




Gangadhar Meher University, Sambalpur (Faculty Profile)

Name	Dr. Santosh Kumar Sethi			Photograph 
Designation	Assistant Professor & Head			
School	Biotechnology			
Address (Office)	Department of Biotechnology, G.M University, Amruta Vihar, Sambalpur			
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ORCID ID	0000-0003-0197-0570			
Researcher ID	AAX-9021-2020			
SCOPUS ID	57193690689			
PubMed ID				
Qualifications				
Degree	Institution	Year	Subject Details	
B.Sc.	Berhampur University	2002	Zoology (Hons.), Chemistry, Botany, Environmental Science, English, Oriya	
M.Sc.	Utkal University	2004	Biotechnology	
Ph.D.	Utkal University	2011	Biotechnology	
Post Doc. (ICAR)	National Rice Research Institute	01-03-2011 to 30-06-2014	Microbiology, Climate Change	
Post Doc. (UGC)	National Rice Research Institute	01-07-2014 to 31-10-2019	Biotechnology	
Areas of Interest/ Specialization:				
Bioprospecting of diazotrophs and cyanobacteria Genomics and Proteomics of PGPRs under stressed environments Biofertilizers & Biopesticides formulations for sustainable agriculture Mitigation potential of GHGs (CH ₄ , N ₂ O, CO ₂) from rice ecosystem				
Teaching/Research Experience				
Organization/Institution	Designation	Duration	Role	
Department of Biotechnology, Gangadhar Meher University	Assistant Professor	02-03-2020 to contd.	Teaching & Research	
Department of Biotechnology, Kalinga University, Raipur	Associate Professor	02-11-2019 to 29-02-2020	Teaching	
Institute of Management and Advanced Global Excellence (IMAGE)	Lecturer	01-11-2004-31-07-2006	Teaching	
P.G. Dept. of Biotechnology, Utkal University	Guest Faculty	2007-2010	Teaching & Research	
Awards and Honors (Top Five only)				

- Awarded with **UGC-National Post-Doctoral Fellowship** in Biotechnology (2013-14) funded by UGC, Govt. of India
- Awarded with **UGC-National JRF&SRF** in Biotechnology, (2006-07) funded by UGC, Govt. of India
- Awarded with **CSIR-Research Associateship** (2013-14) in Nanobiotechnology Funded by CSIR, Govt. of India, for Post Doctoral Research
- Awarded with **ICAR-Research Associateship** (2010-11) in Climate Change & Microbiology Funded by ICAR, Govt. of India for Post Doctoral Research at National Rice Research Institute (ICAR), India

International and National Collaboration/Consultancy (Top Five only)

1. **Dr. Prabhu B. Patil, Senior Principal Scientist, Institute of Microbial Technology (IMTECH), Chandigarh**
2. **Dr. Augustine Okpani Oko, Senior Assistant Professor, Department of Biotechnology, Ebonyi State University, Abakaliki, Nigeria**
3. **Dr. Neelabh Srivastava, Director, Samadhaan Life Sciences, Lucknow**

Extra-mural Projects (Give Details)

1. OURIIP Govt. of Odisha Sanctioned Major Research Project Sanctioned Letter No-358/135/OSHEC Dated 31/03/2022. (funded by Odisha State Higher Education Council)
2. World Bank Funded Minor Research Project under the world bank. Sanctioned letter No-759/GMU Dated 19/02/2002.

M.Phil. & Ph. D. Guidance

1. **Mr. Sanjeet Kumar (2020)-Ph.D. (contd.)**
2. **Mr. Sangram Padhan (2021)-M.Phil**

Best Peer/Review Publications (Selected)

1. Sanjeet Kumar, Kanika Bansal, **Santosh Kumar Sethi*** (2022). Comparative genomics analysis of genus *Leuconostoc* resolves its taxonomy and elucidates its biotechnological importance. *Food Microbiology*, 106:104039 ISSN: 0740-0020
2. Sanjeet Kumar and **Santosh Kumar Sethi*** (2022). Genome-based reclassification of *Streptococcus ursoris* as a later heterotypic synonym of *Streptococcus ratti*. *Archives of Microbiology*, 204(7): 1-6. <https://doi.org/10.1007/s00203-022-03012-7>
3. Sanjeet Kumar, Kanika Bansal, **Santosh Kumar Sethi*** (2022). Reclassification of *Streptococcus ilei* as a later heterotypic synonym of *Streptococcus koreensis* based on whole-genome sequence analysis. *Archives of Microbiology*, 204(7): 1-5. <https://doi.org/10.1007/s00203-022-02979-7>
4. L.Kandha, R Kumar, **Santosh Kumar Sethi**, B.K. Bindhani (2021). Chitosan enhances growth and survival rate of invitro-cultured plantlets of Banana cultivar “Grand Naine” *Journal of Crop Improvement*, 35(6): 848-865. ISSN: 1542-7528.
5. A. Kumar, R. A. Banjara, **Santosh Kumar Sethi**, A. Ekka, J. Dutta (2021). Biosensor: New trends in Environmental Pollutants Monitoring and Analysis. In: *Multidimensional Approaches to impacts of Changing Environment on Human Health* (Eds. J. Dutta, S. Goswami and A. Mitra). CRC Press, Taylor & Francis group, pp-403-421. Chapter-23, ISBN: 9780367558499.
6. Lashmi Singh and **Santosh Kumar Sethi*** (2020). Stress Tolerance Effect of Three Different Sub-Aerial Cyanobacteria sp. Isolated from Exteriors of Buildings under Adverse Environmental Conditions. *Journal of Pure and Applied Microbiology*, 14(4):2729-2743.
7. **Santosh Kumar Sethi*** (2020). Characterization and efficacy of indigenous *Azotobacter* sp. Isolated from different habitats for their nitrogen fixing ability and growth of rice. *Research Journal of Biotechnology*, 15 (12):113-119. ISSN: 0973-6263 (print) 2278-4535 (Online)
8. S. Mohanty, C.K. Swain, R. Tripathi, **S.K. Sethi**, P.C. Dalai, P. Bhattacharya, A. Kumar, R. Tripathi, M. Sahid, B.B. Panda, U. Kumar, B. Lal, P. Gautam, S. Munda, A. K. Nayak (2018). Nitrate leaching, nitrous oxide emission and N use efficiency of aerobic rice under different N application strategy. *Archives of Agronomy and Soil Science*, 64 (4): 465-479. ISSN: 0365-0340 (Print) 1476-3567 (Online).

Paper Presentation in Major Conferences (Up to 5)

1. **Invited as Keynote Speaker** at International conference on Humanities, Science and Technology organized by Sant Gahira Guru University, Sarguja, Ambikapur, Chattishgarh, Dated 21-23 September, 2022 and presented my Research work.
2. **Invited as Keynote Speaker** at National Webinar on Industrial Biotechnology organized by Kalinga University, Raipur, Chattishgarh, Dated 30th October, 2021 and presented my Research work.
3. National Conference on MICON, 2022 on Advances in Microbiology, organized by Yenepoya Research Centre, Yenepoya, Mangalore held on 02-02-2022 and presented the Research work.
4. International Conference (BioSangam) on Emerging Trends in Biotechnology, organized by Department of Biotechnology, NIT, Allahabad held on 10-03-2022 to 12-03-2022 and presented the Research work.
5. International webinar on Biotechnological Innovations in 21st Century held on 19-20th March, 2021. Organized by

MSCBD University (NOU University), Baripada, odisha and participated.

6. International symposium on Bioinformatic and Artificial Intelligence in Covid-19 era and beyond held on November 24-25, 2020. Organized by Centre for Computational Biology and Bioinformatics, Amity Institute of Biotechnology, Amity University, Uttar Pradesh

Patents (if any)

Filed: (), Accepted: ()

Events (Seminar/Symposium/Webinar/Workshop/FDP/Conference etc.) organized in capacity of convener

1. **Organized as a Convener** of National Webinar on Advances in Biotechnology for sustainable Developments. Date & Time: | 12th September 2020
2. **Organized as a Convener** National Webinar on Emerging trends in Health and Disease. Date & Time: | 20th April 2021,

Memberships of Professional Bodies/Societies (Up to 5)

- 1 Life member, Association of Microbiologist of India (AMI) (No-2251-2008)
- 2 Life Member, Society of Biotechnology and Bioinformatics (SBB) (No-45, Dt. 01-11-2016)
- 3 Life Member, Seaweed Research and Utilization Association (SRUA), India
- 4 Life Members, Applied Zoologist Research Association (AZRA), India
- 5 Member in the Reviewer Board of the Indian Journal of Microbiology Research
- 6 Member in the Reviewer Board of the African Journal of Biotechnology & African Journal of Microbiology Research
7. Member in the Reviewer Board of the Indian Agricultural Research Journal Association, Newdelhi

Other Details (Academic/Research related)

1. ICAR Niche Area of Excellence sponsored 21 days Refresher and Training on “*Utilization of Microbial and Plant Genomic Resources for Plant Disease Management*” February 5th to February 25th, 2015. at Department of Biotechnology, University of Agricultural Sciences, Dharwad, Karnataka, India
2. ICAR sponsored 10 days Short course on *Advances in Gene Identification and Marker Developments* held from 01-10th October, 2012 at National Research Centre for Banana (ICAR), Trichy, Tamilnadu, India
3. International workshop on *rRNA sequencing* held from 14th to 17th December 2010 on 51st AMI (Association of microbiologist of India) at BIT, Mesra, Ranchi, India.
4. National Workshop-cum-training programme on *Electron Microscopy: “Basics and Application in Biological and Material Sciences”* held from 22nd November to 25th November 2009 at Department of Instrumentation Science Jadavpur University, Kolkata, India
5. Orientation training on “*Biofertilizer (BGA): production technology & quality control*” organized by the Directorate of Agriculture & Food production, Orissa, Bhubaneswar in collaboration with P.G. Deptt. Of Biotechnology, Utkal University on 7th & 8th February 2009.
6. Workshop-cum-training programme on *Confocal Microscopy: Basics and Applications* held from 2nd December to 4th December 2008 at Institute of Life Sciences, Bhubaneswar
7. Workshop-cum-training programme on *BGA and Azolla Biofertilizer* held from 23rd to 29th February 2008 at the Indian Agricultural Research Institute, New Delhi
8. Workshop-cum-training on *Bacterial Biofertilizer* held from 30-12-2007 to 31-12-2007 at village: Maniakati (Extension laboratory of DBT sponsored project, Dept. of Biotechnology, Utkal University) Block- Surada, Dist: Ganjam (Orissa) in collaboration with P.G. Deptt. Biotechnology, Utkal University.
9. 2020 (January - April): Successfully completed NPTEL 12-week Online Certification course on “Human genetics and Biotechnology” (IIT Madras)