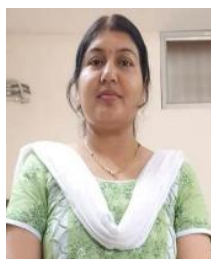


## Curriculum Vitae



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### Education:

1. Ph.D. Biotechnology (2013) Thesis title: Production of bioethanol from rice bran
2. M.Phil Biotechnology (2009) Secured 1<sup>st</sup> Rank in Merit
3. M.Sc. Biotechnology (2006) Secured 1<sup>st</sup> Rank in Merit
4. B.Sc. CBZ (2004) Secured 1<sup>st</sup> Rank in Merit

### Awards:

1. Recipient of Pt. Ravishankar Shukla University Gold Medal in M.Sc. Biotechnology-2006
2. Recipient of 8<sup>th</sup> Chhattisgarh Young Scientist Award (Biotechnology) 2010 Organized by Chhattisgarh Council of Science and Technology

### Member:

1. Joint Secretary of Alumni Association of Biotechnology, Amanaka Raipur (Reg. No. 29709)
2. Life member of Alumni Association of Biotechnology, Amanaka Raipur (Reg. No. 29709)
3. Life member of SHAKTI: A National Movement for Women (Reg. No. ER-294/04)
4. Life Member (MS/LM/711) of Microbiologist Society of India (Reg. No. MAHA/4814/SAT)

### Research Guidance: M.Sc. (Dissertation)

S.No.	Name	Year	Title
1.	Ms. Lipkia Verma	2020	Bioethanol production from rice straw.
2.	Ms. Durga Verma	2020	Comparative analysis for bio ethanol production from different rice Residues.
3.	Ms. Suraksha Thorani	2021	Bioethanol production from rice straw with <i>S. cerevisiae</i> .

4.	Ms. Apoorva Singh	2021	Antimicrobial activity of <i>Azadirachta indica</i> (Neem) leaf extract on gram positive and gram negative bacteria.
5.	Ms. Tanushree Mukharjee	2022	Comparative analysis of immobilized yeast on different matrices for bioethanol production.
6.	Ms. Soumya Pituri	2022	Antimicrobial activity of <i>Azadirachta indica</i> (Neem) leaf extract.
7.	Ms. Sakshi Verma	2022	Formulation of herbal soap by Giloy ( <i>Tinospora cordifolia</i> ) extract and its antibacterial activity
8.	Ms. Bharti Ramteke	2022	Evaluation of antimicrobial properties of some medicinal plants
9.	Ms. Pooja Sahu	2023	Bioconversion of vegetable waste into single cell protein production by Yeast
10.	Ms. Sapna Sarkar	2023	Bioethanol generation from vegetable waste: exploring nanoparticles and pretreatment strategies.
11.	Ms. Smriti Sonteke	2023	Biovalorization of rice husk for cellulase enzyme production and its applications

### List of Published Research Papers

1. Tiwari, K.L., Jadhav, S.K. and **Tiwari, S.** (2010) The effects of temperature variation in the bioethanol production process. *Bioprocessing Journal*. 9(1): 18-20.
2. Tiwari, K.L., Jadhav, S.K. and **Tiwari, S.** (2011) Antibacterial studies of cave water. *Deccan Current Science* 4: 237-240.
3. K.L. Tiwari, S.K. Jadhav and **S. Tiwari** (2011) Studies of bioethanol from some carbohydrate sources by Gram Positive Bacteria. *Journal of Sustainable Energy and Environment* 2: 141-145.
4. **Shubhra Tiwari**, S.K. Jadhav and K.L. Tiwari (2012) Production of Bioethanol from "Jatropha oil cake". *Researcher* 4(7):7-10.
5. Anshika Pandey, **Shubhra Tiwari**, K.L. Tiwari and S.K. Jadhav (2013) Bioconversion of lignocellulosic Azolla into bioethanol. *J. of applied Phytotechnology in Environmental Sanitation*. 2:59-64.
6. Esmil Beliya, **Shubhra Tiwari**, Shailesh Kumar Jadhav and Kishan Lal Tiwari (2013) De-oiled rice bran as a source of bioethanol. *Energy Exploration & Exploitation*. 31(5):771-782. (SCIE, IF 0.9)
7. **Shubhra Tiwari**, S.K. Jadhav, K. L. Tiwari and Esmil (2013) Comparative study of bioethanol production from deoiled and oiled rice bran. *Research Journal of Biotechnology*. 8(9): 10-12. (SCIE IF 0.29)
8. **Shubhra Tiwari**, S. K. Jadhav and K.L. Tiwari (2013) Comparative study of bioethanol production from different carbohydrate sources. *Researcher*. 5 (12) 219-221.

9. **Shubhra Tiwari**, S. K. Jadhav, Mayuri Sharma and K.L. Tiwari (2014) Fermentation of waste fruits for bioethanol production. *Asian Journal of Biological Sciences*. 7(1): 30-34. DOI: 10.3923/ajbs.3034. (**Thomson ISI**)
10. Anshika Pandey, **Shubhra Tiwari**, S. K. Jadhav and K.L. Tiwari (2014) Efficient microorganism for bioethanol production from lignocellulosic *Azolla*. *Research Journal of Environmental Sciences*. 8(6): 350-355. DOI:10.3923/rjes.2014.350.355.
11. **Tiwari S.**, Jadhav S.K., and Tiwari K.L. (2015) Bioethanol production from rice bran with optimization of parameters by *Bacillus cereus* strain McR -3. *Int. J. Environ. Sci. Technol.* 12, 3819–3826. DOI 10.1007/s13762-014-0746-1 (**SCI IF 3**)
12. Pandey Anshika, **Tiwari Shubhra**, Tiwari K.L. and Jadhav S.K. (2016) Relation between sugar consumption and bioethanol production potential in lignocellulosic biomass. *Research Journal of Biotechnology*. 11(1): 52-57. (**SCI Expanded, IF 0.29**)
13. Chhaya Malagar, **Shubhra Tiwari**, S.K. Jadhav and K.L. Tiwari (2016) Comparative studies of *Saccharomyces cerevisiae* MTCC 4780 and *Pichiakudriavzevii* for bioethanol production using Sal (Shorearobusta) seeds. *Journal of Biofuels*. 7(1): 9-13 (**NAAS rating 3.73**)
14. Choudhary Ankita, **Tiwari Shubhra**, Jadhav S.K. and Tiwari K.L. (2016) Bioethanol production from Shorearobusta (Sal) seeds using *Zymomonasmobilis* MTCC92. *Silpakorn University Science and Technology Journal*. 10(3):1-6.
15. **Tiwari S.**, Jadhav S.K., and Tiwari K.L. (2016) Effect of physical parameters on production of bioethanol by *Bacillus cereus* strain McR -3. *Research Journal of Chemistry and Environment*. 20 (11):15-20. (**SCOPUS IF 0.2**).
16. G. Sinha, **Tiwari S.** and Jadhav S.K. (2019) Simultaneous Saccharification and fermentation of rice residues and its comparative analysis for bioethanol production. *Defence Life Science Journal*. 4(3):158-162. (**SCOPUS IF 0.4**)
17. JS Paul, Esmil Beliya, **Shubhra Tiwari**, Karishma Patel, Nisha Gupta, S.K. Jadhav (2020) Production of biocatalyst alpha amylase from agro-waste rice bran by using *Bacillus tequilensis* TB5 and standardizing its production process. *Biocatalysis and Agricultural Biotechnology*. 26:101648. (**SCI IF 3.2**)

18. Gupta, N., Beliya, E., Paul, J.S., **Tiwari S.**, Kunjam, R. and Jadhav S.K. (2021) Molecular strategies to enhance stability and catalysis of extremophile-derived  $\alpha$ -amylase using computational biology. *Extremophiles*. 25, 221–233. (SCI IF 2.4)
19. Paul, J.S., Gupta, N., Beliya, E., **Tiwari S.**, and Jadhav S.K. (2021) Aspects and Recent Trends in Microbial  $\alpha$ -Amylase: a Review. *ApplBiochemBiotechnol*. 193, 2649–2698 (SCI IF 2.9)
20. AnkitaRathi, Nisha Gupta, VaniDhruw, EsmilBeliya, Shubhra Tiwari, Jai Shankar Paul, S.K.Jadhav (2022) Valorization of rice milled by-products (rice husk and de-oiled rice bran) into  $\alpha$ - amylase with its process optimization, partial purification and kinetic study. *Process Biochemistry* 120: 101-113. (SCI IF 3.7)
21. **Shubhra Tiwari**, EsmilBeliya, Monika Waswani, KhushbuKhawase, DristiVerma, NishaGupta, Jai Shankar Paul and Shailesh Kumar Jadhav (2022) Rice Husk: A Potent Lignocellulosic Biomass for Second Generation Bioethanol Production from *Klebsiellaoxytoca ATCC 13182*. *Waste and Biomass Valorization*. <https://doi.org/10.1007/s12649-022-01681-5>. (SCI IF: 3.702)
22. DristiVerma, Jai Shankar Paul, **Shubhra Tiwari** and S.K. Jadhav (2022) A Review on Role of Nanomaterialsin Bioconversion of Sustainable Fuel Bioethanol. *Waste and Biomass Valorization*. <https://doi.org/10.1007/s12649-022-01843-5>. (SCI IF: 3.702).

### Chapters in Book:

1. **Shubhra Tiwari**, SKJadhav, EsmilBeliya, Jaishankar Paul and GDSharma (2020) Ethnic Fermented Beverages and Foods of Chhattisgarh In Ethnic Fermented Foods and Beverages of India: Science History and Culture. ISBN 978-981-15-1485-2. Springer Nature, Singapore.
2. **Shubhra Tiwari**, SKJadhav, EsmilBeliya and GDSharma (2020) Fungal Bioengineering in Biodiesel Production. In Fungal Biotechnology and Bioengineering. Springer Nature, Singapore
3. **Shubhra Tiwari**, S.K.Jadhav and Ankita Choudhary Bioethanol production from Sal (*Shorea robusta*) seeds. p. 161 Chapter 21 Biotechnology and Traditional Knowledge 2015. ISBN: 978-81-7622-330-0.

**Declaration:** I hereby declare that all the information is correct and true best of my knowledge.

(Shubhra Tiwari)

June, 2023

