

CURRICULUM VITAE

Name : **Dr. Shailesh Kumar Jadhav**

Father's Name : Late Shri S.R. Jadhav

Date of Birth : 07.05.1962 (Seventh May Nineteen Sixty Two)
Age - 60

Address : Office:
School of Studies in Biotechnology, Pt. Ravishankar
Shukla University, Raipur, 492010, (Chhattisgarh)
Phone – 098271 14218 (M), 0771-2263022 (O)
Residence:
Jadhav Niwas, Jai-Hind Chowk, Rajatalab. Raipur
(Chhattisgarh) – 492001,
Email - jadhav9862@gmail.com

**Educational Qualification/
Specialization** : M.Sc., Ph.D.
Botany, Biotechnology and Microbiology

Other Qualification : LL.B., B. Music

Experience : **Teaching :** **36 Years (Botany & Microbiology,
Biotechnology)**
Research : **31 Years**
Administration: • **Head of Department- 9 years**
• **O.S.D. Confidential section- 18
years**
• **Coordinator UGC coaching
center – 5 years**

Present Position : **Professor** (From September-2008- Cont..) (**14 Year**)
School of Studies in Biotechnology
Pt. Ravishankar Shukla University, Raipur, 492010
Chhattisgarh

**Professional Experience
(Previous)** : **1. Asst. Professor (Botany)**
Department of Botany and Microbiology,
Govt. Autonomous College of Science,
Raipur (C.G.) 492010 (From 1987 to 2003) (**18 Years**)

2. Professor (Botany)
Department of Botany and Microbiology,
Govt. Autonomous College of Science,
Raipur (C.G.) 492010 (From 2006)

Note: On Lien

3. **Reader (Bioscience)**
School of Studies in Biotechnology
Pt. Ravishankar Shukla University,
Raipur (C.G.) 492010 (From 2003 to 2006) **(3 Years)**
4. **Reader (Biotechnology)**
School of Studies in Biotechnology
Pt. Ravishankar Shukla University,
Raipur (C.G.) – 492010 (From 2006 to 2008) **(2 Years)**

Academic Experience

- : **Dean of Faculty in Life Sciences**
Pt. Ravishankar Shukla University, Raipur, 492010
Chhattisgarh
(From 2018- 2020)
- In-charge Dean of Faculty in Law**
Pt. Ravishankar Shukla University, Raipur, 492010
Chhattisgarh
(2020- 1 Year)
- Head**
School of Studies in Biotechnology Pt. Ravishankar
Shukla University, Raipur (C.G.) – 492010
(From 2010 to 30.06.2019) **(9 Years)**
- Chairman**
Board of Study of Biotechnology, Pt Ravishankar Shukla
University, Raipur, (C.G.)
(From 2010 to 2017) **(7 Years)** &
(From 2020 to Contd.)

Administrative Experience

- : **Registrar**
Pt. D.U.M. Health & Ayush University, Raipur,
13/04/2018 to 12/09/2018 **(5 Months)**
- O.S.D.** (As In-charge)
Confidential Section, Pt. Ravishankar Shukla
University, Raipur, 492010 Chhattisgarh
(From November- 2004 to Still Continue) **(18 Years)**
- Coordinator**
SC/ST cell, Pt. Ravishankar Shukla University, Raipur
(C.G.) (From 2012 to Still Continue) **(10 Years)**
- Coordinator**
UGC coaching center, Pt. Ravishankar Shukla
University, Raipur (C.G) (From 2012 to 2017) **(5 Years)**

Research Papers

- Total Published** : **165**
Published in Journals : **138** (List attached)
Published in Proceeding : **27** (List attached)

Book Publication	: 12 (List attached)
Book Chapter	: 7 (List attached)
Ph.D. Supervisor	: Awarded : 27 (List Attached) Registered : 04
M. Phil.	: 47
Conferences	: National 35 International 10
Foreign Visit	: 05 (List attached)
Research Projects	: 07 (List attached)
Member of Executive Council	: Pt. Sunderlal Sharma Open (State Government) University, Bilaspur : Member of Governing Body, Durga College Raipur : Member Senate of NIPER-Ahmedabad, Gujarat : Pt. Ravishankar Shukla University, Raipur
Member of Academic Council	: 1. Pt. Ravishankar Shukla University, Raipur 2. Pt. Sunderlal Sharma Open University, Bilaspur 3. CG AYUSH and Health University, Raipur 4. Government PG Girls College Raipur 5. Govt. Nagarjuna PG Science College, Raipur (C.G) 6. ISBM University, Gariyaband (C.G.)
Member of Expert	State Level Expert Appraisal Committee, for Environment Impact Assessment, Chhattisgarh state, approval by Ministry of Environment, Forest and Climate.
Member of Ethical Committee	: Member Ethical committee as expert AIIMS Raipur
Member of Board of Studies	: 1. Board of Biotechnology, Pt. Ravishankar Shukla University, Raipur (2003 to 2010) 2. Board of Microbiology, Bilaspur University, Bilaspur 3. Board of Biotechnology, Bastar University, Jagdalpur 4. Board of Botany, (As Subject Expert) S G B Amravati University, Amravati (2006 – 2011) 5. Government N P G College Raipur (C.G.) 6. Government PG Girls College Raipur (C.G.) 7. Government Digvijaya College, Rajnandgaon (C.G.) 8. AMITY University Raipur Campus , Raipur 9. Subject Expert in Botany, RTM University, Nagpur 10. Subject Expert in Biotechnology, Hemchand Yadav Vishwavidyalaya, Durg

- Member of Selection committee :**
1. Pt. Ravishankar Shukla University, Raipur
 2. G.B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand
 3. Lalit Narayan Mithila University, Darbhanga, Bihar
 4. Guru Ghasidas Central University, Bilaspur, Chhattisgarh (as subject expert)
 5. Indira Gandhi Agriculture University, Raipur, Chhattisgarh
 6. ABV University, Bilaspur, Chhattisgarh
 7. Indira Gandhi National Tribal University, Amarkantak (MP)
 8. Baster University, Jagdalpur, Chhattisgarh
 9. Sunder Lal Sharma Open University, Bilaspur, Chhattisgarh
 10. Public Service Commission, Chhattisgarh State, Raipur CG
 11. Staff Service Commission, Central Zone, Raipur
 12. State Selection Board, Government of Odisha, Bhubaneswar
 13. AIIMS Raipur
 14. More than 10 Private affiliated Colleges of Pt. Ravishankar University, Raipur Chhattisgarh
 15. GGU Central University, Bilaspur as Visitors Nominee
 16. SGB Amravati University, Amravati, MS, as Subject expert
- President :** Microbiologists Society for Chhattisgarh state. (Microbiologists Society, India. (July 2019- June 2021) (Reg. No. MAH/4814/SAT))
- Joint Secretary :** Indian Aerobiological Society (upto 20th Dec 2022)
- Secretary & Treasurer :** Indian Aerobiological Society (from 21st Dec 2022 to cont.)
- Editorship :** **Associate Editor:** Indian Journal of Aerobiology (ISSN: 0971-1546)
Editor: International Journal of Botany (ISSN: 1811-9700).
Associate Editor: Deccan Current Science, National Journal (ISSN 0975-3044) Jalana, Aurangabad M S

- Life Membership** : 1. Indian Aerobiological Society, New Delhi
2. Indian Science Congress, Kolkata W B
3. Society for Ecological and Environmental Development (SEED), Bhilai, Chhattisgarh.
4. Advance Plant and Sciences Muzaffar Nagar
5. Research Journal of Biotechnology, Indore
6. Current Trends in Biotechnology and Pharmacy (An International Scientific Journal) Association of Biotechnology and Pharmacy, Guntur, Andhra Pradesh – 522 002.
- Fellow Member** : 1. International Society of Biotechnology, Indore.
2. International Congress of Chemistry and Environment Indore
3. Advanced Plant Sciences Muzaffarpur Nagar
- Research Project Evaluation Committee** : 1. UGC Major Project Subject in Biotechnology
2. CG Science and Technology, Raipur Chhattisgarh
3. Ayush and Health University, Raipur Chhattisgarh
4. Govt. Digvijay College, Rajnadaon, Chhattisgarh
5. DRDO, Bioenergy Project, New Delhi
6. CSIR, ExtraMural Research-II Project, New Delhi
- Coordinator** : 1. UGC – NET exam 2012 to 2014
2. CSIR-UGC – NET Exam 2015 to 2017
3. Coaching for entry in services (UGC scheme) 2012 to 2017
4. Coaching for NET examination (UGC scheme) 2012 to 2017
5. Remedial Classes (UGC scheme) 2012 to 2017
6. Medical PG Entrance Examination – 2014 & 2015 PDDU, AYUSH (Medical) University, Raipur
- Administrative Experience (At University Level)** : 1. Reservation Roster Committee (Chairman)
2. Departmental Promotion Committee (Chairman)
3. Quarter Allotment Committee (Chairman)
4. Convocation Committee (Coordinator)
5. Inquiry Committee (Member)
6. Scrutiny Committee (Application for Faculty position) (Member)
7. Departmental Seniority List Committee (Chairman)
- Program Organized:** : 1. Entrepreneur Awareness Camp 1994 (for Villagers Students) at Balodabazar, Raipur Sponsored by DST.

2. Science Contact Program – 2000 (For SC/ST Students) Sponsored by DST.
3. Nature Camp at Bhilai as source scientist.
4. 14th National Conference on Aerobiology, (**Joint Secretary & Treasurer**) School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur (C.G.) **15th – 17th January, 2007.**
5. Refresher Course in Biotechnology during **17-07-2012 to 06-08-2012**, Academic Staff College, Pt. Ravishankar Shukla University, Raipur.
(As Course Coordinator)
6. Organized Consultative Meeting on “Assessment of training needs and capacities of the concerning agencies in respect of threat assessment and CAMP exercise on a long term basis” on 13th March 2013, Collaboration with FRLHT, Bangalore. (**Act as Nodal Officer**).
7. National Conference on “Biotechnology and Traditional Knowledge” held on 22 to 24 Nov. 2013. School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh. (**As a Convener**)
8. National Seminar on “Inventions and Prospects in Biotechnology” held on 02 to 04 January’ 2016. School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh. (**As a Convener**)
9. One Day Workshop on “Opportunities and Entrepreneurship in Biotechnology” (March 31, 2017) Sponsored by Chhattisgarh Biotechnology Promotion Society, Government of Chhattisgarh, Raipur. (**As a Convener**)
10. National Conference on “Recent Advances and Trends in Biotechnology” held on 10 to 12 Jan. 2020. School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh. (**As a Convener**)

11. Faculty Induction Program (Gurudakshata) during **22-08-2022 to 24-09-2022**, Human Resource Development Centre, Pt. Ravishankar Shukla University, Raipur.

(As Course Coordinator)

Social Work

- : 1. Founder Member of Andh. Shraddha Nirmulan Samiti, Raipur (C.G.)
2. Founder member of Chhattisgarh Vigayan Munch, Raipur (C.G.).

LIST OF PUBLISHED RESEARCH PAPERS

1. Veena Thakur, J Satya Eswari and **SK Jadhav** (2023) A comparative study of (Response surface methodology) RSM and (Artificial Neural Network and Genetic Algorithm) ANN-GA for optimization of biohydrogen production by *Pseudomonas aeuroginosa* SBT-Pa 092. *Journal of Emerging Technology and Innovative Research*, 10(3): d52-d66. (Scopus, UGC Care)
2. D. Koreti, A. Kosre, **S.K. Jadhav** and N. K. Chandrawanshi (2022) A comprehensive review on oleaginous bacteria: an alternative source for biodiesel production. *Bioresour. Bioprocess.* 9, 47. <https://doi.org/10.1186/s40643-022-00527-1>. (Scopus, SCIE).
3. SK Kumbhakar, R Chauhan, V Singh, **SK Jadhav**, A Quraishi (2022) Screening of a new candidate tree legume-*Pithecellobium dulce* (Roxb.) Benth., for lead remediation. *Brazilian Journal of Botany*, 45(3), 929-942. <https://doi.org/10.1007/s40415-022-00830-3> (SCI IF: 1.368)
4. P. Chouhan, D. Koreti, A. Kosre, R. Chauhan, **S.K. Jadhav** and N. K. Chandrawanshi (2022) Production and Assessment of Stick-Shaped Spawns of Oyster Mushroom from Banana Leaf-Midribs. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* 92, 405–414. <https://doi.org/10.1007/s40011-021-01327-x>. (Scopus, UGC-Care)
5. Satyam Kumar Kumbhakar, Ravishankar Chauhan, **SK Jadhav**, Afaque Quraishi (2022) Lead induced-toxicity in vegetables, its mitigation strategies, and potential health risk assessment: a review. *International Journal of Environmental Science*. <https://doi.org/10.1007/s13762-022-04025-x>. (SCI IF: 3.519)
6. Dristi Verma, Jai Shankar Paul, Shubhra Tiwari and **S.K. Jadhav** (2022) A Review on Role of Nanomaterials in Bioconversion of Sustainable Fuel Bioethanol *Waste and Biomass Valorization*. <https://doi.org/10.1007/s12649-022-01843-5>. (SCI IF: 3.449)
7. Ankita Rathi, Nisha Gupta, Vani Dhruw, Esmil Beliya, Shubhra Tiwari, Jai Shankar Paul and **S.K. Jadhav** (2022) Valorization of rice milled by-products (rice husk and de-oiled rice bran) into α -amylase with its process optimization, partial purification and kinetic study. *Process Biochemistry* 120:101–113. <https://doi.org/10.1016/j.procbio.2022.06.006>. (SCI IF: 4.885)
8. Nisha Gupta, Esmil Beliya, Jai Shankar Paul and **S.K. Jadhav** (2022) Nanoarmoured α - amylase: A route leading to exceptional stability, catalysis and reusability for industrial applications. *Coordination Chemistry Reviews*, 464:214557, 1-20. <https://doi.org/10.1016/j.ccr.2022.214557>. (SCI IF: 24.833)
9. Shubhra Tiwari, Esmil Beliya, Monika Waswani, Khushbu Khawase, Dristi Verma, Nisha Gupta, Jai Shankar Paul and **Shailesh Kumar Jadhav** (2022) Rice Husk: A Potent Lignocellulosic Biomass for Second Generation Bioethanol Production from *Klebsiella oxytoca* ATCC 13182. *Waste and Biomass Valorization*. <https://doi.org/10.1007/s12649-022-01681-5>. (SCI IF: 3.449)

10. Priyanka Chouhan, Deepali Koreti, Anjali Kosre, Ravishankar Chauhan, **S.K. Jadhav**, Nagendra Kumar Chandrawanshi (2022) Production and Assessment of Stick-Shaped Spawns of Oyster Mushroom from Banana Leaf-Midribs. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* 92(2):405–414. <https://doi.org/10.1007/s40011-021-01327-x> (Scopus)
11. P.S. Parihar, S. Keshavkant, **S.K. Jadhav** (2022) Electrogenic potential of *Enterococcus faecalis* DWW1 isolated from the anodic biofilm of a dairy wastewater fed dual chambered microbial fuel cell. *Journal of Water Process Engineering*, 45:102503. <https://doi.org/10.1016/j.jwpe.2021.102503>. (SCI IF: 5.485)
12. Nisha Gupta, Jai Shankar Paul and **S.K. Jadhav** (2021) *In Silico* Approaches to Reveal Structural Insights, Stability and Catalysis of Bacillus-Derived α -Amylases Prior to Advance Lab Experiments. *Journal of Computational Biophysics and Chemistry*, 20 (8), 853–867. <https://doi.org/10.1142/S2737416521500538> (SCI IF: 2.44)
13. Shriram Kunjam, GS Thakur, **SK Jadhav** (2021) Ethnobotanical Survey of Medicinal Plant Species used by Tribal Communities Around Katghora Tehsil of Korba District. *Advances in Plant Science*, 34 (I & II) 43 – 50.
14. Ritu Kunjam, Shriram Kunjam, V.K. Kanungo, **S.K. Jadhav** (2021) Aeromycoflora of phytopathogenic fungal spores at the periphery of Raipur City. *Indian Journal of Aerobiology*, 34(1): 05-11. (UGC CARE)
15. S Kunjam, SS Chauhan, R Chauhan, PK Mahish, **SK Jadhav** (2021) Addition of *Butea monosperma* var. Lutea (Fabaceae) in the flora of district Rajnandgaon, Chhattisgarh, India. *International Journal of Botany Studies* 6(3): 394-397.
16. Nisha Gupta, Esmil Beliya, Jai Shankar Paul, Shubhra Tiwari, Shriram Kunjam, **Shailesh Kumar Jadhav** (2021) Molecular strategies to enhance stability and catalysis of extremophile-derived α -amylase using computational biology. *Extremophiles*. <https://doi.org/10.1007/s00792-021-01223-2>. (SCI IF: 3.035)
17. Jai Shankar Paul, Nisha Gupta, Esmil Beliya, Shubhra Tiwari, **Shailesh Kumar Jadhav** (2021) Aspects and Recent Trends in Microbial α -Amylase: a Review. *Applied Biochemistry and Biotechnology*. <https://doi.org/10.1007/s12010-021-03546-4>. (SCI IF: 3.094)
18. Ritu Kunjam, V.K. Kanungo, **S.K. Jadhav** (2020) Airborne *Aspergillus* at some rural areas adjoining to Raipur city (C.G.) India. *Flora and Fauna*, 26(2): 206-208. <https://doi.org/10.33451/florafaua.v26i2pp206-208>. (UGC CARE)
19. Shriram Kunjam, **Shailesh Kumar Jadhav** (2020) Diversity of soil and leaf surface mycoflora: a source of aeromycoflora. *Indian Journal of Aerobiology*, 33(1 & 2): 9-16. (UGC CARE)
20. Ritu Kunjam, V.K. Kanungo, **S.K. Jadhav** (2020) Seasonal distribution of airborne fungi at the periphery of Raipur City, Chhattisgarh, India. *Indian Journal of Aerobiology*, 33(1 & 2): 41-45. (UGC CARE)

21. Jai Shankar Paul, **S.K. Jadhav**, Afaque Quraishi, M.L. Naik (2020) Ferret out a natural bio-pesticide: *Ophicordyceps nutans* in Central India and its interaction analysis with tree stink bug. *Proceedings of the Zoological Society*, 73: 316–319. DOI: 10.1007/s12595-020-00328-4. (Scopus)
22. Jai Shankar Paul, Esmil Beliya, Shubhra Tiwari, Karishma Patel, Nisha Gupta, **S.K. Jadhav** (2020) Production of biocatalyst α -amylase from agro-waste ‘Rice Bran’ by using *Bacillus tequilensis* TB5 and standardizing its production process. *Biocatalysis and Agricultural Biotechnology*, 26: 101648. DOI: <https://doi.org/10.1016/j.bcab.2020.101648>. (Scopus)
23. Veenu Joshi, G.D. Sharma and **S.K. Jadhav** (2020) Alkamides: Multifunctional Bioactive Agents in *Spilanthes* spp. *Journal of Scientific Research*, 64(1): 198-206. DOI: <http://dx.doi.org/10.37398/JSR.2020.640129>.
24. Gyanmani Ekka, **Shailesh Kumar Jadhav**, Afaque Quraishi (2020) Effect of exogenous additives on oxidative stress and defense system of a tree: *Zanthoxylum armatum* DC. under in vitro conditions. *Plant Cell Tissue and Organ Culture*. DOI <https://doi.org/10.1007/s11240-019-01759-4>.
25. Jai Shankar Paul, B.M. Lall, **S.K. Jadhav** and K.L. Tiwari (2019) Isolation and Identification of Novel *Bacillus tequilensis* TB5 from Vegetable Waste and Analyze the Effect of Rudiment Compounds on Bio-Catalytic α -Amylase Production. *Research & Reviews: A Journal of Microbiology and Virology*, 9(2): 39-50.
26. Reena Meshram and **Shailesh Kumar Jadhav** (2019) Treatment of oil refinery wastewater simultaneously with bioelectricity production in mediator-less microbial fuel using native gram positive *Bacillus* sp. *Research. J. Pharm and Tech*. 12(4): 1 – 9.
27. Tripti Agrawal, Afaque Quraishi and **Shailesh Kumar Jadhav** (2019) Bioethanol Production from *Madhuca latifolia* L. Flowers by a newly isolated strain of *Pichia kudriavzevii*. *Energy and Environment* 30(8). DOI10.1177/0958305X19852475 page 1 – 14
28. Tripti Agrawal, **Shailesh Kumar Jadhav** and Afaque Quraishi (2019) Bioethanol Production from an Agrowaste, Deoiled Raice Bran by *Sacchromyces cerevisiae* MTCC 4780 via optimization of Fermentation Parameters. *Environmental Asia* **12** (1): 20-24.
29. Kaur Inderpal, Khandwekar Sayali, Chauhan Ravishankar, Singh Vikram, **Jadhav SK**, Tiwari KL, Quraishi Afaque (2018) Exploring the efficiency of native tree species grown at mine tailings for phytoextraction of Iron and Lead. *Proceedings of the National Academy of Sciences India Section B-Biological Sciences*. Doi.org/10.1007/s40011-018-1010-0.
30. Inderpal Kaur, **Shailesh K Jadhav**, KL Tiwari, Afaque Quraishi (2018) Lead Tolerance and its Accumulation by a Tree Legume: *Dalbergia sissoo* DC. Bulletin of environmental contamination and toxicology. 1-8. Doi.org/10.1007/s00128-018-2419-0.
31. Mona Tandon, Veena Thakur, Kishan Lal Tiwari, **Shailesh Kumar Jadhav** (2018) *Enterobacter ludwigii* strain IF2SW-B4 isolated for bio-hydrogen production from rice bran and de-oiled rice bran. *Environmental Technology & Innovation*. 10: 345-354.

32. Samiksha Sharma, Kishan Lal Tiwari, **Shailesh Kumar Jadhav** (2018) “Diversity of fungal endophytes in *Typha latifolia* (L.) and their lead biosorption activity” *Euro-Mediterr. J. Environ. Integr.* 3:4. DOI 10.1007/s41207-017-0041-x.
33. Tikendra Kumar Verma, K.L. Tiwari and **S.K. Jadhav** (2017) “Removal of Fe(II) Using *Aspergillus flavus* from Aqueous Solution” *Indian Journal J. Sci. Res.* **13(2)** : 63-67.
34. Esmil Beliya, Kishan Lal Tiwari and **Shailesh Kumar Jadhav** (2017) “Bioconversion Study of Deoiled Rice Bran for Bioethanol Production” *Indian Journal J. Sci. Res.* **13(2)** : 21-24.
35. A. Kaushik and **S.K. Jadhav** (2017) “Conversion of waste to electricity in a microbial fuel cell using newly identified bacteria: *Pseudomonas fluorescens*” *International Journal of Environmental Science and Technology.* **14(8)**: 1771-1780.
36. Raju Mahobia, **Shailesh Kumar Jadhav** and Rekha Pimpalgaonkar (2017) “Atmospheric studies of fungal bioaerosols in the market area of Nawapara (Rajim), District- Raipur (Chhattisgarh)” *Indian Journal J. Sci. Res.* **13(1)**: 257-262.
37. Veena Thakur, Mona Tandon and **S.K. Jadhav** (2017) “Optimization of key factors for enhanced fermentative biohydrogen production from water hyacinth by RSM” *Current Science.* **113(4)** : 790-795.
38. Shriram Kunjam and **S.K. Jadhav** (2017) “Airborne Penicillium in the atmosphere of Panbanaras, Rajnandgaon district” *Indian J. Sci. Res.* **13(1)**: 29-33.
39. Afaque Quraishi, Snigdha Mehar, Durga Sahu, **Shailesh Kumar Jadhav** (2017) “*In Vitro* Mid-Term Conservation of *Acorus calamus* L. via Cold Storage of Encapsulated Microrhizome” *Brazilian Archives of Biology and Technology.* **60**: DOI: <http://dx.org/10.1590/1678-4324-2017160378>.
40. Reena Meshram and **Shailesh Kumar Jadhav** (2017) “Bioelectricity Production and Comparative Evaluation of Electrode Materials in Microbial Fuel Cells using Indigenous Anode-Reducing Bacterial Community from Wastewater of Rice-Based Industries” *Int. Journal of Renewable Energy Development.* **6(1)**: 83-92.
41. Kumudini Chandrakar, Rekha Nagwanshi, **S. K. Jadhav**, Kallol K. Ghosh, Manmohan L. Satnami (2017) “Antibacterial properties of amino acid functionalized silver nanoparticles” *Spectrochimica Acta Part A : Molecular and Biomolecular Spectroscopy.* **181** : 47 – 54.
42. Jai Shankar Paul, B.M. Lall, **S.K. Jadhav**, K.L. Tiwari (2017) “Parameter’s optimization and kinetics study of alpha-amylase enzyme of *Bacillus* sp. MB6 isolated from vegetable waste” *Process Biochemistry.* **52** : 123 – 129. <https://doi.org/10.1016/j.procbio.2016.10.005> (SCI IF: 4.885)
43. Beliya Esmil, Tiwari Kishan Lal and **Jadhav Shailesh Kumar** (2017) “Sustainable Approach for Bioethanol Production from Deoiled Rice Bran by *Zymomonas mobilis* MTCC 92” *Research Journal of Chemistry and Environment.* **21 (4)** : 12 – 18 .

44. Beulah Madhurima Lall, Jai Shankar Paul, **Shailesh Kumar Jadhav** and Kishan Lal Tiwari (2016) Effect of Carbon and Nitrogen Source a-Amylase Enzyme Production from *Bacillus subtilis* MB6. *Indian Journal of Aerobiology*, 29(1 & 2): 37-41. (UGC Care)
45. Shubha Thakkur, K.L. Tiwari and **S.K. Jadhav** (2016) “Effect of Different Cytokinins and Media Type on *in vitro* Shoot Proliferation of *Asparagus recemosus* Willd.” *Plant Tissue Cult. & Biotech.* **26 (2)** : 151 – 157.
46. Shahla Khan, V.K. Kanungo and **S.K. Jadhav** (2016) “Variation in Aeromycoflora of Raipur city with special reference to allergic diseases” *Indian J. Applied & Pure Bio.* **31(2)** : 131- 142.
47. Shahla Khan, Kanungo V.K. and **Jadhav S. K.** (2015) “Survey of Aeromycoflora of Commercial Complexes of Raipur City and the Effects of Fungal Spores in allergic Diseases” *Elixir Appl. Botany.* **87** : 35806 – 35811.
48. Alka Kaushik and S K Jadhav (2016) “Optimization of electrode material for bioelectricity production through microbial fuel cell”. भारतीय वैज्ञानिक एवं औद्योगिक अनुसंधान पत्रिका 24(2): 128-143.
49. Neha Behar, K.L. Tiwari and S.K. Jadhav (2016) “Semi-quantitative expression studies of genes involved in biosynthesis of curcuminoid in *Curcuma caesia* Roxb.” *Indian Journal of Biotechnology. Indian Journal of Biotechnology* 15 : 491-492.
50. Shabina Khan, Veena Thakur, **Jadhav S.K.**, Afaque Quraishi (2016) “Effect of chemical pretreatment on de-oiled rice bran for fermentative biohydrogen production” *CSVТУ International Journal of Biotechnology, Bioinformatics and Biomedical* **1(1)** : 20-24, 2016.
51. Chhaya Malagar, Shubhra Tiwari, **S.K. Jadhav** and K.L. Tiwari (2016) “Comparative Studies of *Saccharomyces cerevisiae* MTCC 4780 and *Pichia kudriavzevii* for Bioethanol Production Using Sal (*Shorea robusta*) seeds”. *Journal of Biofuels* **07 (1)**: 9-13. DOI : 10.5958/0976-4763.2016.00002.7
52. Ankita Sharma, K.L. Tiwari and **S.K. Jadhav** (2016) “Improvement of the Antirheumatic Substance Present in Medicinal Plants in Chhattisgarh Region”. *Ad. Plant Sci.* **29 (1)** : 123-128.
53. Tikendra Kumar Verma, K.L. Tiwari and **S.K. Jadhav** (2016) “Correlation between Iron Pollution and Physicochemical Characteristics of Effluent of Steel Industries from Urla, Raipur (Chhattisgarh), India”. *Res.J. Environ.*, **10 (3)**: 172-182.
54. Ravishankar Chauhan, Afaque Quraishi, **S.K. Jadhav**, S. Keshavkant (2016) “A Comprehensive review on pharmacological properties and biotechnological aspects of Genus *Chlorophytum*”. *Acta. Physiol. Plant* **38** : 116. DOI 10.1007/s11738-016-2132-8
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4. **“Fungal Biodiversity of Hospital Area” (2011)** Published by Lambert Academic Publishing, Germany. ISBN 978-3-8443-1733-6, pp; 1 – 304. (On the base of Ph D Thesis)
5. **“Atmospheric Fungal Diversity of Chhattisgarh” (2011)** Published by Lambert Academic Publishing, Germany. ISBN – 978-3-8454-3764-4 pp; 1- 296. (On the base of 08 years survey)
6. **“Green Gold Mine Azolla”** (2014) Published by Lambert Academic Publishing, Germany. ISBN –978-3-659-54782-9 pp; 1- 91. (On the base of research project).
7. **“Biotechnology and Traditional Knowledge”** (2014) Publisher, Biotech Books, New Delhi ISBN 978-81-7622-330-0 pp: 1 – 283 (Proceeding of National conference).
8. **“Banana Bunchy Top Virus: PCR primers designing and detection”** (2015) Published by Lambert Academic Publishing, Germany. ISBN 978-3-659-75636-8 pp; 1- 42. (On the base of M. Phil. Dissertation)
9. **“Bioethanol Production from Different Feedstocks”** (2015) Published by Lambert Academic Publishing, Germany, ISBN: 978-3-659-68629-0. pp: 1-77.
10. **“Paryavaran Pradushan - Samasya avam Nidan” (2017)** Publisher, Chhattisgarh Granth Academic, Raipur, 1 -548. (ISBN:978-93-82313-27-4).
11. **“Paryavaran Vigyan”** (2016) As per syllabus of Chhattisgarh Public Service Commission, Raipur, Publisher, Chhattisgarh Granth Academic, Raipur (ISBN:978-93-82313-21-3).
12. **“Prayogatmak Jaiv Prodyogiki avam Sukshma Jiv Vigyan”** Publisher, Chhattisgarh Granth Academic, Raipur, 1 -186. (ISBN:978-93-82313-45-8).

Book Chapters

1. Shubhra Tiwari, **SK Jadhav**, Gauri Dutt Sharma and Esmil Beliya (2020) Fungal Bioengineering in Biodiesel Production, Chapter-8, pp. 199-207. Springer Nature Switzerland AG 2020. Book: Abd. El-L. Heshan, R.S. Upadhyay, G.D. Sharma, C. Manoharachary, V.K. Gupta (ed.), Fungal Biotechnology and Bioengineering, ISBN: 978-3-030-41870-0. https://doi.org/10.1007/978-3-030-41870-0_8.
2. Shubhra Tiwari, **SK Jadhav**, Esmil Beliya, Jai Shankar Paul & GD Sharma (2020) Ethnic Fermented Beverages and Foods of Chhattisgarh, Chapter-5, pp. 121-138. Springer Nature Singapore Pte Ltd. 2020. Book: J. P. Tamang (ed.), Ethnic Fermented Foods and Beverages of India: Science History and Culture, ISBN: 978-981-15-1486-9. https://doi.org/10.1007/978-981-15-1486-9_5.
3. Gyanmani Ekka, **Shailesh Kumar Jadhav** and Afaque Quraishi (2020) An Overview of Genus *Zanthoxylum* with Special Reference to Its Herbal Significance and Application. In M Akram, RS Ahmed (Eds) Herbs and Spices. IntechOpen, Landon UK. DOI: <http://dx.doi.org/10.5772/intechopen.92459>. ISBN: 978-1-83962-936-5.
4. Veenu Joshi, Neelu Joshi, Amber Vyas and **S.K. Jadhav** (2021) Pathogenesis-related proteins: Role in plant defense. In: Sudisha Jogaiah (Ed.) Biocontrol Agents and Secondory Metabolites, Woodhead Publishing UK, an imprint of Elsevier, pp. 573-590.
5. Pramod Kumar Mahish, Nagendra Kumar Chandrawanshi, Shriram Kunjam, S.K. Jadhav (2021) Opportunities in the Living Lights, Special Reference to Bioluminescent Fungi. In Energy: Crises, Challenges and Solutions, Pardeep Singh, Suruchi Singh, Gaurav Kumar, Pooja Baweja (Ed.) John Wiley & Sons, Ltd. Pp. 191-207. <https://doi.org/10.1002/9781119741503.ch11>
6. Sudakshina Tiwari, Deepali Koreti, Anjali Kosre, Pramod Kumar Mahish, **S.K. Jadhav**, Nagendra Kumar Chandrawanshi (2021) Fungal Microbial Fuel Cells, Current Perspective and Future Challenges, an Opportunity for Energy Sources. In Energy: Crises, Challenges and Solutions, Pardeep Singh, Suruchi Singh, Gaurav Kumar, Pooja Baweja (Ed.) John Wiley & Sons, Ltd. Pp. 250-273. <https://doi.org/10.1002/9781119741503.ch14>.
7. Koreti, D., Kosre, A., Kumar, A., **Jadhav, S.K.**, Chandrawanshi, N.K. (2022). Potential Application of Edible Mushrooms in Nutrition-Medical Sector and Baking Industries. In: Shukla, A.C. (eds) Applied Mycology. Fungal Biology. Springer, Cham. https://doi.org/10.1007/978-3-030-90649-8_10.

National Conference/ Seminar/ Refresher course Organized and Chaired Session

1. 14th National Conference on Aerobiology. 15 January 2007.
2. Refresher Course (Biotechnology) 17 July to 06 August 2012. (Converner)
3. National Conference on Traditional Knowledge and Biotechnology, November 22-24, 2013 (Convener).
4. National Seminar on Innovations and Prospects in Biotechnology, January 2-4, 2016 (Convener)
5. Chaired Session: National Seminar on Advances in Environmental Science & Technology organized by Department of Botany, Govt. Digvijay Autonomous P.G. College, Rajnandgaon (C.G.) 23-24 January, 2017.
6. Chaired Session: National Seminar on Biodiversity of Medicinal and Aromatic Plants with respect to its Collection, Conservation & Characterization, organized by Department of Biotechnology, GD Rungta College of Science and Technology, Bhilai (C.G.) 28-29 January 2015.
7. National Conference on Recent Advances and Trends in Biotechnology, January 10-12, 2020. (Convener)
8. International e-Conference on Recent Advances in Biological Sciences & Opportunities in Entrepreneurship, January 07-08, 2022. (Convener)
9. Faculty Induction Program (Gurudakshata) during 22-08-2022 to 24-09-2022, Human Resource Development Centre, Pt. Ravishankar Shukla University, Raipur. (As Course Coordinator).
10. Chaired Session: 22nd National Conference on Aerobiology. 21-23 December 2022, organized by Indian Aerobiological Society in collaboration with Narayanrao Waghmare Mahavidyalaya Akhada Balapur (M.S.).

International Seminar Attended and Chaired Session

1. 3rd International Congress of Society for Ethnopharmacology, Raipur, India
Ethnopharmacology and Evaluation of Medicinal Plants - Global Perspectives (SFEC 2016)
February 19-21, 2016 Under the joint auspices NCNR, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh, India Society for Ethnopharmacology, Kolkata, India.
2. International Conference on Nanotechnology for Better Living, jointly organized by Department of Mechanical Engineering and Materials Science Programme Indian Institute of Technology Kanpur (IIT) Kanpur, (UP) and Special Centre for Nanoscience, Department of Physics, National Institute of Technology (NIT) Srinagar, India. 25-29 May 2016.

List of invited as a Resource person in various Orientation, Refresher, Seminar, and Conferences Programs

S.No.	Program Details
1.	Participated as a resource person in online webinar on “Indian Herbs Immunity Booster During COVID-19 in Indian Perspective” on 09/06/2020 at Department of Science, St. Aloysius Institute of Technology, Jabalpur (M.P.)
2.	Participated and delivered invited lecture on Preparation of national and international level competitive examination under Indian Council of Agricultural Research-Scheduled Cast Sub Plan (ICAR-SCSP) Grant on 06-08/ March 2020 at College of Agriculture, IGKV, Raipur (C.G.)
3.	Participated as a resource person in the Science Day Celebration 2020 Organized by Science Club, Govt. Digvijay Autonomous PG College, Rajnandgaon (C.G.) on 28 February 2020.
4.	Participated and delivered invited lecture on National Seminar on Recent Advances & Current Trends in Life Sciences organized by Department of Zoology and Botany, Govt. Dr. BSBA P.G. College, Dongargaon (C.G.), 13/02/2020
5.	Participated and delivered invited lecture on 02/12/2019 at Govt. DKPG College, Baloda Bazar (C.G.)
6.	Participated as a resource person in State level training workshop for the district coordinators and resource teachers held at Raipur on 20/08/2020 under National Children Science Congress Program.
7.	Participated as chairperson in the national seminar on women wellness organized by Shakti Raipur on 28-29 July 2018 at university institute of Pharmacy, Pt. R. S. U, Raipur.
8.	Participated as a evaluator of research paper at 33 rd M.P. Young scientist congress March 15-16, 2018.
9.	Participated as a chairperson in national seminar on nanotechnology to translational nanomedicine from march 15-17,2018
10.	Participated as a resource person in the science day celebration from 22-28 feb 2018 organized by Govt. P.G. College Rajnandgaon C.G.
11.	Certificate of appreciation for outstanding contribution in the field of biotechnology, 07-14, 2017
12.	Participated as a resource person in one week short term training program on bioprocess development, reactor design and analysis from 09-13 jan,2017
13.	Participated as a chairperson in world research journal congress from 26-28 June 2017.
14.	Participated as a chairperson in 19 th national conference of Indian aerobiological society 9-11 Dec 2016.
15.	Participated as a resource person in national seminar in present scenario in Phytomicrobial from 27-28 Jan 2017.
16.	Participated as a chairperson in national seminar on advances in environmental science and technology from Jan 23-24 2017.
17.	Participated as a chairperson in national seminar on quality enhancement in higher education from 7-8 Dec. 2015.

Foreign Visits

1. **Uban Rachathani University, Thailand** to attend International Conference (ICCE-2009).
2. **Chongqing University, China** to attending International Conference on Disaster Prevention Technology and Management (DPTM-2010) From 23rd to 25th October 2010. (Act as Chairperson in a Technical Session and Awarded of Best Paper).
3. **Malaysia** to attend 5th International Congress of Chemistry and Environment ICCE 2011. (Act as Chairperson in one technical session).
4. **University of Antwerp, Belgium** to attend 6th International Congress of Chemistry and Environment ICCE 2013 (Act as Chairperson in one technical session and Awarded Best paper).
5. **King Mongkut's University of Technology Thonburi, Thailand** to attend 2nd International World Research Journals Congress. June 26 to June 28, 2017 at Bangkok, Thailand. (Act as Chairperson in a Technical Session).

Research Projects

1. **“Studies on aerosol and airborne allergens in relation to meteorological factors”** sanctioned by Chhattisgarh Council of Science and Technology, Raipur.
2. **“Screening of Microbes for Bioethanol production from Mahua flower”**. UGC Major Research Project, UGC New Delhi, Rs. 7.14 Lakh (2011-14).
3. **“Production of Bioethanol from Deoiled rice bran by *Sacchromyces cerevisiae* MTCC 4780”**. Sponsored by Chhattisgarh Science and Technology, C.G. Raipur; Rs 5.00 Lakh, Duration 2014-2017.
4. **Bacterial bioreporters for detection of landmines vapors**, DRDO, New Delhi, Rs 32.87 Lakh (2018-21)
5. **Herbal Treatment of Rheumatoid Arthritis** , Pt. DDU Health and Medical University Raipur. Rs. 3.00 Lakh (2018-19)
6. **Documentation of wetlands of the Chhattisgarh State**, CG Govt. Raipur. Rs 3.25 Lakh (2019)
7. **Bioremediation and bioelectricity generation from effluent wastewater and kitchen waste in microbial fuel cell using indigenous bacterial strain(s)**, CGCOST, Raipur. Rs 5.00 Lakh (2019-21).

Ph. D. Awarded

SN	Name of Candidate	Title of PhD Scholar	Year	Remark
1.	Shriram Kunjam	“Studies of Aeromycoflora of Tribal Atmosphere at Panabaras region Rajnandgaon District (C.G.) ”	2007	Guide (01)
2.	Smt. Beulah Madhurima Lall	“Studies of Indoor and outdoor Aeromycoflora of Dr. Bhim Rao Ambedkar Hospital, Raipur ”	2008	Guide (02)
3.	Ku. Kallpana Patle	“Incidence of Airborne Fungal Spores at Raipur with special reference to Railway station”	2010	Guide (03)
4.	Abhijit Ray	“Studies on the influence of light in Poultry Birds”	2013	Co-guide
5.	Ku. Arunima Karkun	“Study of Diversification Degradative Potency and Genetic Makeup of some Microbes thriving in Mandeepkhol caves of Gandai, District Durg (C.G.), India”	2013	Co-guide
6.	Raju Mahobia	“Atmospheric Studies of Bioaerosoles of Navapara (Rajim), District-Raipur with special reference to Fungal Spores”	2013	Co-guide
7.	Smt. Shubhra Tiwri	“Bioethanol Production from Rice Bran (Waste Rice Material)”	2013	Guide (04)
8.	Pramod Kumar Mahish	“Biosorption of Lead by some Fungal species”	2014	Guide (05)
9.	Nagendra Kumar Chandravanshi	“Micropropagation of an Endangered Medicinal Plant Glory Lilly (<i>Gloriosa superba</i> L.)”	2014	Guide (06)
10.	Smt. Neha Behar	“ <i>In vitro</i> and <i>in silico</i> Approches for Micropropagation and Studies of Secondary Metabolite Content in <i>Curcuma cassia</i> Roxb.”	2014	Co-guide
11.	Ku. Veenu Joshi	“Molecular Characterization, Micropropagation and Conservation Studies of <i>Spilanthes acmella</i> (L.) Murray from Chhattisgarh Region”	2015	Guide (07)
12.	Sr. Shanthamma Joseph	“”Studies on the Aeromycoflora of Ambikapur city with special reference to seasonal variation”	2016	Guide (08)
13.	Smt. Veena Thakur	“Bacterial Production of Biohydrogen from Rice mill Effluents”	2017	Co-guide
14.	Smt. Shahla Khan	“Survey of Aeromycoflora and Related Allergic Diseases of Raipur, Chhattisgarh”	09-10-2017	Co-guide

15.	Esmil Beliya	“Bioethanol Production from Deoiled Rice Bran by <i>Zymomonas mobilis</i> MTCC 92 and <i>Pichia stipitis</i> NCIM 3497”	12-12-2017	Guide (09)
16.	Tikendra Kumar Verma	“Screening of fungal Species for Biosorption of Iron in industrial Effluents”	12-12-2017	Co-guide
17.	Samiksha Sharma	“Biosorption : An Ecofriendly Technique for Removal of Lead by Endophytic Fungi from Industrial area of Raipur, Chhattisgarh”	24-01-2018	Co-guide
18.	N. Shweta	“Domestication and Molecular Identification of Pesticide Resistant Soil Indigenous Bacteria”	30-01-2018	Co-guide
19.	Alka Kaushik	“Screening and Characterization of Electrogenic Bacteria involved in Bioelectricity Production Through Microbial Fuel Cell from Wastewaters”	24-02-2018	Guide (10)
20.	Jai Shankar Paul	“Isolation, Screening and Identification of Highly Efficient alfa-amylase Producing Bacteria from Vegetable Market and Determine the Optimum Condition for Higher”	24-02-2018	Co-guide
21.	Inderpal Kaur	“Selection of Hyperaccumulator Indigenous Tree Species for Dendroremediation of Lead in Chhattisgarh ”	15-02-2019	Guide (11)
22.	Reena Meshra	“Isolation and Identification of Electrogenic Bacterial Strain from Wastewater of Rice Industries for Bioelectricity Generation Using Microbial Fuel Cell Technology”	21-02-2019	Guide (12)
23.	Ankita Choudhary	“Isolation and Screening of Bacteria and optimization of Different Parameters for Bioethanol Production from <i>Shorea robusta</i> (Sal) seeds of Chhattisgarh ”	31-05-2019	Guide (13)
24.	Niharika Sinha	“Impact of School Timing on sleep Quality and Level of Alpha-Amylase and Acetylcholinesterase in Saliva among School Studies”	22-06-2019	Co-guide
25.	Mona Tandon	Isolation and characterization of bacterial strain from waste of rice bran industry for biohydrogen production with optimization of efficient parameters	30-10-2019	Co-guide
26.	Gyanmani Ekka	<i>In vitro</i> Approaches for Propagation and Secondary Metabolites Production of <i>Zanthoxylum armatum</i> DC.	15-03-2021	Guide (14)
27.	Ritu Kunjam	Aeromycoflora at the periphery of Raipur city	17-06-2022	Co-guide

List of Journals serving as reviewer

1. Process Biochemistry (Elsevier)
2. Industrial Crops & Products (Elsevier)
3. Biocatalyst & Agricultural Biotechnology (Elsevier)
4. Bioresource Technology Reports (Elsevier)
5. Biotechnology Report (Elsevier)
6. Applied Microbiology and Biotechnology (Springer)
7. National Academy Science Letters (Springer)
8. Plant Cell Tissue and Organ Culture (Springer)
9. Waste and Biomass Valorization (Springer)
10. Separation Science and Technology (Taylor & Francis Online)
11. Environmental Technology (Taylor & Francis Online)
12. Journal of Basic Microbiology (Wiley Online Library)
13. Indian Journal of Experimental Biology (NISCAIR)
14. Environmental Engineering Science (Mary Ann Liebert, Inc., Publishers)
15. Journal of Biotech Research
16. Journal of Microbiology Biotechnology Food Science [Publisher: Faculty of Biotechnology and Food Sciences (Slovak University of Agriculture in Nitra)]
17. Ciência e Agrotecnologia
18. International Journal of Poultry Science (Science Alert)
19. African Journal of Microbiology Research (Academic Journals)