

Dr. Radhika Chandankere

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ACADEMIC QUALIFICATION

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| 2014 | Ph.D. Environmental Science and Engineering | University of Science and Technology Beijing, China | NA |
| 2010 | M.Tech Industrial Biotechnology | National Institute of Technology Surathkal (NIT), Karnataka, India | CGPA 7.6 |
| 2006 | B.E Biotechnology | VTU, Belagum, India | 78% |

ACADEMIC EXPERIENCES

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| 2020-Till Date | Assistant Professor | Department of Biotechnology | Sir Padampat Singhania University, Udaipur, India |
| Subject Taught: Environmental Ecotoxicology and Microbiology, Downstream Processing, Fermentation Technology, Environmental Remediation, Food Technology | | | |
| 2010-2011 | Lecturer | Department of Biotechnology | SIT Tumkur, India |
| Subject Taught: Environmental Biotechnology, Industrial Biotechnology | | | |

RESEARCH EXPERIENCE

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|---|-------|---|------------------------------------|
| 2011-2014 | Ph.D. | University of Science and Technology Beijing, China | Advisor: Prof. Yao Jun |
| Thesis: Efficient Indigenous Biosurfactant Producers Isolated from Petroleum Reservoir: Characterization and Feasibility Studies for Industrial Application | | | |
| 2019-2020 | PDF | Jiangsu University, China | Advisor : Prof. Qi Xianghui |
| Topic: Development of a probiotic strain as microbial cell factory for biosurfactant production and synergetic inhibitory effect on food-borne pathogens biofilm formation | | | |
| Funding Agency: Jiangsu Province Postdoctoral Fellowship | | | |
| 2017-2017 | PDF | Concordia University, Canada | Advisor : Prof. Catherine Mulligan |
| Topic: Bioremediation of oil-contaminated sediments/sediment using microbial biosurfactant and biochar. | | | |
| Funding Agency: NSERC's Collaborative Research and Training Experience (CREATE) program | | | |
| 2015 - 2016 | PDF | Indian Institute of Science (IISc), India | Advisor: Prof. Jayabaskaran. C |
| Topic: Biofabrication and structural characterization of silver nanoparticles produced by endophytic fungus isolated from Datura metel and its synergetic biological properties | | | |
| Funding Agency: UGC, India | | | |

AWARDS AND ACHIEVEMENTS

1. Best Researcher Award at International Conference for award winners on Engineering, Science and Medicine, held on 12-Nov-2021, Chennai, India, Organized by VDGOD Professional Association.
2. Best poster award in the International conferences on New Horizon in Biotechnology (NHBT)-2019 organized by CSIR-NIIST, Trivandrum, India being held on 20th-24th, November, 2019.
3. Awarded Dr. Kothari Postdoctoral fellowship 2015.
4. Awarded of MHRD-Chinese Government Scholarship (CSC) in 2011 for pursuing PhD.
5. Awarded Young Leader at Asia-Pacific Leadership Program-2013 being organized by UNEP-Tongji Institute for Environment and Sustainable Development, Shanghai, China.

RESEARCH INTEREST

Degradation of Petroleum Hydrocarbons; Biosurfactant and Bio-emulsifiers: Microbial Enhanced Oil Recovery (MEOR), Antibiofilm agents for Food and Biomedical Industries

PUBLICATIONS

1. Fokum E, Zabed HM, Ravikumar Y, Elshobary ME, **Radhika Chandankere**. Co-fermentation of glycerol and sugars by *Clostridium beijerinckii*: Enhancing the biosynthesis of 1, 3-propanediol. *Food Bioscience*. 2021, 41, 101028. (SCI, IF-4.24)
2. **Radhika Chandankere**, Jayabaskaran Chelliah, Kamalraj Subban et. al. Pleiotropic Functions and Biological Potentials of Silver Nanoparticles Synthesized by an Endophytic-Fungus. *Frontiers in Bioengineering and Biotechnology*. 2020, 8, 95. (SCI, IF-5.89).
3. **Radhika Chandankere**, Zabed Hussain, Xianghui Qi, Yuvaraj Kumar. Conversion of Agro-Industrial Wastes to Rhamnolipid by *Enterobacter* sp. UJS-RC and Its Role Against Biofilm Forming Foodborne Pathogen. *Journal of Agricultural and Food Chemistry*. 2020, 68, 15478. (SCI, IF-5.279).

4. W Li, Z Zhou, J Huang, G Zhang, FN Awad, **R Chandankere**, Q Guo, X Qi, Screening and Identification of Lactic Acid Bacteria with D-tagatose Production Capability. *Biotechnology Journal International*, 2019, 1-6.
5. Meinan Zhen, Xiamei Liu, Benru Song, **Radhika Chandankere**, Jungchun Tang. Biochar-mediated regulation of greenhouse gas emission and toxicity reduction in bioremediation of organophosphorus pesticide- contaminated soils. *Chinese Journal of Chemical Engineering*. 2018, 26, 2592. **(SCI, IF-3.17)**
6. **Radhika Chandankere**, Jun Y, Choi MMF, Masakorala K, Chan Y. An efficient biosurfactant producing and crude-oil emulsifying bacterium *Bacillus methylotrophicus* USTBa isolated from petroleum reservoir. *Biochem Engineering Journal* 2013; 74: 46–53. **(SCI, IF-3.978)**
7. **Radhika Chandankere**, Jun Yao, Minmin Cai, Kanaji Masakorala, Martin M. F. Choi, Properties and Characterization of biosurfactant in crude oil biodegradation by bacterium *Bacillus methylotrophicus* USTBa. *Fuel*, 2014, 122(1): 140–148. **(SCI, IF-6.6)**.
8. **Radhika Chandankere**, Jun Yao, Kanaji Masakorala, Minmin Cai, Martin M. F. Choi, Enhancing biosurfactant production by *Bacillus amyloliquefaciens* USTBb: Optimization using response surface methodology (RSM) and characterisation studies. *Int.J.Curr.Microbiol.App.Sci* 2014, 3, 66-80. **(IF-1.5)**
9. **Radhika Chandankere**, Jun Yao, Kanaji Masakorala, Martin M. F. Choi Production and characterization of biosurfactant from indigenous bacterium *Bacillus amyloliquefaciens* USTBb: Feasibility in Microbial Enhanced Oil Recovery. Proceedings of International Conference on Clean Green and Sustainable Technology in Biotechnology and Chemical Engineering publication. *Journal of Research & Reviews : A Journal of Biotechnology*. 2014, 4, 42-55.
10. Kanaji Masakorala, Jun Yao, **Radhika Chandankere**, Minmin Cai, Haiyan Yuan, Huilun Chen, Isolation and characterization of a novel phenanthrene (PHE) degrading strain *Psuedomonas* sp. USTB-RU from petroleum contaminated soil. *Journal of Hazardous Materials*. 2013, 263, 49. **(SCI, IF-7.8)**.
11. Kanaji Masakorala, Jun Yao, Huan Guo, Jingwei Wang, **Radhika Chandankere**, Minmin Cai, Haijun A combined approach of physic-chemical and biological methods for characterization of petroleum hydrocarbon contaminated soil. *Environmental Science and Pollution Research*. **(SCI, IF-2.7)**
12. Kanaji Masakorala, **Radhika Chandankere**, Huan Guo, Jingwei Wang, Minmin Cai, Haijun, Liu, Martin M. F. Choi. Phytotoxicity of long-term total petroleum hydrocarbon contaminated soil–a comparative and combined approach. *Water air and soil pollution*. **(SCI, IF-1.7)**
13. Kanaji Masakorala, **Radhika Chandankere**, Haiyan Yuan, Haiyan Liu, Effect of Petroleum Hydrocarbon Contaminated Soil on Germination Metabolism and Early Growth of Green gram, *Vigna radiate* L. *Bulletin of Environmental contamination and Toxicology*. **(SCI, IF-1.2)**

REFERENCES

1. Prof. Xianghui Qi, Professor, Department of Food and Biological Science, Jiangsu University, China (qhx@ujs.edu.cn)
2. Prof. Yao Jun, Professor, Department of Geoscience, China University of Geoscience, Beijing-China (yaojun@cugb.edu.cn).
3. Prof. Yogesh C. Sharma, Professor, Department of Chemistry, IIT-BHU, Varanasi, India (ysharma.apc@iitbhu.ac.in)
4. Prof. Jayabaskaran C, Department of Biochemistry, IISc, Bengaluru (cjb@iisc.ac.in)

PERSONAL DETAILS

Date of birth: 03/05/1985
Nationality: Indian
Marital status: Married
Languages known: English, Hindi, Kannada, Basic Chinese
Passport No: P4699203