

Dr. POORNACHANDAR GUGULOTHU

Assistant Professor

Department of Biotechnology

Central University of Tamil Nadu

Neelakudy, Thiruvarur – 610 005, INDIA

Mail.ID : poornachandar@cutn.ac.in

bio.poorna@gmail.com

Contact No : +91 9966943450

ORCID : <https://orcid.org/0000-0001-7185-9507>

Google Scholar Id: [2Qh8IL8AAAAJ](https://scholar.google.com/citations?user=2Qh8IL8AAAAJ)



Academic Qualification

Ph.D.: University college of Science, Department Biochemistry, Osmania University, Hyderabad, Telangana, India. 2021.

M.Sc.: Institute of Science and Technology, Department of Biotechnology, Jawahar Lal Nehru Technological University, Hyderabad, Telangana, India. 2010.

B.Sc.: Kavitha Memorial Degree and PG college, Kakatiya University, Warangal, Telangana, India. 2005.

Professional Experience

Assistant Professor: Department of Biotechnology, Central University of Tamil Nadu, Thiruvarur - (27-01-2020 to till date).

Assistant Professor: Department of Biotechnology, Srinivasa Pharmaceutical Institute and Centre for Research, Vikarabad, Telangana- (2010-2015).

Research Interest: Phytochemistry, Pathway studies in cancer biology, Gene cloning, Gene transcriptomics, Proteomics and Drug targeting system.

Specialization: Animal Biotechnology, Cancer biology, Molecular biology, Endocrinology, Phytochemistry and Algal biotechnology.

Honors /Award:

Awarded - National fellowship UGC, JRF and SRF, Cancer biology

Awarded- CSIR- NET in Life Sciences

Awarded- UGC-SET in Life Sciences

Awarded- Best oral presentation award “Inter National Seminar on “Biochemistry, Nutrition and Pharmacy in Human welfare; Recent trends and Future challenges (ICBNP 2016)”.

Research Guidance:

- Supervising 1 students for Ph.D. Department of Biotechnology, Central University of Tamil Nadu, Thiruvarur.

- M.Sc. students for their research projects (10 students 2020-23)

Memberships:

- The Biotechnology research Society India (BRSI)-LM2430
- ISCA- Annual member-A5302
- ISCB- Annual Member-A5302

Research grants received:

- DBT grant, Government of India (2021-2023) **(Co-PI)**
- UGC-STRIDE grant, Government of India (2020-2022) **(Co-PI)**

Research grants recently submitted:

- DBT grant, Government of India (2023) **(PI)**
- SERB-CRG, Government of India (2023) **(PI)**

Reviewer for following journal:

- Frontiers in Sustainability, Frontiers (2.1 IF)

List of Paper published:

- Implication of HIF-1 α signaling in human growth hormone (hGH) induced mammary carcinoma, Poornachandar Gugulothu1*, Dhatri Madduru2, Srinivas Baskari2, Suresh Velpula2, Venkata Ramana Devi2, D. Meera2, Amit Kumar Bajhaiya3, Yerramsetty Suresh4, Journal of Oncology, Hindawi Willy (Accepted) 2023-may.
- Amelioration of Biogas Production from Waste-Activated Sludge through Surfactant-Coupled Mechanical Disintegration, Vijetha Valsa 1, †, Geethu Krishnan S 1, †, Rashmi Gondi 1, Preethi Muthu 2, Kavitha Sankarapandian 3, Gopalakrishnan Kumar 4,5, Poornachandar Gugulothu 6 and Rajesh Banu Jeyakumar 6, Fermentation 2023-01-09 | Journal article, DOI: [10.3390/fermentation9010057](https://doi.org/10.3390/fermentation9010057), Part of ISSN: [2311-5637](https://doi.org/10.3390/fermentation9010057), Publisher MPDI (**Impact factor:5.12**)
- Renewable biofuels from microalgae: technical advances, limitations and economics, Environmental Technology Reviews Taylor & Francis Group 2023-01-04 | Review, <https://doi.org/10.1080/21622515.2023.2167126>. (**Impact factor: 3.47**)
- Bioactive Compound from Micro Algae and their Anti-Cancer Properties, **Poornachandar Gugulothu1***, Amit K Bajhaiya2 and RajeshBanu J1, Biomedical Journal of Scientific & Technical Research, 2022-03-18 | Journal article DOI: [10.26717/bjstr.2022.42.006799](https://doi.org/10.26717/bjstr.2022.42.006799) Part of ISSN: [2574-1241](https://doi.org/10.26717/bjstr.2022.42.006799) (**Impact factor :1.869**)
- Genetic Engineering of Microalgae for Secondary Metabolite Production: Recent Developments, Challenges, and Future Prospects, Frontiers in Bioengineering and Biotechnology, 2022-03-23 | Journal article, Arathi Sreenikethanam1, Subhisha Raj 1, Rajesh Banu J 2, **Poornachandar Gugulothu2** and Amit K. Bajhaiya1 *DOI: [10.3389/fbioe.2022.836056](https://doi.org/10.3389/fbioe.2022.836056), Part of ISSN: [2296-4185](https://doi.org/10.3389/fbioe.2022.836056), (**Impact factor:5.869**)
- Algal lipids for Biofuel production: Strategies, Environmental impacts, Downstream processing and commercialization, **Poornachandar Gugulothu1***, Amit K Bajhaiya2 and Rajesh Banu J1, Phytochemistry Reviews, 2022-06-14 | Journal

article, DOI: [10.1007/s11101-022-09824-1](https://doi.org/10.1007/s11101-022-09824-1), Part of ISSN: [1568-7767](https://doi.org/10.1007/s11101-022-09824-1), Part of ISSN: [1572-980X](https://doi.org/10.1007/s11101-022-09824-1), (**Impact Factor:4.6**)

- Biohydrogen production from waste activated sludge through thermochemical mechanical pretreatment, Rajesh Banu J1: **Poornachandar Gugulothu1***, Amit K Bajhaiya2 and Bioresource Technology scientific journal published by Elsevier: 2022-05 | Journal article, DOI: [10.1016/j.biortech.2022.127301](https://doi.org/10.1016/j.biortech.2022.127301), Part of ISSN: [0960-8524](https://doi.org/10.1016/j.biortech.2022.127301), (**Impact Factor:9.4**)
- Microalgae as a Source of Mycosporine-Like Amino Acids (MAAs); Advances and Future Prospects Subhisha Raj1, Anusree M. Kuniyil 1, Arathi Sreenikethanam 1, **Poornachandar Gugulothu** 2, Rajesh Banu Jeyakumar 2 and Amit K. Bajhaiya 1, * International Journal of Environmental Research and Public Health, 2021-11 | Journal article | author, DOI: [10.3390/ijerph182312402](https://doi.org/10.3390/ijerph182312402), (**Impact factor:3.390**)
- Biofuel production from Macroalgae: Present Scenario and Future Scope, Godvin Sharmila V, Dinesh Kumar M, Arulazhagan Pugazhendi, Amit Kumar Bajhaiya, **Poornachandar Gugulothu** & Rajesh Banu J, **Bioengineered, Taylor & Francis Group**, Bioengineered, 2021-10-28 | Journal article, DOI: [10.1080/21655979.2021.1996019](https://doi.org/10.1080/21655979.2021.1996019), Part of ISSN: [2165-5979](https://doi.org/10.1080/21655979.2021.1996019), Part of ISSN: [2165-5987](https://doi.org/10.1080/21655979.2021.1996019), (**Impact factor:3.269**)
- Influence of autocrine growth hormone on NF- κ B activation leading to epithelial-mesenchymal transition of mammary carcinoma, **Poornachandar1** Srinivas Baskari, Srinivas Naik, **Tumor biology Tumor Biology October 2017:1-6** Tumor Biology, 2017-10 | Journal article, DOI: [10.1177/1010428317719121](https://doi.org/10.1177/1010428317719121), Part of ISSN: [1010-4283](https://doi.org/10.1177/1010428317719121), Part of ISSN: [1423-0380](https://doi.org/10.1177/1010428317719121), journals.sagepub.com/home/tub 2017, (**Impact factor:2.962**)

No. of seminars/conferences/invited lectures /FDP:

- 3rd International Conference on Renewable Energy, Sustainable Environmental and Agri-technological Innovation (i-RESEAT), Maejoram University, Chiang Mai, Thailand), 22th – 23th, December 2021.
- Current scenario and future challenges with Emphasis on awareness about COVID-19 pandemic. The national academy of science India (NASI) Rajasthan, India 22nd December 2020.
- **Invited lectures:** Biology of Cancer: Treatment & Prevention, S.R. R Govt. Arts and Science College (Re-Accredited with ‘A’ by NAAC), Karimnagar-505001, Telangana, India, 12 May -2022.
- The Combinational drug in Cancer therapy, Environmental stress and its management (ESIM-2023), Govt. K.R.G.P. G college, Gwalior (MP), sponsored by IQAC, Organized by Department of Zoology.
- **Resource Person:** As a resource person, (UGC-HRDC, Department of Biochemistry-Online Refresher Course in Nano-biochemistry and Bioinformatics), Hyderabad, India” Pharmacological effects of Cisplatin combination with Natural compounds in Cancer Therapy” 11-10-2022.
- **As chaired Scientific Session:** National seminar Environmental stress and its management (ESIM-2023), Govt. K.R.G.P. G college, Gwalior (MP), sponsored by IQAC, Organized by

Department of Zoology

Professional Development Activities like Conferences, Seminars, Workshops, and Training Programmed organized:

- **FDP (Co-convenor):** Measures to mitigate climate change, Department of Life Sciences, Central University of Tamil Nadu, 12th Oct to 16th Oct 2020.
- **National Seminar (Co-convenor):** Biotechnology applications in science and technology, Department of Biotechnology, Central University of Tamil Nadu, and its 29 & 30th September 2022.
- CUTN counsellor cum placement officer for enabling Unit.
- One day symposium on mainstreaming the disabled, accessibility and equity, Organizing Committee member (Enabling Unit): Date: 13-12-2022.
- International Sign Language Day Celebration 2022 As part of “Azadi Ka Amrit Mahotsav” 23.09.2022.
- UGC-HRDC online faculty induction course, Mizoram Central University, Mizoram, 2nd to 22nd November 2022.
- UGC- HRDC online FDP online programme on Thematic popularization of NEP, Mizoram Central University, Mizoram, 2nd November 2022 (Grade - A).
- UGC-HRDC online refresher course in Life science, Osmania University, Hyderabad, Telangana, 15-11-2022 to 28-11-2022 (Grade A)
- Exploring open access: Strategies for successful publication by Tylor and Francie's group July 10th 2023.

Published Abstract:

- ICES2023 (International conference and Exhibition for science) organized by King Saudi University “Implication of HIF-1 α signaling in human growth hormone (hGH) induced mammary carcinoma.