

Name of Faculty Dr BISHWAMBHAR MISHRA  
 Designation Assistant Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 02-06-2019  
 E-mail bishwambhar\_biotech@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	M. Tech-Integrated-Doctor of Philosophy (Biotechnology)	Awarded
UG	B. Tech. (Biotechnology)	First Class

**Work Experience**

Teaching 06 years  
 Research 04 years  
 Industry --  
 Others --

Area of Specialization Microbial Technology and Industrial Biotechnology

Professional Memberships --

**Responsibilities held at Institution Level**

**Responsibilities held at Department Level**

1. Invited Member - Board of Studies
2. Research Coordinator for the Academic year 2019-20
3. Member, Program Assessment Committee (PAC)
4. Member, Course Expert Group (CEG)
5. Member, Program Content Committee (PCC)

**Research Guidance**

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**Awards Received**

1. Received "Best Poster Award" in International conference on Bio-Innovations for Environmental and Health Sustainable Developments (BEHSD-2018), CSIR-Indian Institute of Toxicology Research (CSIR-IITR), Lucknow, India; November 27-28, 2018
2. Received "Best Paper Award-2018" in 2nd International Conference on Research Trends in Engineering, Applied Science and Management (ICRTESM-2018) on 23rd September 2018 at Osmania University, Hyderabad
3. Received "Best Teacher Award" in the Sreenidhi Institute of Science and Technology in the Academic Year of 2014-15.
4. Received National Award, "Gandhian Young Technological Innovation Award-2013" organized by Techpedia and SRISTHI at IIM-A.
5. Received "Research Awards-2012" from VIT University for contribution to research through publication in peer reviewed journals.
6. Got 3<sup>rd</sup> Prize in Paper presentation in CAMTech-India Media Hackathon on Nov 26, 2012, VIT University.

**Courses Handled at Under Graduate / Post Graduate Level.**

Microbiology, Instrumental Method in Biotechnology, Industrial and Environmental Biotechnology, Environmental Studies, Food Science and Technology, Research and Methodology, Downstream Processing, Culture Values Ethics and IPR

**No. of Papers Published**

National Journals – 1 International Journals – 9  
 National Conference – Nil International Conference – 5

**Projects Carried out**

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**Patents**

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**Technology Transfer**

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**Invited Speaker**

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No. of Books/Chapter Published with details

1. Sunita Varjani, Bishwambhar Mishra, Rajasri Yadavalli, Xuan-Thanh Bui, Mohammad J. Taherzadeh, Dinesh Chand Agrawal, Siming You, Jo-Shu Chang (2020). Petroleum waste biorefinery: A way towards a circular economy in : (Eds. Thallada Bhaskar et al.) *Waste Biorefinery*, Volume III, Elsevier, ISBN: 9780128218792 (Accepted)
2. Bishwambhar Mishra, Rajasri Yadavalli, Y. Vineetha, C. Nagendranatha Reddy (2020). Recent advancements and challenges of nanomaterials application in biofuel production in "Nanomaterials Application in Biofuels and Bioenergy Production Systems" Elsevier. R. Praveen Kumar et al. (eds.) (Accepted)
3. Bishwambhar Mishra, Monali Parida, Bhushan Vishal (2019) Microbial Bank Modernization in Bioengineering, Remodelling cellular architecture to industrial design: Shampa Sen (Ed), Taylor and Francis, CRC Press, United Kingdom (Accepted)
4. Bishwambhar Mishra, Sunita Varjani and G. Karthikeya Srinivasa Varma (2018) Agro-Industrial By-Products in the Synthesis of Food Grade Microbial Pigments: An Eco-Friendly Alternative. In: B. Parameswaran et al. (eds.), *Green Bio-processes*, 1st edn. Springer Nature, Singapore Pte Ltd , ISBN: 978-9811332623
5. Bishwambhar Mishra (2018) Machine Learning Approach to Overcome The Challenges In Theranostics: A Review. In: Shampa Sen (ed) *Machine Learning and IoT: A Biological Perspective*, 1<sup>st</sup> Edn. Taylor and Francis, CRC Press, United Kingdom (ISBN: 9781351029940)
6. Bishwambhar Mishra, Deveeka Zamare and A. Manikanta (2018) Selection and Utilization of Agro-industrial waste for Biosynthesis and Hyper-production of Pullulan ; A Review. In: Sunita J. Varjani (ed) *Biosynthetic Technology and Environmental Challenges*, 1<sup>st</sup> edn. Springer Nature, Singapore Pte Ltd, pp 89-103. DOI:10.1007/978-981-10-7434-9

Details of Short-Term Training Programs / Faculty Development Programs / Seminars / Workshops/ Other Trainings (Attended and/or Organized).

1. Attended one Week online Faculty Development Program on "Waste to Bioenergy" organized by Sharda University, NCR and Maharashtra Institute of Technology, Aurangabad during 28 June to 4 July, 2020
2. Organized a One Week webinar cum FDP Series on "Current Progress and Future Prospects of Biotechnology" organized by Department of Biotechnology, Chaitanya Bharathi Institute of Technology (A), Hyderabad in association with Andhra Pradesh Akademi of Sciences during 8-13 June 2020
3. Attended Indo-UK Virtual Conference on 'Current Innovations and the Future of Therapeutic Developments' CIFTD-2020 at Vellore Institute of Technology (VIT), Vellore, India and Swansea University, United Kingdom during 1st-3rd June, 2020
4. Attended one week Online faculty Development Program on "Outcome Based Education (OBE) and NBA Accreditation Process (UG) organized by Chaitanya Bharathi Institute of Technology (A), Hyderabad from 28.05.2020 to 01.06.2020
5. Attended Five Day national Level Online Faculty Development Program on "Artificial Intelligence" organized by Department of CSE, IT and MCA in collaboration with Brain-O-Vision India Pvt. Ltd. During 22-26 May 2020
6. Attended International Conference on "Advances in bioprocessing of agri-food resources" organized by CSIR-Central Food Technological Research Institute (CFTRI); Association of Food Scientists and Technologists (India); DRDO-Defence Food Research Laboratory (DFRL), December 14, 2019 – December 16, 2019.
7. Co-Chaired the session in International Conference on Biotechnology and Bioengineering Trends-2017 on 25<sup>th</sup> March, 2017 at JNTU, Hyderabad.

#### International/National Journals from 2017

1. Bishwambhar Mishra, Sunita Varjani, Dinesh Chand Agrawal, Sanjeeb Kumar Mandal, Huu Hao Ngo, Mohammad J. Taherzadeh, Jo-Shu Chang, Siming You, Wenshan Guo (2020) Engineering biocatalytic material for the remediation of pollutants: A comprehensive review, *Environmental Technology & Innovation*, 101063, <https://doi.org/10.1016/j.eti.2020.101063> ( In Press )
2. Bishwambhar Mishra, Sunita Varjani, Ipshita Pradhan, Nakkeeran Ekambaram, Jose A. Teixeira, Huu Hao Ngo, Wenshan Guo (2020) Insights into Interdisciplinary Approaches for Bioremediation of Organic Pollutants: Innovations, Challenges and Perspectives, *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* <https://doi.org/10.1007/s40011-020-01187-x> (Accepted)

3. Bishwambhar Mishra, Sunita Varjani, Gopalakrishnan Kumar, Mukesh Kumar Awasthi, Sanjeev Kumar Awasthi, Raveendran Sindhu, Parameswaran Binod, Eldon R Rene and Zengqiang Zhang (2020) Microbial approaches for remediation of pollutants: Innovations, future outlook, and challenges. Energy & Environment. <https://doi.org/10.1177/0958305X19896781>
4. Bishwambhar Mishra, Sunita Varjani (2019) Evaluation of pullulan production by a newly isolated *Micrococcus luteus*, Indian Journal of Experimental Biology , Vol. 57, pp.813-820
5. Bishwambhar Mishra, Sunita Varjani, Gayathri Priya Iragavarapu, Huu Hao Ngo, Wenshan Guo, Bhushan Vishal (2019) Microbial fingerprinting of potential biodegrading organisms, Current Pollution Reports, <https://doi.org/10.1007/s40726-019-00116-5>
6. Narjis Fathima Mirza, Snehasri Motamarry, Preetha Bhadra and Bishwambhar Mishra (2018) Antifungal peptides: Biosynthesis, production and applications. Biosci. Biotech. Res. Comm. 11(3): 376-386
7. Deveeka Zamare and Bishwambhar Mishra (2018) Enhanced antimicrobial activity of probiotics through selenium nanoparticles enrichment against gastrointestinal pathogens. Int J Pharm Sci Res 9(2): 1000-08.doi: 10.13040/IJPSR.0975-8232.9(2).1000-08 (SCOPUS, ESCI).
8. Sama Vinoshna , Manikanta Akula and Bishwambhar Mishra (2017) In vitro Antioxidant Efficacy of EPS obtained from *Micrococcus luteus* SNIST- CM 02: A Brief Study . Journal of Microbiology Biotechnology and Food Sciences . doi: 10.15414/jmbfs.2017.6.5.1199-1202 (SCOPUS).

#### **International/ National Conferences from 2017**

1. Bishwambhar Mishra, Sanjeeb Mandal, Bhushan Vishal (2019) “ Hyper-production of Pullulan by *Micrococcus leuteus* cultivated on the mixture of potato hydrolysate and sucrose” in “Bioprocessing India Conference 2019, pp.111.
2. Bishwambhar Mishra, Sunita Variani (2018) “Optimization of Fermentation condition for pullulan production by a new isolate of *Micrococcus luteus*” International conference on Bio-Innovations for Environmental and Health Sustainable Developments (BEHSD-2018), pp. 46.
3. Monali Parida, Victor Pradhan, Preetha Bhadra, Bishwambhar Mishra (2018) “A Noble Process of Production of Bio Plastic (Degradable) From Waste Plastic (Non- Degradable)” in 2nd International Conference on Research Trends in Engineering, Applied Science and Management (ICRTESM-2018) pp.255-258
4. Sama Vinoshna, A. Manikanta, Bishwambhar Mishra (2017) “ In Vitro Antioxidant Effect Of Carbohydrate Based Polymer Obtained from *Micrococcus luteus* SNIST- CM 02” in International Conference on Biotechnology and Bioengineering Trends-2017 (ICBBT-17), pp. 269
5. Bishwambhar Mishra (2017) Major Problems Addressed in Pullulan Production; A Review. Advances in Biotechnology and Microbiology DOI:10.19080/AIBM.2017.06.555696