


<b>NAME</b>	Debarati Paul		
<b>DESIGNATION</b>	Professor		
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<b>CONTACT NUMBER</b>	9711828253		
<b>RESEARCH INTERESTS</b>	<b>Applied Environmental Biotechnology:</b> (1) Biofuels from oleaginous yeasts and study on genomics and proteomics of biofuel production. (2) Anti microbial activity of lipids and probiotics (3) Bioremediation of organophosphate pesticides (4) Microbial molecular ecology of contaminated environments and relation to eutrophication		
<b>EDUCATIONAL QUALIFICATIONS:</b>			
Name of College / University		Degree	Year
Institute of Microbial Technology, (CSIR lab)		Ph.D	2006
Himachal Pradesh University		MSc	2001
BSc Miranda House (DU)		BSc	1998
<b>Title of Ph.D. thesis: Molecular and biochemical studies on biodegradation of p-nitrophenol/4-nitrocatechol and bacterial chemotaxis toward these compounds</b>			
<b>EXPERIENCE (in chronological order)</b>			
Designation	Type of post held (teaching/ research)	Name of the Institute	Year (From – To)
Post doc	Research	MSU, USA	2007-2011
Asst Prof	Teaching and research	Amity Institute of Biotechnology	2011-2019
Associate Prof	Teaching and research	Amity Institute of Biotechnology	2019-2023
Prof	Teaching and research	Amity Institute of Biotechnology	2024-ongoing
<b>No. of Ph.D. students supervised</b>		Awarded: (no. only) 6	
		Ongoing: (no. only) 1	
<b>PUBLICATIONS</b> Above 80 publications as research articles, reviews, book chapters and proceedings.		1. Debarati Paul. Yeast for the production of biochemicals and biofuels. 2024. <i>Fermentation</i> . Impact factor 3.7; ISSN: 2311-5637 2. Ahuja V, Arora A, Chauhan S, Thakur S, Jeyaseelan C, Paul D. Yeast-Mediated Biomass Valorization for Biofuel Production: A Literature Review. <i>Fermentation</i> . 2023; 9(9):784. <a href="https://doi.org/10.3390/fermentation9090784">https://doi.org/10.3390/fermentation9090784</a> . Impact factor 3.7; ISSN: 2311-5637 3. Ahuja, V., Sharma C., Paul D., et al. Unlocking the power of synergy: Cosubstrate and coculture fermentation for enhanced biomethane production. <i>Biomass and Bioenergy</i> . 2024. Vol 180. <a href="https://www.sciencedirect.com/science/article/pii/S09611953423002957">https://www.sciencedirect.com/science/article/pii/S09611953423002957</a> ; Impact factor: 6; ISSN: 0961-9534 4. Ahuja, Vishal; Singh, Amanpreet; Paul, Debarati; Dasgupta, Diptarka; Urajová, Petra; Ghosh, Sounak; Singh, Roshani; Sahoo, Gobardhan; Ewe, Daniela; Saurav, Kumar. Recent advances in the detection of food toxins	

	<p>using mass spectrometry. <i>Chemical Research in Toxicology</i>. 2023; 36(12): 1834–1863. IMPACT-4.1; 10.1021/ACS.CHEMRESTOX.3C00241</p> <ol style="list-style-type: none"> <li>5. Paul D, Bohacz J and Bhatia SK (2023) Editorial: Biowaste valorization utilizing microbial systems. <i>Front. Microbiol.</i> 14:1213598; <a href="https://doi.org/10.3389/fmicb.2023.1213598">https://doi.org/10.3389/fmicb.2023.1213598</a>; IMPACT FACTOR:6.1</li> <li>6. Paul, D*; Kumari, P.K.; Siddiqui, N. Yeast Carotenoids: Cost-Effective Fermentation Strategies for Health Care Applications. <i>Fermentation</i> 2023, 9, 147. IMPACT FACTOR: 3.7. ISSN: 2311-5637; <a href="https://www.mdpi.com/2311-5637/9/2/147">https://www.mdpi.com/2311-5637/9/2/147</a></li> <li>7. Sinha S, Das S, Saha B, Paul D and Basu B. Anti-microbial, anti-oxidant, and anti-breast cancer properties unraveled in yeast carotenoids produced via cost-effective fermentation technique utilizing waste hydrolysate. <i>Front. Microbiol.</i> <b>2022</b>. 13:1088477. doi: 10.3389/fmicb.2022.1088477. eISSN:1664-302X IMPACT FACTOR: 6.062</li> <li>8. Hasan, R., Bose, S., Roy, R. <i>et al.</i> Tumor tissue-specific bacterial biomarker panel for colorectal cancer: <i>Bacteroides massiliensis</i>, <i>Alistipes species</i>, <i>Alistipes onderdonkii</i>, <i>Bifidobacterium pseudocatenulatum</i>, <i>Corynebacterium appendicis</i>. <i>Arch Microbiol</i> <b>204</b>, 348 (2022). <a href="https://doi.org/10.1007/s00203-022-02954-2">https://doi.org/10.1007/s00203-022-02954-2</a> Impact: 2.8 Issn: 0003-9276</li> <li>9. Kumari A, Bhatoee M, Singh P, Kaladhar VC, Yadav N, <b>Paul D</b>, Loake GJ, Gupta KJ. Detection of Nitric Oxide from Chickpea Using DAF Fluorescence and Chemiluminescence Methods. <i>Curr Protoc.</i> <b>2022</b> Apr;2(4):e420.</li> <li>10. Nimonkar YS, Godambe T, Kulkarni A, Patel T, Paul D, <b>Paul D</b>, Rale V, Prakash O. Oligotrophy vs. copiotrophy in an alkaline and saline habitat of Lonar Lake. <i>Front Microbiol.</i> 2022 Aug 4;13:939984. eISSN:1664-302X IMPACT FACTOR: 6.062</li> <li>11. Kumari A, Singh P, Kaladhar VC, Manbir, Paul D, Pathak PK, Gupta KJ. Phytoglobulin-NO cycle and AOX pathway play a role in anaerobic germination and growth of deepwater rice. <i>Plant Cell Environ.</i> 2022. 45(1):178-190. eISSN: 1365-3040 <b>Impact:7.9</b></li> <li>12. Paul D, Arora A, Verma ML. Editorial: Advances in Microbial Biofuel Production. <i>Front Microbiol.</i>12; 746216; DOI: 10.3389/fmicb.2021.746216 eISSN:1664-302X IMPACT FACTOR: 6</li> <li>13. Sweta Sinha, Gunjan Singh, <b>Paul D*</b> (2021) Lipid and carotenoid production by <i>Rhodospiridium toruloides</i> ATCC204091 using C5 and C6 sugars obtained from lignocellulosic hydrolysate. <i>J. Env. Biol.</i> 42(4): 938-944. ISSN:0254-8704 IMPACT: 0.6</li> <li>14. Sweta Sinha, Amrita Chatterjee, Gunjan Singh, K Kiran Kumar, Naseem A Gaur, K N Singh, Anju Arora, Shailja Singh, <b>Paul D*</b>. (2021) Isolation and identification of carotenoid producing yeast and evaluation of antimalarial activity of the extracted carotenoid(s) against <i>P. falciparum</i>. <i>BIOLOGIA FUTURA</i>. 72(3):325-337. <a href="https://doi.org/10.1007/s42977-021-00081-5">https://doi.org/10.1007/s42977-021-00081-5</a> ISSN: 2676-8615 IMPACT:1.8</li> <li>15. Shalley Sharma; Chandrika Ghoshal; Anju Arora; Wara Samar; Lata Nain; <b>Debarati Paul</b>. (2021) Strain improvement of native <i>Saccharomyces cerevisiae</i> LN ITCC 8246 strain through protoplast fusion to enhance its xylose uptake. <i>Applied Biochemistry and Biotechnology</i>, 193(8), 2455-2469. DOI 10.1007/s12010-021-03539-3 ISSN: 0273-2289 IMPACT FACTOR: 3.94</li> </ol>
<p><b>PATENTS</b> (<i>total no.</i>) <b>1</b></p>	<p><i>Details:</i> Artificial soil components for degrading industrial effluents to achieve clean environment and high crop yield</p>
<p><b>RESEARCH PROJECTS</b> Completed: (<i>total no.</i>) <b>2</b> Ongoing: (<i>total no.</i>) <b>1</b></p>	<p><i>Details:</i> PI of a DBT (Depart of Biotechnology) project “Lab scale biorefinery for concomitant production of biofuel(s) along with other important products using agricultural waste” (Rs 27.14 lakhs).</p>

<p><b>AWARDS &amp; HONOURS/ DISTINCTIONS</b></p>	<ul style="list-style-type: none"> <li>• Awarded ‘Bharat Gaurav award’ from India International Friendship Society, for promotion of national integration in March 2016.</li> <li>• Awarded travel award from Dept of Sc &amp; Technology (2014) for speaking at a conference in San Diego (California, USA) on Pacific BIO RIM Summit.</li> <li>• Awarded Indo US fellowship 2013 by IUSSTF (Indo US Science &amp; Technology Forum).</li> </ul>
<p><b>MEMBERSHIP</b> with Professional/ Academic bodies : 2</p>	<ol style="list-style-type: none"> <li>1. Indian Science Congress Association (no L22580)</li> <li>2. Association of Microbiologists of India (AMI/LM-463/2013)</li> </ol>