Basic Details:

- **Name:** Dr. G. SHANTHI
- **Designation**: Assistant Professor/ HOD
- **Phone Number:** 8148483445
- **Email ID:**

  hod.biotech.rmp@srmist.edu.in
  shanthig@srmist.edu.in

- **Area or Subject:** B . T e c h Biotechnology, M.Tech Industrial Biotechnology & P.hD in Microalgae Biotechnology
- **Affiliation:** Department of Biotechnology, SRM Institute of Scienceand Technology, Ramapuram campus.

Educational Details:

- **Degree** – B.Tech, M. Tech, PhD
- **Area or Subject** – B . T e c h Biotechnology, M.Tech Industrial Biotechnology & P.hD in Microalgae Biotechnology.
- **University** – Bharathidasan University, SASTRA University, National Institute of Technology
- **Awarded Year** –

  B . T e c h Biotechnology, School of Engineering and Technology, Bharathidasan University,**2003.**

  M.Tech Industrial Biotechnology, SASTRA University, **2005**

  P.hD in Microalgae Biotechnology, National Institute of Technology, Trichy, **2021**.

Other Details:

Courses:
Bioprocess Engineering, Downstream processing, Energy Engineering, Environmental Biotechnology and pollution control, Bioenergy technologies, Recombinant DNA technology

Research Interests: Microalgae Biotechnology and Bioenergy

Papers Publications:

- G. Shanthi, M. Premalatha, N. Anantharaman; Effects of L-amino acids as organic nitrogen source on the growth rate, biochemical composition and polyphenol content of

Spirulina platensis, Algal Research, 35, 471-478.

- G. Shanthi, M. Premalatha, N. Anantharaman; Potential utilization of fish waste for the sustainable production of microalgae rich in renewable protein and phycocyanin-*Spirulina platensis*, Journal of Cleaner Production, 294,2021,126106.
- G.Shanthi, M.Premalatha, N.Anantharaman Production and characterization of valuable protein hydrolysate from de-oiled residual biomass-Spirulina platensis, Biocatalysis and agricultural Biotechnology.

PATENT PUBLISHED:

- "Plant derived nitrogen and phosphorous for Microalgae cultivation" commercial patent, Inventors: Shanthi.G and M Premalatha, National Institute of Technology, Trichy,India (Under processing).

Papers communicated

- G.Shanthi, M.Premalatha, N.Anantharaman; In virto digestibility, functional and antioxidant activities of protein hydrolysates derived from de-oiled residual biomass of Spirulina platensis" Communicated to food chemistry (2023)

Papers Presented:

International Conferences

- International Conference on "Embracing Biotechnology for a Sustainable Future" presented a paper on "Production of protein hydrolysates from dephenolized residual biomass of Spirulina" Shanthi.G, Anand VK, Swathi.G held on March 10-11, 2023, Raja Lakshmi Engineering College, Chennai.

- International Conference on "Embracing Biotechnology for a Sustainable Future" presented a paper on "Investigation of In Vitro Digestibility of Algal Protein- Chlorella sp" Nithish Kanna S., Shanthi G, Yaasir S, held on March 10-11, 2023, Raja Lakshmi Engineering College, Chennai.

National Conferences

- "National virtual conference on Food and Health Sciences –The Futuristic Outlook" presented a paper on "Production and characterization of protein hydrolysates from Arthospira platensis" held on Feb 9-10, 2023, NIFTEM, Thanjavur.
- National conference on Retrospect of Biological Sciences (NCRBS) presented a paper on production of hard carbon from tea waste" held on April 3,2023, College of Science and Humanities SRM, Ramapuram,Chennai

Working Papers:

- G.Shanthi, Daryl Lee, Raymond Lau, M.Premalatha; Effect of ultrasonication on in vitro digestibility of microalgae nutrients and energy content- *Chlorella sp*.
- G.Shanthi, M.Kirthika, M.Premalatha, N.Anantharaman; Effects of L-amino acids on CO_2 sequestration of *Spirulina platensis*
- G.Shanthi, M.Premalatha, N.Anantharaman; Optimization of green extraction of polyphenolics compounds from *Spirulina platensis*
- G.Shanthi, M.Premalatha, N.Anantharaman; Influence of organic nitrogen source on simultaneous production of photosynthetic pigments and polyhydroxyalkanoate (PHA) of *Spirulina platensis*

Work in Progress:

- Carbon sequestration
- Functional foods
- Value added products from leather waste
- Energy storage materials

International Conference Conducted: NIL

Workshop/Conferences attended:

International Conferences

- International Conference on "Embracing Biotechnology for a Sustainable Future" presented a paper on "Production of protein hydrolysates from dephenolized residual biomass of Spirulina" Shanthi.G, Anand VK, Swathi.G held on March 10-11, 2023, Raja Lakshmi Engineering College, Chennai.

- International Conference on "Embracing Biotechnology for a Sustainable Future" presented a paper on "Investigation of In Vitro Digestibility of Algal Protein- Chlorella sp" Nithish Kanna S., Shanthi G, Yaasir S, held on March 10-11, 2023, Raja Lakshmi Engineering College, Chennai.

National Conferences

- "National virtual conference on Food and Health Sciences –The Futuristic Outlook" presented a paper on "Production and characterization of protein hydrolysates from Arthospira platensis" held on Feb 9-10, 2023, NIFTEM, Thanjavur.
- National conference on Retrospect of Biological Sciences (NCRBS) presented a paper on production of hard carbon from tea waste" held on April 3, 2023, College of Science and Humanities SRM, Ramapuram, Chennai.

Academic Experience:

- Worked as Assistant Professor at SASTRA University, School of Chemical and Biotechnology since 1st August 2005 to 31 Nov 2008 (3 Year & 3 months). 2005-2008.

- Worked at National Institute of Technology Trichy as Temporary faculty in Department of Energy and Environment Since on 3rd Feb 2014 to 30th July 2015 (1 year 4 months). 2014-2015.
- Current Position as Assistant Professor and Head, Department of Biotechnology, SRMIST, Ramapuram, Chennai Since 13th July 2022 Till Date.

Memberships:

- NIL