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| NAME | Dr Debarati Paul | | |
| DESIGNATION | Associate Prof | | |
| EMAIL ID | dpaul@amity.edu | | |
| CONTACT NUMBER | 9711828253 | | |
| RESEARCH INTERESTS | Environmental Biotechnology | | |
| EDUCATIONAL QUALIFICATIONS: | | | |
| Name of College / University | Degree | Year | |
| Institute of Microbial Technology | PhD | 2006 | |
| Himachal Pradesh Univ | MSc Biotechnology | 2001 | |
| Delhi Univ | BSc Botany (H) | 1998 | |
| Title of Ph.D. thesis: Molecular and biochemical studies on biodegradation of <i>p</i> -nitrophenol/4-nitrocatechol and bacterial chemotaxis toward these compounds | | | |
| EXPERIENCE (in chronological order): Total 20 Years Research & Teaching | | | |
| Designation | Type of post held (teaching/ research) | Name of the Institute | Year (From – To) |
| Assistant Prof | Teaching and research | Amity Institute of Biotech | 2011-2019 |
| Associate Prof | Teaching /res /admin | Amity Institute of Biotech | 2019-current |
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| No. of Ph.D. students supervised | 5 2 ongoing | | |
| No. of Post-Doc | 0 | | |
| No. of M.Tech. Students supervised: | 5 | | |
| No. of B.Tech. Students supervised: | 5 | | |
| PUBLICATIONS | <ol style="list-style-type: none"> 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. https://doi.org/10.3390/fermentation9090784 Ahuja, V; Singh, A; Paul, D; Dasgupta, D; Urajová, P; et al. Recent advances in the detection of food toxins using mass spectrometry". <i>Chemical Research in Toxicology</i>. 10.1021/ACS.CHEMRESTOX.3C00241 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. https://www.sciencedirect.com/science/article/pii/S0961953423002957 Paul D, Bohacz J and Bhatia SK (2023) Editorial: Biowaste valorization utilizing microbial systems. <i>Front. Microbiol.</i> 14:1213598; https://doi.org/10.3389/fmicb.2023.1213598; IMPACT FACTOR:6.1 Paul, D*; Kumari, P.K.; Siddiqui, N. Yeast Carotenoids: Cost-Effective Fermentation Strategies for Health Care Applications. <i>Fermentation</i> 2023, 9, 147. IMPACT | | |
| 80 | | | |

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| | <p>FACTOR: 3.7. ISSN: 2311-5637; https://www.mdpi.com/2311-5637/9/2/147</p> <ol style="list-style-type: none"> 6. 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> 2022. 13:1088477. doi: 10.3389/fmicb.2022.1088477. eISSN:1664-302X IMPACT FACTOR: 6.062 7. 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> 204, 348 (2022). https://doi.org/10.1007/s00203-022-02954-2 Impact: 2.8 Issn: 0003-9276 8. Kumari A, Bhatooe M, Singh P, Kaladhar VC, Yadav N, Paul D, Loake GJ, Gupta KJ. Detection of Nitric Oxide from Chickpea Using DAF Fluorescence and Chemiluminescence Methods. <i>Curr Protoc.</i> 2022 Apr;2(4):e420. 9. Kumari A, Singh P, Kaladhar VC, Manbir, Paul D, Pathak PK, Gupta KJ. Phytoglobin-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 Impact:7.9 10. 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 11. Sweta Sinha, Amrita Chatterjee, Gunjan Singh, K Kiran Kumar, Naseem A Gaur, K N Singh, Anju Arora, Shailja Singh, Paul D*. (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. Issue (3) :325-337. https://doi.org/10.1007/s42977-021-00081-5 ISSN: 2676-8615 IMPACT:1.11 12. Sweta Sinha; Gunjan Singh; Anju Arora; Debarati Paul* (2021) Carotenoid production by red yeast isolates grown in agricultural and "mandi" waste". <i>Waste and Biomass Valorization.</i> vol 12. 3939–3949. https://doi.org/10.1007/s12649-020-01288-8 IMPACT FACTOR: 3.7 ISSN: 1877-2641 |
| PATENTS (1.) | Patent no. 2018/DEL/2013, CBR 6753 |
| RESEARCH PROJECTS Completed: (2.) Ongoing: (1) | <ul style="list-style-type: none"> • PI of a DBT (Depart of Biotechnology) project BT/PR7122/PBD/26/369/2012dated 30-05-2013 (~Rs 27 lakhs). • Co-PI of ICAR project (NBAIM/AMAAS/2017-2020/GF/1a/499) (~ Rs 23 lakhs) dated 12th Dec 2017, extension dated 25th April 2020. |

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| | <ul style="list-style-type: none"> • PI of DST-CRG project (CRG/2022/003411) (2023-2026) |
| <p>AWARDS & HONOURS/ DISTINCTIONS</p> | <ul style="list-style-type: none"> • Awarded second position for ORAL presentation in National conference on perspectives on biosciences and biotechnology (NCPBB 2023), held on 19th-20th May 2023 at Lucknow. • Certified trainer (ID-TR16687) on QC chemist microbiology from Life sciences sector skill development council (LSSSDC). • Awarded ‘Bharat Gaurav award’ from India International Friendship Society, for promotion of national integration in March 2016. • Awarded (but did not avail) travel award from Dept of Sc & Technology (2014) for speaking at a conference in San Diego (California, USA) on Pacific BIO RIM Summit. • Awarded Indo US fellowship 2013 by IUSSTF (Indo US Science & Technology Forum). |
| <p>MEMBERSHIP with Professional/ Academic bodies</p> | <ol style="list-style-type: none"> 1. Indian Science Congress Association (no L22580) 2. Association of Microbiologists of India (AMI/LM-463/2013) |