

CURRICULUM VITAE

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Research interest: My research interests include natural biometabolites and their applications, Combination drug delivery system in cancer therapy, Pathway studies in cancer biology and fermentation technology.

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,
- 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:

- M.Sc. students for their research projects (11 students 2020-24)

Memberships:

- The Biotechnology Research Society India (BRSI)-LM2430
- ISCA-Annual member-A5302
- ISCB-Annual Member-A5302
- American Society of Clinical Oncology (Society) and the Association for Clinical Oncology (Association)- 7279392
- INYAS (Indian National Young Academy of Science)- A0420241421

Research grants received:

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

Reviewer for following journal:

- Frontiers in Sustainability, Frontiers (2.1 IF)

List of Paper published:

- **Poornachandar Gugulothu**, Dhatri Madduru, Srinivas Baskari, Suresh Velpula, Yerramsetty Suresh, Venkata Ramana Devi. Implication of HIF-1 α signaling in human growth hormone (hGH) induced mammary carcinoma, Indian Journal of Experimental Biology. March-2024.
- Valsa V, S GK, Gondi R, Muthu P, Sankarapandian K, Kumar G, **Poornachandar Gugulothu**, Jeyakumar RB. Amelioration of Biogas Production from Waste-Activated Sludge through Surfactant-Coupled, Mechanical Disintegration. Fermentation. (2023);9(1):57. <https://doi.org/10.3390/fermentation9010057>, (ISSN: 2311-5637). (IF:5.12)
- Subhisha Raj, Amrutha Sajith, Arathi Sreenikethanam, Swathi Vadlamani, Aiswarya Satheesh, Anurup Ganguly, Rajesh Banu, Sunita Varjani, **Poornachandar Gugulothu** & Amit K. Bajhaiya. "Renewable biofuels from microalgae: technical advances, limitations and economics, Environmental Technology Reviews. Taylor & Francis Group, (2023) 12:1, 18-36, <https://doi.org/10.1080/21622515.2023.2167126>. (IF: 3.47)
- **Poornachandar Gugulothu**, Amit K Bajhaiya and Rajesh Banu J Bioactive Compound from Micro Algae and their Anti-Cancer Properties, Biomedical Journal of Scientific & Technical Research, (2022). <https://doi:10.26717/bjstr.2022.42.006799>. (ISSN: 2574-1241). (IF :1.869)
- Sreenikethanam A, Raj S, J RB, **Poornachandar Gugulothu**, Bajhaiya AK. Genetic

Engineering of Microalgae for Secondary Metabolite Production: Recent Developments, Challenges, and Future Prospects. *Front Bioengineering Biotechnology*.(2022). 10, 836056. <https://doi.org/10.3389/fbioe.2022.836056>. (ISSN: 2296-4185).(IF:5.869)

- Sreenikethanam, A., Raj, S., **Poornachandar Gugulothu**, Amit K Bajhaiya and Rajesh Banu J, Algal lipids for Biofuel production: Strategies, Environmental impacts, Downstream processing and commercialization, *Phytochemistry Reviews*,(2022),14(22):15070,<https://doi.org/10.1007/s11101-022-09824-1>,(ISSN: 1568-7767).(IF:4.6)
- Preethi, Rajesh Banu, J. Gopalakrishnan Kumar, Tyagi, V. K., Bajhaiya, A. K., **Poornachandar Gugulothu**, & Gunasekaran, M. Biohydrogen production from waste activated sludge through Thermochemical mechanical pretreatment. *Bioresource Technology*, (2022), 358,127301. <https://doi.org/10.1016/j.biortech.2022.127301>, (ISSN: 0960- 8524).(IF:9.4)
- Raj, S., Kuniyil, A. M., Sreenikethanam, A., **Poornachandar Gugulothu**, Jeyakumar, R. B., & Bajhaiya, A. K. Microalgae as a Source of Mycosporine-like Amino Acids (MAAs); Advances and Future Prospects. *International journal of environmental research and public health*, (2021), 18(23), 12402. <https://doi.org/10.3390/ijerph182312402>.(IF:3.390)
- V, G. S., M, D. K., Pugazhendi, A., Bajhaiya, A. K., **Poornachandar Gugulothu**, & J, R. B. (2021). Biofuel production from Macroalgae: present scenario and future scope. *Bioengineered*, 12(2),9216–9238, <https://doi.org/10.1080/21655979.2021.1996019>, (ISSN: 2165-5987).(IF:3.269)
- Baskari, **Poornachandar Gugulothu**, & Devi, V. R. Influence of autocrine growth hormone on NF-κB activation leading to epithelial-mesenchymal transition of mammary carcinoma. *Tumor Biology*:(2017). 39(10),<https://doi.org/10.1177/1010428317719121>.(ISSN: 1423-0380).(IF:2.962)

No.ofseminars/conferences/invitedlectures/FDP:

- International Conference on New Horizons in Biotechnology (NHBT-2023) jointly organized by the CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum and the Biotech Research Society, India at Trivandrum, India during November 26-29, 2023 and presented a paper as Contributory Oral speaker.
- 3rd International Conference on Pollution Prevention and Clean Technologies (ICPPCT) České Budějovice, Czech Republic, **Poland**. Title: Unveiling the Inefficiency of Surfactants in Enhancing Solubility for Protein-Rich Biomass: A Case Study with *Lemna minor*. September 13 - 15, 2023 (hybrid event platform).
- The webinar on Integrated Cancer Education in Genitourinary Cancers (ICE-GU), Organized by Indian Oncology Foundation, supported by: **AstraZeneca**. 21st September 2023 in a virtual mode.
- 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:**
- **Resource Person:** As a resource person, conducted by GPAVENS Life Sciences Pvt Ltd, AIC-CCMB, Habsiguda, Hyderabad, Telangana, "Flavonoid Extracted from Microalgae: Their promising role in Cancer Therapy" and Workshop on Animal Cell culture. 13 and 14 March 2024.
- As a resource person, conducted by Department of chemistry, South campus, Bhiknur, Telangana University, is organizing National Science Day celebrations Telangana University, invited talk on Recent trends in Cancer Biology, 14th march 2024
- **Resource Person:** As a resource person, Omega College of Pharmacy, Ghatkesar, Hyderabad" "The Combination of Alkaloids Extracted from Microalgae: Their promising role in Cancer Therapy." 03/11/2023.
- Chemistry colloquium seminar series "Combination of Flavonoids extracted from microalgae; Their promising role in Cancer therapy" Department of Chemistry, Central University of Tamil Nadu, Thiruvavur, Tamil Nadu. 13-09-2023.
- 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 a 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.
- Eminent speaker: One day National level seminar on "Combination of Alkaloids extracted from microalgae; Their promising role in Cancer therapy", Omega College of Pharmacy, Ghatkesar, Hyderabad, Telangana, India. 03-11-2023.

Professional Development

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

- **FDP (Co-convenor):** Measure 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. Committee member (Enabling Unit).
- 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.
- Influencing policy and practice with open research- by Tylor and Francie's group August 3rd 2023.
- Deciphering Prostate Cancer: Understanding the disease spectrum and approaches to its treatment of integrated cancer education in genitourinary cancer (ICE-GU) by Indian Oncology Foundation and AstraZeneca. 21-09-2023.
- Surgery for breast cancer: Complication and management- Modified radical mastectomy by Indian anti-cancer trust (IACT) collaboration with breast global held on 13-10-2023.

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.