




## Gangadhar Meher University, Amruta Vihar, Sambalpur (Faculty Profile)

Name	Dr. Santosh Kumar Sethi			Photograph
Designation	Assistant Professor & Head			
School	Biotechnology			
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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 (CH4, N2O, CO2) from rice ecosystem (Climate Resilience)				
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 Exellence (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				

<ul style="list-style-type: none"> <li>Awarded with <b>UGC-National Post Doctoral Fellowship</b> in Microbial Biotechnology (2013-14) funded by UGC, Govt. of India</li> <li>Awarded with <b>UGC-National JRF&amp;SRF</b> in Biotechnology, (2006-07) funded by UGC, Govt. of India</li> <li>Awarded with <b>CSIR-Research Associateship</b> (2013-14) Funded by CSIR, Govt. of India, for Post Doctoral Research</li> <li>Awarded with <b>ICAR-Research Associateship</b> (2010-11) Funded by ICAR, Govt. of India for Post Doctoral Research at National Rice Research Institute (ICAR), India</li> </ul>
<b>International Collaboration/Consultancy</b>
<ol style="list-style-type: none"> <li><b>Dr. Anna Mårtensson, Professor, Biological Nitrogen Fixation Laboratory, Department of Soil and Environment, Swedish University of Agricultural Sciences, Uppsala, Sweden</b></li> <li><b>Dr. Augustine Okpani Oko, Senior Assistant Professor, Department of Biotechnology, Ebonyi State University, Abakaliki, Nigeria</b></li> </ol>
<b>Extra-mural Projects (Give Details)</b>
Completed: (1)
Projects in hand:
Projects submitted: (1)
<b>Ph. D. Guidance</b>
Guided ( ), Guiding ( )
<b>Publications</b>
Number of Publications: Books/Monographs: Total ( 1 ), Last Five Years ( 1 ), Last Three Years ( ), Last One Year ( ) Book Chapters: Total ( 5 ), Last Five Years ( ), Last Three Years ( ), Last One Year ( ) Research papers: Total ( 19 ), Last Five Years ( 9 ), Last Three Years ( 6 ), Last One Year ( 3 ) Reviews: Total ( 1 ), Last Five Years ( ), Last Three Years ( ), Last One Year ( )
<b>Best Peer/Review Publications (Selected)</b>
<ol style="list-style-type: none"> <li>Lakshmi Singh, <b>Santosh Kumar Sethi*</b> (2020). Stress Tolerance Effect of Three Different Sub-Aerial Cyanobacteria sp. Isolated from Exteriors of Buildings under Adverse Environmental Conditions. <i>Journal of Pure and Applied Microbiology</i> 14(4): 2729-2743.</li> <li><b>Santosh Kumar Sethi*</b> (2020). Characterization and efficacy of indigenous <i>Azotobacter</i> sp. isolated from different habitats for their nitrogen fixing ability and growth of rice. <i>Research Journal of Biotechnology</i> 15 (12): 113-119.</li> <li><b>Santosh Kumar Sethi*</b> and Arup Kumar Mukherjee (2018). Screening of Biocontrol Potential of Indigenous <i>Bacillus</i> spp. Isolated from Rice Rhizosphere against <i>R. solani</i>, <i>S. oryzae</i>, <i>S. rolfsii</i> and Response towards Growth of Rice. <i>Journal of Pure and Applied Microbiology</i> 12(1), 41-53</li> <li>S. Mohanty, C.K. Swain, R. Tripathi, <b>S.K. Sethi</b>, 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. <i>Archives of Agronomy and Soil Science</i>, 64 (4): 465-479</li> <li>S. Mohanty, C.K. Swain, <b>S.K. Sethi</b>, 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 (2017). Crop establishment and nitrogen management affect greenhouse gas emission and biological activity in tropical rice production. <i>Ecological Engineering</i>, 104: 80-98.</li> <li>Sandhya Rani Kuanar, Anuprita Ray, <b>Santosh Kumar Sethi</b>, Krishnendu Chattopadhyay, Ramani Kumar Sarkar (2017). Physiological basis of stagnant flooding tolerance in rice. <i>Rice Science</i>, 24(2):73-84.</li> <li>A. K. Nayak, R. Raja, K. S. Rao, A. K. Shukla, S. Mohanty, P. Bhattacharyya, B. Lal, <b>S. K. Sethi</b>, C. Puri, D. Nayak, C. Swain (2015). Effect of fly ash application on soil microbial response and heavy metal accumulation in soil and rice plant. <i>Ecotoxicology and Environmental Safety</i> 114: 257-262</li> <li><b>Santosh K. Sethi</b> and Siba P. Adhikary (2012). Cost effective pilot scale production of biofertilizer using <i>Rhizobium</i> and <i>Azotobacter</i>. <i>African Journal of Biotechnology</i>, 11(70): 13490-13493.</li> <li><b>S.K. Sethi</b> and S. P. Adhikary (2014). Growth response of region-specific <i>Rhizobium</i> strains isolated from <i>Arachis hypogea</i> and <i>Vigna radiata</i> to different environmental variables. <i>African Journal of Biotechnology</i> 13(34): 3496-3504.</li> </ol>
<b>Paper Presentation in Major Conferences (Upto 5)</b>
<ol style="list-style-type: none"> <li>International conference on ARRW Golden Jubilee International Symposium 2013 held from 02nd to 5th March, 2013 at Central Rice Research Institute, Cuttack and presented the paper “N management strategy to improve N recovery efficiency and reduce N<sub>2</sub>O emission from aerobic rice production system”.</li> <li>National Seminar on Plant Genomics and Biotechnology: Challenges and Opportunities in 21st Century held from 23-24 January 2016 Organized by Department of Agricultural Biotechnology, Orissa University of Agriculture and Technology, Bhubaneswar and presented the Paper “Efficacy of <i>Bacillus</i> strains isolated from rice rhizosphere on plant growth promoting and biocontrol activity against phytopathogens</li> <li>51st AMI (Association of microbiologist of India) International Symposium and Workshop held from 14th to 17th December 2010 at BIT, Mesra, Ranchi and presented paper “Growth response of region-specific <i>Rhizobium</i> strains from</li> </ol>

<p>Arachis hypogea and Vigna radiata to different environmental variables” presented in poster session</p> <p>4. International conference on Algal Biomass-Resources and Utilization held from 27-30th July 2009 at the Krishnamurthy Institute of Algology, Chennai and presented paper “Efficacy of region-specific Rhizobium and consortium of seaweed liquid fertilizer (SLF) on vegetative growth and yield of Leguminous crops” in oral session</p> <p>5. 48th AMI (Association of microbiologist of India) International conference held from 18th-21st December 2007 at IIT Madras, Chennai and presented paper “Efficacy of region specific and crop specific Rhizobium strains on the vegetative growth and yield of <i>Arachis hypogea</i> and <i>Phaseolus mungo</i>” in poster session</p>				
<b>Patents (if any)</b>				
Filed: (    ), Accepted: (    )				
<b>Events (Seminar/Symposium/Webinar/Workshop/FDP/Conference etc.) organized in capacity of convener/co-convenor</b>				
National: (   2   ), International: (    )				
<b>Memberships of Professional Bodies/Societies (Up to 5)</b>				
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			
<b>Other Details (Academic/Research related)</b>				
<p>1. XXXIII-UGC NRCBS Winter School on “<b>Differential Gene Expression in Plants and Bacteria</b>” held during 1st February to 14th February 2017 at UGC Networking Resource Centre in Biological Sciences, School of Biological Sciences, Madurai Kamaraj University, Madurai, Tamilnadu, India</p> <p>2. ICAR Niche Area of Excellence sponsored 21 days Refresher and Training on “<b>Utilization of Microbial and Plant Genomic Resources for Plant Disease Management</b>” February 5<sup>th</sup> to February 25<sup>th</sup>, 2015. at Department of Biotechnology, University of Agricultural Sciences, Dharwad, Karnataka, India</p> <p>3. ICAR sponsored 10 days Short course on <b>Advances in Gene Identification and Marker Developments</b> held from 01-10<sup>th</sup> October, 2012 at National Research Centre for Banana (ICAR), Trichy, Tamilnadu, India</p> <p>4. International workshop on <b>rRNA sequencing</b> held from 14<sup>th</sup> to 17<sup>th</sup> December 2010 on 51<sup>st</sup> AMI (Association of microbiologist of India) at BIT, Mesra, Ranchi, India.</p> <p>5. National Workshop-cum-training programme on <b>Electron Microscopy: “Basics and Application in Biological and Material Sciences”</b> held from 22<sup>nd</sup> November to 25<sup>th</sup> November 2009 at Department of Instrumentation Science Jadavpur University, Kolkata, India</p> <p>6. Orientation training on “<b>Biofertilizer (BGA): production technology &amp; quality control</b>” organized by the Directorate of Agriculture &amp; Food production, Orissa, Bhubaneswar in collaboration with P.G. Deptt. Of Biotechnology, Utkal University on 7<sup>th</sup> &amp; 8<sup>th</sup> February 2009.</p> <p>7. Workshop-cum-training programme on <b>Confocal Microscopy: Basics and Applications</b> held from 2<sup>nd</sup> December to 4<sup>th</sup> December 2008 at Institute of Life Sciences, Bhubaneswar</p> <p>8. Workshop-cum-training programme on <b>BGA and Azolla Biofertilizer</b> held from 23<sup>rd</sup> to 29<sup>th</sup> February 2008 at the Indian Agricultural Research Institute, New Delhi</p> <p>9. Workshop-cum-training on <b>Bacterial Biofertilizer</b> 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.</p> <p>10. 2020 (January - April): Successfully completed NPTEL 12-week Online Certification course on “Human genetics and Biotechnology” (IIT Madras)</p>				
<b>Research Matrix [Current]</b>				
<b>Database</b>	<b>Total citations</b>	<b>Total publications</b>	<b>Open Access</b>	<b>h-index</b>
<b>WoS</b>	86	18	4	4
<b>Publons</b>	76	18	4	4
<b>Scopus</b>	105	8	3	4
<b>GS</b>	246	24	4	8
<b>RG</b>	155	24	4	NA

  
 (Signature)