Bioprocess Technology and Opportunities (**RDBTO**), Organized by Department of Biotechnology Engineering, KIT College of Engineering, Kolhapur. 4th June 2015, on ‘**LCMS MS/MS basics and applications**’.
- ‘**Evolutions 2015**’ – The Evolving Solutions in Protein Interaction Analysis GE

Healthcare Life Sciences, 26th 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 17th-20th on “**Fungal Chitinase and their Biotechnological Applications**”.
- 11th BRSI Convention & International Conference on Emerging Trends in Biotechnology” held at JNU, Delhi during Nov 6th-9th, 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. Neurodegenerative diseases Alzheimer and Parkinson’s disease
3. Genomics and Proteomics
4. Molecular interaction with 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
- Head Department of Biochemistry at Shivaji University, Kolhapur from 2019 till date
- Head Department of Environmental Biotechnology, SUK from 2019 till date
- Head Department of Medical Information Management, SUK in collaboration with Hochschule Hannover University, Germany from 2019 till date

Research Mentorship

Sr. no	Name	Research Topic	Year	Current Position
Ph. D (Awarded) [23]				
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	2009	Assistant Professor, Solapur

		textile dye degradation.		
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.	<i>Penicillium oschrocoloum</i> : 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 plant sources	2013	Post-doctoral fellow at NCCS, Pune
12	Dr. Patil A. V.	Evaluation of phytoremediation potential of <i>Sesuvium portulacastrum</i> and <i>Tagetes patula</i> 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 <i>Anacardium occidentale</i> and <i>Carissa</i> 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 <i>Mucuna sanjappae</i> , a new <i>Mucuna</i> 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, Yashwantrao 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) [1]				
1	Mrs. Bharati	Phytochemical investigation and molecular phylogeny of <i>Drimia</i>	2020	DBT-IPLS -SRF

	Rajput	species.	
Research students working [7]			
	Name	Research Topic	Fellowship/Associate
1	Ms. Manali R. Rane	Study of Biochemical and medicinal properties of <i>Mucuna</i> species: Special emphasis on edible variety.	DBT-IPLS -SRF
2	Mr. Chetan B. Aware	Studies on phytochemical composition and medicinal properties of <i>Mucuna macrocarpa</i> : Special emphasis on anti-parkinson's activity	CSIR-SRF
3	Mr. Govind D. Vyavahare	Sorption of environmental toxicants using agro-industrial waste derived biochar	Chief Minister Special Research Fellowship Gov. Of Maharashtra
4	Mr. Suresh S. Suryawanshi	Studies on Biochemical and medicinal properties on <i>Mucuna imbricate</i> : Special emphasis on Parkinson's disease treatment	ICMR-SRF
5	Ms. Devashree N. Patil	Studies on <i>Pancreatium</i> 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 <i>in vitro</i> and <i>in vivo</i> study using <i>Candida albicans</i>	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 300 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 thirteen 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 172 papers, 2 patents and guided 23(8) Ph.D. students and four post-doctoral fellows. 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 'Swachh Bharat Mission' programme. The research work undertaken led to "**Lab to Land Technology**"; presently work is in progress with CETP Kagal, MIDC for decolorization and detoxification of textile industry effluent; to provide clean and purified water to the society for agriculture with the aim of resources recycling and conservation. Presently, field trials (45 Acres) are in progress using microbial and phytoremediation strategy. Professor Jadhav was PI of inter disciplinary project for life sciences of DBT (**IPLS**) which was successfully completed.

Simultaneously, Professor Jadhav is actively working on Parkinson's and Alzheimer's disease and mainly explored the plant Mucuna for the isolation of L-Dopa and

galantamine, a drug widely used in the treatment of neurodegenerative diseases. 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, India. She is a Member of NASI and Fellow of MASc. Recently, she has been bestowed with “Best Teacher Award” by Shivaji University, Kolhapur. She is also recipient of prestigious women associations’ awards. Professor Jadhav has participated in many national and international conferences and is a member of many national and international advisory committees and actively working at schools, junior and senior colleges for scientific activities.

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 countries. 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.

Recently Umbrella Proposal on **Research and Development in Jaggery Process and Product development** is in pipeline in collaboration with Regional Sugarcane and Jaggery Research Station, Kolhapur ,Shivaji University, Kolhapur, Institute of Chemical Technology(ICT) Mumbai, Indian Institute of Technology Bombay(IIT) Mumbai to study Kolhapur Jaggery with modern technological approach. **(10 Crores)**(RGSTC)

7. Editorial Board member

8. REVIEWER OF THE INTERNATIONAL JOURNALS : More than 40 Reviewed research papers (National and International 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 etc.

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, Effective use of SWAYAM, MOOCS, MOODLE, ZOOM and WebEx etc

9. FUNDED PROJECTS

Research Projects in Progress/ Completed

Infrastructure Development Grants for the Department:

Sr. No.	Title of the project	Project Value (Rs. In lakh)	Granting agency	Date of start	Date of Completion
1	Integrated eco-electrogenic system for efficient and sustainable treatment of textile wastewater”	134.87	DBT, New Delhi	2017	2020
2	Conversion of Traditional Jaggery Rounds into Free Flowing Stable Jaggery Granules	108.72	RGSTC, Mumbai	2014	2017
3	Construction of	29.75	DBT,	2014	2017

	wetland-A phytoremediation treatment process for the degradation of dyes from textile effluent		New Delhi		
4	DBT-Shivaji University Kolhapur- Interdisciplinary Programme on Life Science for Advanced Research and Education	501.00	DBT, New Delhi	2012	2017
5	Biotechnology Departments Sophisticated Instrumentation Facilities	300.00	Government of Maharashtra	2012	2013
6	Biodegradation of textile dyes (Scarlet RR, Rubine GFL, Brown 3REL, Methyl Red, Brilliant Blue, Golden Yellow HER and Remazol Red) using <i>Galactomyces</i> <i>geotrichum</i> MTCC 1360 and consortia with <i>Brevibacillus</i> <i>laterosporus</i> .	51.66	DBT, New Delhi	2008	2011
7	Biodegradation of triphenylmethane dyes <i>Penicillium</i> <i>ochrochloron</i> (SERB- Fast Track Young Scientist Scheme)	11	DST, New Delhi	2005	2008

✓ **‘Umbrella proposal’** entitled Research and Development in Jaggery Process and Product development prepared by Shivaji University specially for Kolhapur Jaggery related research in collaboration with reputed institutes like IIT, ICT and Kolhapur Jaggery Research Center-In pipeline

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 ATTENDED AND ORGANIZED

1. **Jyoti P. Jadhav**, 9th Annual International Conference of Indian Academy of Biomedical Science (IABSCON-2020) at D. Y. Patil Medical College, Kolhapur on 27 to 29th February 2020.
2. **Jyoti P. Jadhav**, Lead college activity “**Microbial analysis of Jaggery**” at Rajaram College, Kolhapur, on 23rd February 2019
3. **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.
4. **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 biotechnological research and innovation for sustainable development (BioSD) organized by CSIR-IICT, Hyderabad.
5. **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.
6. 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 cytogenotoxicity studies, International conference on “Innovative Research in Science and Technology” held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.
7. Swati T. Gurme, Kiran D. Pawar, Vishwas A. Bapat, **Jyoti P. Jadhav**, Establishment of somatic embryogenesis and assessment of genetic fidelity in *Amorphophallus paeoniifolius*, International conference on “Innovative Research in Science and Technology” held on 7th -8th November, 2017 organized by Gokhale college, Kolhapur.
8. 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.

9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. **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.
17. 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.

18. 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.
19. **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).
20. **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).
21. 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).
22. 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).
23. 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).
24. **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).
25. 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).
26. 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).
27. **Jyoti P. Jadhav**, Attended workshop on gel based proteomics, proteomics Society of India, IIT Mumbai, December, 10-11, 2014 (International Conference).
28. **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).
29. “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).
30. 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).
31. 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).
 32. 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).
 33. 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 olmstedii* fish” International conference on Emerging trends in Biotechnology, ICETB, JNU, Delhi, November 6-9, 2014 (International Conference).
 34. 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).
 35. 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).
 36. **Jadhav J.P.** Resource person for special winter school programme, Department of chemistry, Shivaji University, Kolhapur, 11th November- 1st December, 2013
 37. 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).
 38. Desai M. P., Otari A. V., Apine O.A., **Jadhav J.P.** Study of enzyme activity of tryptophan amino transferase and its role in plant growth promotion, 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).
 39. Patil R. R., Bapat V. A., **Jadhav J. P.** Extracts from *Bidens pilosa* L. Leaves: Influence of extraction solvents on yield of phytochemical constituents and antioxidant properties, Advances in Biotechnology and Bioinformatics ICABB, Pune. November 25-27, 2013 (International Conference).
 40. Kolekar P.D., Apine O.A., Patil S.A., Patil N.S., Chavan D.B., **Jadhav J.P.** Role of microbial consortium isolated from a pesticide contaminated soil in Atrazine degradation, Advances in Biotechnology and Bioinformatics ICABB, Pune. November 25-27, 2013 (International Conference).
 41. Patil P.S., Patil V.S., Surwase S. V., **Jadhav J.P.** Decolorization and degradation of textile effluent by bacterial consortium PMB11, Advances in Biotechnology and Bioinformatics ICABB, Pune. November 25-27, 2013 (International Conference).

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43. Kore M.V., **Jadhav J.P.**, Govindwar S.P., Sartale G.D. Production of cellulolytic enzymes under solid state fermentation by using agricultural waste- A plausible approach, Advances in Biotechnology and Bioinformatics ICABB, Pune. November 25- 27, 2013 (International Conference).
44. **Jadhav, J. P.** (2013) Research Scope and Applications of Biotechnology (Key Note) YCS Satara, September, 3, 2013 (National Conference).
45. **Jadhav, J. P.** (2013) Attended a seminar on Mass Spectrometry at Pune, August, 23, 2013 (International Conference).
46. **Jadhav, J. P.** (2013) Organized a workshop on “Use of DNA Barcoding Techniques for Species Identification” 16 – 18 September, 2013. Department of Biotechnology, Shivaji University, Kolhapur, India.
47. Godge A. A., Salunkhe K. T., Upadhye A.L., Patil R. R., Bapat V. A., **Jadhav J. P.** (2013) In vitro assessment of *Mucuna pruriens* for L-DOPA analysis, Challenges and Opportunities in Life Sciences (COLS), Department of Biochemistry, Microbiology and Biotechnology, Shivaji University, Kolhapur, Feb, 8-9, 2013 (National Conference).
48. Gorpade S., Kambale L., Mane S., **Jadhav J. P.** (2013) Sweet lemon, Orange peel waste pretreatment with steam explosion and boil for bioethanol production, Challenges and Opportunities in Life Sciences (COLS), Department of Biochemistry, Microbiology and Biotechnology, Shivaji University, Kolhapur, Feb, 8-9, 2013 (National Conference).
49. Patil A. V. and **Jadhav J. P.** (2013) Adventitious roots cultures of *Tagetes patula* for the treatment of textile effluent and synthetic mixtures of dyes, Challenges and Opportunities in Life Sciences (COLS), Department of Biochemistry, Microbiology and Biotechnology, Shivaji University, Kolhapur, Feb, 8-9, 2013 (National Conference).
50. Patil P. S., Patil V. S., **Jadhav J. P.** (2013) Biodegradation of textile dye Reactive Red 198 by bacterial consortia, Applied Microbiology for globe protection, Department of Microbiology and biochemistry, Yashwantrao Chavan Institute of science, Satara, Maharashtra, January, 11-12, 2013 (National Conference).
51. Chougule A.S., Jadhav S.B., **Jadhav J. P.** (2012) Textile wastewater treatment by bioremediation process optimization, analytical analysis and toxicological scrutiny, Sustainable water resource, development and management, Department of Environment science, Shivaji University, Kolhapur, December, 20-21, 2012 (National Conference).
52. Watharkar A. D., Rane N. R., **Jadhav J. P.** (2012) Phytoremediation of simulated mixture of textile dyes by invitro built consortium of *Petunia grandiflora* and *Gailardia grandiflora*, Sustainable water resource, development and management, Department of Environment science, Shivaji University, Kolhapur, December, 20-21, 2012 (National Conference).
53. Surwase S. V., Deshpande K. K., Phugare S. S., **Jadhav J. P.** (2012) Microbial degradation of Red HE7b and its toxicity analysis. Sustainable water resource, development and management, Department of Environment science, Shivaji University, Kolhapur, December, 20-21, 2012 (National Conference).

54. **Jadhav, J. P.** (2012) A Workshop on 'Brain-storming session for application of technology for sustainable development in the state of Maharashtra', November, 26-27, 2012 (National Conference).
55. **Jadhav, J. P.** (2012)L-DOPA: An Anti-Parkinson's drug from various biological sources.International conference on industrial biotechnology (ICIB), Patiala, November, 21-23, 2012 (International Conference).
56. Patil, S. A., Surwase, S. N., Gurme, S. T., **Jadhav, J. P. (2012)** Medium optimization for L-DOPA production using response surface methodology by *Pseudomonas* sp.SSA, International conference on industrial biotechnology (ICIB), Patiala, November, 21-23, 2012 (International Conference).
57. Chougule, A. S., Jadhav, S. B., **Jadhav, J. P. (2012)** Bioremediation potential of *Pseudomonas* species SUK1 for the Removal of Textile waste. International conference on industrial biotechnology (ICIB), Patiala, November, 21-23, 2012 (International Conference).
58. Patil, A. V., Watharkar, A.D., **Jadhav J. P. (2012)** Phytoremediation potential of *Tagetes patula* L. for the Degradation of Textile Dye Reactive Blue 160. International conference on industrial biotechnology (ICIB), Patiala, November, 21-23, 2012 (International Conference).
59. Watharkar, A.D., Patil, A. V., Jadhav, S. B., **Jadhav, J. P. (2012)** Enhanced Phytotransformation of Navy Blue RX Dye by *Petunia grandiflora* Juss. With Rhizospheric Bacterial Synergism and subsequent Toxicity Analysis. International conference on industrial biotechnology (ICIB), Patiala, November, 21-23, 2012 (International Conference).
60. Gurav, R., **Jadhav, J. P. (2012)** Utilization of feather biomass generated in poultry processing as a source of organic nutrients to enhance the physiological and health beneficial value of fruit crops Department of Botany, Shivaji University, Kolhapur. November, 6-7, 2012 (National Conference).
61. Inamdar, S., Joshi, S., **Jadhav, J. P.**, Bapat, V. A. (2012) Innovative use of intact seeds of *Mucuna monosperma* weight for improved yield of L-DOPA. Department of Botany, Shivaji University, Kolhapur. November, 6-7, 2012 (National Conference).
62. **Jadhav, J. P. (2012)** National seminar on 'Medicinal plants: Status and Future' Department of Botany, Shivaji University, Kolhapur. November, 6-7, 2012 (National Conference).
63. **Jadhav, J. P. (2012)** National Workshop on Plants of Medicinal Potential from Western Ghats and Pharmaceuticals. Department of Botany. Shivaji University, Kolhapur. March, 22- 2012 (National Conference).
64. **Jadhav, J. P. (2012)** Indian STEPs and Business Incubators Association (ISBA). Pune, March 17-19, 2012 (International Conference).
65. **Jadhav, J. P. (2012)** National Workshop on Recent Advances in Agrochemicals. Shivaji University, Kolhapur. Feb. 28, 2012 (National Conference).
66. **Jadhav, J. P.** International Webinar on Recent Trends in Life Sciences. Shivaji University, Kolhapur. Jan. 19, 2012 (International Conference).
67. **JadhavJ. P. (2011)** Bioremediation: A potential approach for textile dye degradation, New Horizons in Biotechnology, Trivendrum. November 21-24, 2011 (International Conference).
68. Gurav R. G., Phugare S. S., **Jadhav, J. P. (2011)** Biodegradation of keratinous wastes by *Chryseobacterium* sp. RBT for the production of value added products,

- New Horizoins in Biotechnology, Trivendrum. November 21-24, 2011 (International Conference).
69. Patil A. V., Patil P. S., Patil, N. S., **Jadhav, J. P.** (2011) Role of *Sesuvium portulacastrum* in the remedialtion of textile effluent, New Horizoins in Biotechnology, Trivendrum. November 21-24, 2011 (International Conference).
 70. Surwase, S.N, Patil S.A., Apine O.A., **Jadhav, J. P.** (2011) Efficient microbial conversion of L-tyrosin to L- DOPA by *Brevundimonas* sp. SGJ, New Horizoins in Biotechnology, Trivendrum. November 21-24, 2011 (International Conference).
 71. Kolekar, P. D., **Jadhav, J. P.** (2011) Biodegradation of Atrszine by newly isolated *Rhodococcus* BCH2 Association of Microbiologist India, Chandighrah. November 3-6, 2011. (International Conference).
 72. Kumbhar, A.D., Patil, K.M., Gurav, R.G., **Jadhav, J.P.** (2011). Biodegradation of poultry waste using isolated bacterium and its application as biofertilizer. Recent trends in life sciences, Shivaji University, Kolhapur, India. March 4-5, 2011 (National Conference).
 73. Meshram, M.P., Yadav, S.B., **Jadhav, J.P.** (2011) Bioremediation of hexavalent chromium. Recent trends in life sciences, Shivaji University, Kolhapur, India. March, 4-5, 2011 (National Conference).
 74. Gurav, R.G., **Jadhav, J.P.** (2011). Hydrolysis of pigmented plumage using chroseobacterium sp. RBT and analyzing the product. Recent trends in life sciences, Shivaji University, Kolhapur, India. March 4-5, 2011 (National Conference).
 75. Keklekar S.V., Karole A.M., **Jadhav, J.P.** (2011). Biodegradation of textile dye Orange HE2R by bacteria isolated from grass root associated microflora. Recent trends in life sciences, Shivaji University, Kolhapur, India. March 4-5, 2011 (National Conference).
 76. Adki, V.S., **Jadhav, J.P.**, Bapat, V.A. (2011). Antioxidant properties of Nopalea cochenillifera pad (NCP) extracts. Recent trends in life sciences, Shivaji University, Kolhapur, India. March 4-5, 2011 (National Conference).
 77. Watharkar, A.D. Kamble A.A., Mulla A.S., **Jadhav, J.P.** (2011).Phytoremediation of textile dyes Brilliant Blue G and Navy Blue Rx *Petunia grandiflora*Juss. Recent trends in life sciences, Shivaji University, Kolhapur, India. March 4-5, 2011 (National Conference).
 78. Kulkarni M.S., Bile S.R., Nagkirti P.D., Mujawar S.P., **Jadhav, J.P.** (2011). Green synthesis of silver and gold nanoparticles. Recent trends in life sciences, Shivaji University, Kolhapur, India. March 4-5, 2011 (National Conference).
 79. Bhosale S.S., Karvande A.S., Gurav R.G., **Jadhav, J.P.** (2011). Keratinase enzyme production by isolated bacterium and its application in leather processing. Recent trends in life sciences, Shivaji University, Kolhapur, India. March 4-5, 2011 (National Conference).
 80. Bhosale, O.A., Palka, S.M. , Inamdar S.A., **Jadhav,J.P.** (2011). Phytate degrading enzyme production by fungal isolate. Recent trends in life sciences, Shivaji University, Kolhapur, India. March 4-5, 2011 (National Conference).
 81. Sonavane, A.M., Mali, S.D., Inamdar, S.A., **Jadhav, J.P.** (2011). Transformation of Ltyrosine to L-DOPA by fungus *Aspergillus terrus* NCIM 651. Recent trends in life sciences, Shivaji University, Kolhapur, India. March 4-5, 2011 (National Conference).

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83. Surwase, S.N., **Jadhav, J.P.** (2011). Production of L-DOPA from *Brevudimonas diminuta* strain B34. Recent trends in life sciences, Shivaji University, Kolhapur, India. March 4-5, 2011 (National Conference).
84. Mandavkar, N.S., Gurme, S.T., Surwase, S.N., Adki, V.S., **Jadhav J.P.** (2011). *In-Vitro* production of L-DOPA from *Brevundimonas diminuta* strain B34 and *Penicillium chrysogenum*- A comparative approach. BTBT Aurangabad 6-9 February 2011 (National Conference).
85. Patil, S.A., Apine O.A., Patil, A.V., **Jadhav, J.P.** (2011). Production of L-DOPA an antiparkinsons drug by novel bacterium *Pseudomonas* sp. SSA. BTBT Aurangabad 6-9 February 2011 (National Conference).
86. Patil, P.S., Jadhav, S.B., Phugare, S.S., **Jadhav, J.P.** (2011). Degradation analysis of reactive red 198 by hairy roots of *Tagetes Patula* L. (Marigold). BTBT Aurangabad 6-9 February 2011 (International Conference).
87. Wagh D.S., Yargatti A.Md. I., **Jadhav, J.P.** (2010). Effect of various ions on the activity of papain. XXXIII Conferance of Indian Botanical Society and International Symposium on The New Horizons of Botany. Department of Botany, Shivaji University, Kolhapur, India. November 10-12, 2010 (National Conference).
88. Bapat V.A., Desai N.S., **Jadhav, J.P.** Govindwar S.P. (2010) Sustainable detoxification of industrial dyes by In Vitro plant systems: A vaible option. XXXIII Conferance of Indian Botanical Society and International Symposium on The New Horizons of Botany. Department of Botany, Shivaji University, Kolhapur, India. November 10-12, 2010 (International Conference).
89. Apine O.A. Patil S.A. **Jadhav, J.P.** (2010). In vitro application of the bacterial synthesized Indole-3-acetic acid. XXXIII Conferance of Indian Botanical Society and International Symposium on The New Horizons of Botany. Department of Botany, Shivaji University, Kolhapur, India. November 10-12, 2010 (International Conference).
90. Patil A.V., Vinayak H., Lokhande P., Suprasanna , Bapat V.A., **Jadhav, J.P.** (2010). *Sesuvium portulacastrum* L: A promising halophyte in the field of phytoremediation. XXXIII Conferance of Indian Botanical Society and International Symposium on The New Horizons of Botany. Department of Botany, Shivaji University, Kolhapur, India. November 10-12, 2010 (National Conference).
91. Adki V.S., **Jadhav, J.P.**, Bapat V.A. (2010). Exploring the phytoremediation potential of the cactus (*Nopalea cochenillifera*) for textile dye degradation: Biochemical and Biotechnological insights. XXXIII Conferance of Indian Botanical Society and International Symposium on The New Horizons of Botany. Department of Botany, Shivaji University, Kolhapur, India. November 10-12, 2010 (National Conference).
92. Surwase, S.N., **Jadhav, J.P.** Production of L-DOPA (L-3dihydroxy phenylalanine) an antiparkinson's drug by *Pseudomonas* sp. SSA. National conference on molecular medicine and nanobiotechnology, Bangalore, India, October 13 and 14 2010 (National Conference).
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95. **Jadhav J. P.** and Surwase S. N. Optimization of fermentation conditions for melanin production from a bacterial isolate 50th Annual conference Association of Microbiologist of India (AMI 2009) NCL, Pune. December 15-18, 2009 (National Conference).
96. Apine O.A., Jadhav A. R., More P. V., Surwase S. N., Phugare S. S., **Jadhav J. P.** Indole-3-acetic acid (IAA) production by bacterial isolates from rhizosphere- A comparative approach. Association of Microbiologist of India (AMI 2009) NCL, Pune. December 15-18, 2009 (National Conference).
97. Patil S. A., Patil A. G., Surwase S. N., **Jadhav J. P.** Production of an Antiparkinson's drug L-3,4 dihydroxy phenyl alanine (L-DOPA) by bacterial isolate from soil. Association of Microbiologist of India (AMI 2009) NCL, Pune. December 15-18, 2009 (National Conference).
98. Anuradha N. Kagalkar , Umesh B. Jagtap, Viswas A. Bapat, **Jadhav J.P.**, Sanjay P. Govindwar Phytoremediation potential of *Typhonium flagelliforme* for the degradation of Brilliant Blue R International conference on Emerging Trends in Biotechnology and 6th annual convention of the Biotech Research Society , India Banaras Hindu University, Varanasi, December 04-06, 2009 (International Conference).
99. S.B. Jadhav, S.S. Phugare, S.A. Inamdar, A.V. Patil, **J.P. Jadhav** Kerosene biodegradation by an isolated bacterium from oil contaminated soil International conference on Emerging Trends in Biotechnology and 6th annual convention of the Biotech Research Society, India. Banaras Hindu University, Varanasi December 04-06, 2009 (International Conference).
100. S.S. Phugare, S.B. Jadhav, S.A. Inamdar, A.V. Patil, **J.P. Jadhav** Evaluation of dimethoate biodegradation efficiency of bacterial isolate and analysis of degradation metabolites International conference on Emerging Trends in Biotechnology and 6th annual convention of the Biotech Research Society , India. Banaras Hindu University, Varanasi December 04-06, 2009 (International Conference).
101. Surwase S., Shedbalkar U., Patil P., Phugare S. and **Jadhav J.** (2008) A novel approach for the melanin production by bacterial isolates presented at 3rd International Congress on Bioprocesses in Food Industries and 5th Convention of the the Biotech research Society of India at Osmania University, Hyderabad, India 6-8 Nov 2008 (International Conference).
102. **Jadhav J. P.** (2008) Biochemical approach for textile dye degradation presented at 3rd International Congress on Bioprocesses in Food Industries and 5th Convention of the Biotech research Society of India at Osmania University, Hyderabad, India 6-8 Nov, 2008 (International Conference).
103. Dhanve, R., Shedbalkar, U., Kalyani, D. and **Jadhav, J.** (2007) Biodegradation of Reactive yellow 84A dye using an isolated *Exiguobacterium* sp. RD3 presented at National Conference on Emerging Trends in Biotechnology for Modern Era, College of Computer Science and Information Technology, Latur, India. September 29-30, 2007 (National Conference).
104. Patil, P., Shedbalkar, U., Phugare, S. and **Jadhav, J.** (2007) Consortial biodegradation of Reactive Blue 59 presented at International Conference on New

- Horizons in Biotechnology (NHBT-2007) National Institute for Interdisciplinary Science & Technology (NIIST) Trivandrum - 695019, India. 26-29 November 2007 (International Conference).
105. Shedbalkar, U.U. and **Jadhav, J.P.** (2007) Fungi as efficient microbial inocula for textile dyes degradation. Presented at National symposium on recent trends in life sciences with special reference to Environmental biotechnology and Biodiversity held at Kusumtai Rajarambapu Patil Kanya Mahavidyalaya, Islampur, Dist. Sangli., February 10-12, 2007 (National Conference).
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 108. Kalyani, D.C., Patil, P.S., **Jadhav, J.P.** and Govindwar, S.P. (2006) Biodegradation of reactive textile dye Red BLI by an isolated bacterium SUD 1. Presented at 3rd Convention of BRSI and International conference on “Exploring horizons in Biotechnology: A global venture” held at Sardar Patel University, Vallabh Vidyanagar, November 2-4, 2006 (International Conference).
 109. Gomare, S.S., **Jadhav, J.P.** and Govindwar, S.P. (2006) Effect of different carbon, Nitrogen sources and inducers on the production of biotransformation enzymes in *Brevibacillus laterosporus* MTCC 2298. Presented at National symposium on recent trends in life sciences held at Department of Zoology, S.P.K. Mahavidyalaya, and Sawantwadi. December 1-2, 2006 (National Conference).
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 111. Dhanve, R.S., Shedbalkar, U.U. and **Jadhav, J.P.** (2006). Decolorization of Diazo reactive dye Navy Blue HE2R by an isolated bacterium SUK-6. Presented at “2nd Global sustainable Biotech congress” held at R.T.M. Nagpur University, Nagpur. December 18-21, 2006 (National Conference).
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calcoaceticus NCIM 2890. Presented at 3rd Convention of BRSI and International conference on “Exploring horizons in Biotechnology: A global venture” held at Sardar Patel University, Vallabh Vidyanagar, November 2-4, 2006 (International Conference).

115. Shedbalkar, U.U., Dhanve, R.S. and **Jadhav, J.P.** (2006) Biodegradation of textile dyes by *Penicillium ochrochloron* MTCC 517. Presented at 3rd Convention of BRSI and International conference on “Exploring horizons in Biotechnology: A global venture” held at Sardar Patel University, Vallabh Vidyanagar, November 2-4, 2006 (International Conference).
116. **Jadhav, J.P.**, and Govindwar, S.P. (2005): Biotransformation of malachite green by *Saccharomyces cerevisiae* MTCC 463. Presented at 46th Annual Conference “Microbiotech 2005” held at Osmania University, Hyderabad, December, 8-10, 2005 (National Conference).
117. **Jadhav, J.P.** and Patil, N.B. (2001) Separation and Characterisation of β -Glucanases from *Penicillium ochrochloron*. Presented at International Conference of SAARC Countries of Biotechnology in Agriculture, Industry and Environment, held at Karad, India, December 28, 2001 (International Conference).

Patent: 02

1. Applicants/ Inventors: S. N. Surwase, **J. P. Jadhav**; A process for increased melanin production Application no. 2941/MUM/2011; Patent granted (2017)
2. Applicants/ Inventors: S.A. Inamdar, V.A. Bapat, **J. P. Jadhav**; A method for extraction of L-DOPA from *Anethum Graveolens* leaves. Application no. 3486/MUM/2012; Date of filing: 10 December 2012

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 odyseeyi* 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) 145; Book Chapter: 4
Total Citations: 5619, h index: 39, i10 index: 90**

Scopus citations: Total publications:132, citations: 3359, h index:31

1. S. B. Parit, V. C. Karad, R. B. Patil, N. V. Pawar, R. P. Dhavale, M. Tawre, K. Pardesi, U. U. Jadhav, V. V. Dawkar, R. S. Tanpure, J. H. Kim, **J. P. Jadhav**, A. D. Chougale (2020) Bioinspired synthesis of multifunctional silver nanoparticles for enhanced antimicrobial and catalytic applications with tailored SPR properties. **Materials Today Chemistry** 17, 100285.
2. Vishal Chandanshive, Suhas Kadam, Niraj Rane, Byong-Hun Jeon, **Jyoti P. Jadhav**, Sanjay Govindwara (2020) *In situ* textile wastewater treatment in high rate transpiration system furrows planted with aquatic macrophytes and floating phytobeds. **Chemosphere** 252, 126513. (IF: 5.108)
3. Sneha R. Patil, Shubham S. Sutar, **Jyoti P. Jadhav** (2020) Sorption of crystal violet from aqueous solution using live roots of *Eichhornia crassipes*: Kinetic, isotherm, phyto and cyto-genotoxicity studies. *Environmental Technology & Innovation* 18, 100648. (IF: 2.8)
4. Ranjit Gurav, Shashi Kant Bhatia, Tae-Rim Choi, Ye-Lim Park, Jun Young Park, Yeong-Hoon Han, Govind Vyavahare, **Jyoti P. Jadhav**, Hun-Suk Song, Peizhou Yang, Jeong-Jun Yoon, Amit Bhatnagar, Yong-Keun Choi, Yung-Hun Yang (2020) Treatment of furazolidone contaminated water using banana pseudostem biochar engineered with facile synthesized magnetic nanocomposites. **Bioresource Technology** 297, 122472 (IF: 6.669)
5. Patil DN, Yadav SR, Patil SA, Bapat VA, **Jadhav JP** (2020) Multidimensional studies of *Pancreaticum parvum* Dalzell against acetylcholinesterase a potential enzyme for Alzheimer's management. **Journal of the American College of Nutrition** Accepted manuscript.
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9. Dayanand Dalawai, Chetan Aware, **Jyoti P. Jadhav** & Hosakatte Niranjana Murthy RP-HPLC analysis of diterpene lactones in leaves and stem of different species of *Andrographis*. (2019) *Natural Product Research*. 09 Sep 2019. (IF: 1.999).
10. Swati T. Gurme, Chetan B. Aware, Shripad N. Surwase, Chetan S. Chavan, **Jyoti P. Jadhav**. (2019) Synthesis of Melanin Mediated Silver Nanoparticles from *Aeromonas* sp. SNS Using Response Surface Methodology: Characterization with the Biomedical Applications and Photocatalytic Degradation of Brilliant Green. *Journal of Polymers and the Environment*. 27 July 2019. (IF: 2.765)
11. Devashree N. Patil, Sushama A. Patil, Srinivas Sistla, **Jyoti P. Jadhav** Comparative biophysical characterization: A screening tool for acetylcholinesterase inhibitors. (2019) *Plos One* May 31, 2019. (IF : 2.766)
12. Shubham S. Sutar, Prasanna J. Patil, Asif S. Tamboli, Devashree N. Patil, Onkar A. Apine, **Jyoti P. Jadhav**. Biodegradation and detoxification of malachite green by a newly isolated bioluminescent bacterium *Photobacterium leiognathi* strain MS under RSM optimized culture conditions. *Biocatalysis and Agricultural Biotechnology* 20 (2019) 101183.
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15. S. S. Suryawanshi, M. R. Rane, P. R. Kshirsagar, P. P. Kamble, **J. P. Jadhav** (2018) antioxidant, antimicrobial activity with mineral composition and lcms based phytochemical evaluation of some *mucuna* species from India. *International Journal of Pharmacy and Biological Sciences* (2018) 1061-1070.
16. Parag D Kolekar, Swapnil M Patil, Mangesh V Suryavanshi, Suresh S Suryawanshi, Rahul V Khandare, Sanjay P Govindwar, **JP Jadhav** (2019) Microcosm study of atrazine bioremediation by indigenous microorganisms and cytotoxicity of biodegraded metabolites. *Journal of Hazardous Materials* (IF: 6.4)
17. Govind Vyavahare, Pooja Jadhav, **JP Jadhav**, Ravishankar Patil, Chetan Aware, Devashree Patil, Anna Gophane, Yung-Hun Yang, Ranjit Gurav (2019) *Strategies*

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21. Swati T Gurme, Tukaram D Dongale, Shripad N Surwase, Sujata D Kumbhar, Gayatri M More, Vithoba L Patil, Pramod S Patil, Rajanish K Kamat, Jyoti P Jadhav (2018) An Organic Bipolar Resistive Switching Memory Device Based on Natural Melanin Synthesized From *Aeromonas* sp. *SNS. physica status solidi (a)* 215 (24), 1800550
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34. AR Gholave, KD Pawar, SR Yadav, VA Bapat **JP Jadhav** (2017) Reconstruction of molecular phylogeny of closely related *Amorphophallus* species of India using plastid DNA marker and fingerprinting approaches. *Physiology and Molecular Biology of Plants*. 23 (1), 155-167. (IF:0.88)
35. R Gurav, J Tang, **J Jadhav** (2017) Novel chitinase producer *Bacillus pumilus* RST25 isolated from the shellfish processing industry revealed antifungal potential against phyto-pathogens. *International Biodeterioration & Biodegradation*. 125, 228-234. (IF:2.9)
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Book Chapters:

1. SS Suryawanshi, PP Kamble, VA Bapat, JP Jadhav Parkinsonism and Potential of Mucuna Beans. Evidence-based Medicine. **Legume Crops**. DOI: 10.5772/intechopen.92855
2. Suresh S. Suryawanshi, Prajakta P. Kamble, Vishwas A. Bapat, **Jyoti P. Jadhav** (2020) Bioactive components of magical velvet beans. **Legume Crops**. DOI: 10.5772/intechopen.92124
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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** Conference of Indian Botanical Society and International Symposium on 'The New Horizons of Botany' organized by Department of Botany, Shivaji University, Kolhapur, India.

Contribution for academic development of the Department Biotechnology and Biochemistry

1. During the tenure of Head, Department of Biotechnology, SUK; I have enriched infrastructure facility by fetching numerous grants from various funding agencies. Department of Biotechnology secured position in top 20 departments of India consecutively for 4 years during this period. Secured 8th Rank on the basis of research/infrastructure in 2013. Also, contributed as Professor in department of Biochemistry for fetching numerous grants viz. DST-FIST (Rs. 32 Lakhs), DBT-Environmental Biotechnology (Rs. 180.45 Lakhs), UGC SAP phase I (Rs. 32 Lakhs) & phase II (Rs. 125 Lakhs).
2. Individual research project funding of Rs. 12 Crores through 9 major R &D projects.
3. One Umbrella proposal funding of Rs. 10 Crores entitled **Research and Development in Jaggery Process and Product development** in collaboration with Jaggery research Centre Kolhapur, ICT Mumbai, IITB Mumbai is likely to be sanctioned (In pipeline)
4. Department (Biotechnology, Biochemistry) is actively involved in research work DST-PURSE program of the University.
5. Department of Biotechnology, Biochemistry are recognized as top two departments amongst all life science departments on SUK, Campus
6. Department received worldwide recognition in the area of "**Decolorization**" (as evidenced from SCOPUS: Publications: 153, *h* index: 47, Citations: 7075, *i10* index: 127) in which department is working for degradation and detoxification of textile industrial wastewater.
7. Department is working in collaboration with two Korean Universities. Department of Earth Resources and Environmental Engineering, Hanyang University, Seoul and Department of Biological Engineering, College of Engineering, Konkuk University, Seoul, Republic of Korea
8. Sophisticated instrumentation facilities for advanced research in Genomics

and Proteomics and Environmental Biotechnology are developed, the present facility is *at par* with frontline research institutes.

9. Covid-19 test facility is under way in association with Department of Biotechnology.

Significant Contributions:

1. Vice-Chancellor's Nominee: For the Principal, Director, Professor, Assistant Professor selection committee of Shivaji University Kolhapur
2. Worked as a expert in different committees of at schools and colleges in the Jurisdictions of Shivaji University, Kolhapur
3. Working as a chairman for conduction of Ph.D. Viva-vice for Department of Biotechnology, Department of Biochemistry, and Department of Microbiology
4. Working as subject expert for Biochemisrty, Biotechnology, Microbiology, Pharmacy, Biotechnology Engineering, Food-Science and Technology
5. Working for the development of Biotechnology subject in colleges under the jurisdiction of Shivaji University, Kolhapur.
6. Delivered lectures for State level training programme for Biology teachers of Junior college regarding the Biotechnology syllabus.

Prof. Jyoti P. Jadhav