

Dr. Ranjana Bhati
Assistant Professor
Department of Microbiology
Bundelkhand University
Jhansi
E-Mail: ranjana.iitkgp@gmail.com
Mobile no. 9453039734

ACADEMIC CREDENTIALS

2012	Ph.D. (Algae Biotechnology) from Indian Institute of Technology Kharagpur, India.
2006	M.Sc. Applied Microbiology and Biotechnology from Banasthali Vidyapith, Rajasthan, India. Secured 73.5% with 1 st Class.
2004	B.Sc. (Hons.) Biotechnology from Bundelkhand University, Jhansi, India. Secured 82.1% with 1 st Class.
2001	XII from C.B.S.E. Board, Secured 78.2% with 1 st Division.
1999	X from C.B.S.E. Board, Secured 82.2% with 1 st Division.

POSTDOCTORAL EXPERIENCE

Dr. D. S. Kothari Postdoctoral Fellow (UGC) at School of Life Science, Jawaharlal Nehru University, Delhi
(16/07/15-15/0716)

AWARDS AND HONOURS

Dr. D.S. Kothari Postdoctoral Fellowship (UGC, India)
Junior Research Fellowship (CSIR, India)
Senior Research Fellowship (CSIR, India)
Graduate Aptitude Test in Engineering (GATE, Life Science)

AREA OF INTEREST

- ☞ Algal Biotechnology
- ☞ Biofuels and Biopolymers
- ☞ Applied and Environmental Microbiology

Membership of Professional Bodies

- ☞ Life Member, Association of Microbiologists of India (AMI) 4190/2015.

Experience

- ☞ Department of Microbiology, Bundelkhand University, Jhansi, U.P. , Continued from 02/01/2012
- ☞ Dr. D. S. Kothari Postdoctoral Fellow (UGC) at School of Life Science, Jawaharlal Nehru University, Delhi(16/07/15-15/0716)
- ☞ Visiting faculty: Rani Lakshmi Bai Central Agricultural University (RLB CAU), Jhansi
- ☞ Member of Board of Studies (BOS) 2014-16, J.C Bose Institute of Life Sciences, Department of Microbiology, Bundelkhand University Jhansi, U.P. India.

CONFERENCE ORGANIZED

- ☞ Co-Joint Secretary in National Conference on “RECENT TRENDS IN APPLIED MICROBIOLOGY, HUMAN HEALTH & ENVIRONMENT” March 27-28, 2015 at Bundelkhand University, Jhansi (U.P).

PUBLICATIONS (IN REFERRED INTERNATIONAL JOURNALS)

- ☞ **Ranjana Bhati**, Shilalipi Samantaray, Laxuman Sharma, Nirupama Mallick (2010) Poly- β -hydroxybutyrate accumulation in cyanobacteria under photoautotrophy. *Biotechnology Journal* 5, 1181-1185 (Impact factor: 3.44).
- ☞ Indu Singh Sankhla, **Ranjana Bhati**, Akhilesh Kumar Singh, Nirupama Mallick (2010) Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) co-polymer production from a local isolate, *Brevibacillus invocatus* MTCC 9039. *Bioresource Technology* 101, 1947-1953 (Impact factor: 4.75).
- ☞ **Ranjana Bhati**, Nirupama Mallick (2012) Production and characterization of poly(3-hydroxybutyrate-co-3-hydroxyvalerate) co-polymer by a N_2 -fixing cyanobacterium, *Nostoc muscorum* Agardh. *Journal of Chemical Technology & Biotechnology* 87, 505-512 (Impact factor: 2.50).
- ☞ Akhilesh Kumar Singh, **Ranjana Bhati**, Shilalipi Samantaray, Nirupama Mallick (2013) *Pseudomonas aeruginosa* MTCC 7925: Producer of a Novel SCL-LCLPHA Co-Polymer. *Current Biotechnology* 2, 81-88
- ☞ **Ranjana Bhati**, Nirupama Mallick (2015) Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) copolymer production by the diazotrophic cyanobacterium *Nostoc muscorum* Agardh: process optimization and polymer characterization. *Algal Research* 7, 78-85 (Impact factor: 4.09).
- ☞ **Ranjana Bhati**, Nirupama Mallick (2015) Carbon dioxide and poultry waste utilization for polyhydroxyalkanoates production by *Nostoc muscorum* Agardh. *Journal of Applied Phycology* DOI 10.1007/s10811-015-0573-x (Impact factor: 2.49).
- ☞ Akhilesh Kumar Singh, **Ranjana Bhati**, Nirupama Mallick (2015) *Pseudomonas Aeruginosa* MTCC 7925 as a Biofactory for Production of the Novel SCL-LCL-PHA Thermoplastic from Non-Edible Oils. *Current Biotechnology* (Accepted).

INTERNATIONAL CONFERENCES

- ☞ Shilalipi Samantaray, **Ranjana Bhati**, Laxuman Sharma, Jitendra Kumar Nayak, Nirupama Mallick Production of PHB polymer from N_2 -fixing cyanobacteria. International Conference on Food Security and Environmental Sustainability, IIT Kharagpur, December 17-19, 2009.
- ☞ **Ranjana Bhati**, Nirupama Mallick Biosynthesis and Characterization of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) co-polymer from a N_2 -Fixing cyanobacterium, *Nostoc muscorum* Agardh. Fourth International Conference on Plants and Environmental Pollution, International Society of Environmental Botanists and National Botanical Research Institute, Lucknow, India, December 8-11, 2010 p. 180.
- ☞ **Ranjana Bhati**, Nirupama Mallick Utilization of cyanobacteria for bioplastics production. International Workshop on Algae Technology, Hydrogen Production and Use of Algae Biomass, Kolkata, India, October 17-18, 2011 p. 43.
- ☞ **Ranjana Bhati**, Nirupama Mallick Green plastics production by a nitrogen fixing cyanobacterium *Nostoc muscorum* Agardh. Global Climate change and Biodiversity conservation World Congress for Man and Nature, Gurukul Kangri Vishwavidyalaya, Haridwar, India, November 11-13, 2011 p. 279.
- ☞ **Ranjana Bhati**, Nirupama Mallick Screening of cultural parameters for accumulation of P(3HB-co-3HV) co-polymer in *Nostoc muscorum* Agardh. International Conference on Biotechnology: Emerging trends, Department of Biotechnology, Chaudhary Devi Lal University, Sirsa, Haryana, India, September 18-20, 2012 p.80.
- ☞ **Ranjana Bhati**, Nirupama Mallick Polyhydroxyalkanoates from cyanobacteria-A promising eco-friendly alternative for conventional plastics. National Conference on Energy, environment & Biotechnology research Department of Biotechnology, Mewar institute of Management, Vasundhara, Ghaziabad, Uttar Pradesh, India, October 5-6, 2013 p. 320.

- ☞ **Ranjana Bhati**, Nirupama Mallick Bioremediation of Poultry waste coupled with biodegradable plastic production. National Conference on Recent Trends in Applied Microbiology, Human Health & Environment. Department of Microbiology, Bundelkhand University, Jhansi, Uttar pradesh India March 27-28, 2015.

BOOK CHAPTER

- ☞ Bhabatarini Panda, Rakesh verma, **Ranjana Bhati**, Shilalipi Samantaray and Nirupama Mallick Prospective to Produce Polyhydroxyalkanoic Acids from Cyanobacteria, in Polymer Synthesis, Ed. by Kowsari, E., NOVA Publishers, New York, 2011.
- ☞ Shilalipi Samantaray, **Ranjana Bhati**, Nirupama Mallick Cyanobacterial polyhydroxyalkanoates: An alternative source of plastic, in Cyanobacteria: An Economic Perspective, Ed. by Sharma, N. K., Rai, A. K. and Stal, L. J., John Wiley and Sons Limited, UK, 2014. John Wiley & Sons, Ltd, doi: 10.1002/9781118402238.ch14

WORKSHOPS/ TRAININGS

- ☞ Training - cum – Workshop on “Anti Plagiarism Softwares Turnitin and iTenticate (Shodhganga)” organized by Bundelkhand University, Jhansi, UP, India December 6, 2014.
- ☞ “Faculty Development Programme, (FDP)” organized by Internal Quality Assurance Cell at Bundelkhand University, Jhansi, India September 1-7, 2014.