

## Faculty Profile

**Name** : Mrs. C. Sasikala

**Designation** : Assistant Professor

**Department** : Microbiology



**Qualification** : M. Sc., M. Phil., PGDQA. (Ph. D)

**Experience** : Teaching: 10 Years 10 months Industry: 2 Years Research: Nil

**Area of Specialization(s)** : Marine Microbiology

**Email (Official ID)** : [sasikalac@drngpasc.ac.in](mailto:sasikalac@drngpasc.ac.in)

## Academic Qualifications

Degree	Course Name	College Name	Year of Pass Out
Ph.D.	Microbiology	Dr. N. G. P. Arts and Science College (Autonomous), Coimbatore – 48.	Pursuing
M.Phil.	Microbiology	Dr. N. G. P. Arts and Science College (Autonomous), Coimbatore -48.	2013
PG	Microbiology	Tiruppur Kumaran College for Women, Tiruppur.	2009
UG	Microbiology	Tiruppur Kumaran College for Women, Tiruppur.	2007

## Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
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Diploma	Post Graduate Diploma in Quality Assurance	Tiruppur Kumaran College for Women, Tiruppur.	2009
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### Grants Received

Event Title	Agency	Amount	Date
Screening for antimicrobials of seaweeds from coastal area of south India against plant pathogens	TNSCST	Rs. 10,000/-	26.04.2017
Screening for antimicrobial activity of seaweeds isolated from south Indian coast against human pathogens	UGC Minor Research Project	Rs. 2,80,000/-	Mar-14

### Projects

#### Completed

Project Title	Agency	Amount	Duration	Status
Screening for antimicrobials of seaweeds from coastal area of south India against plant pathogens	TNSCST	Rs. 10,000/-	Dec-17 to Mar-17	Completed
Screening for antimicrobial activity of seaweeds isolated from south Indian coast against human pathogens	UGC Minor Research Project	Rs. 2,80,000/-	2014-16	Completed
Antagonistic activity of <i>Nyctanthes arbour tristis</i> against fungal pathogen	Management of Dr NGPASC	Rs. 5000/-	5-Oct-21	Ongoing

### Research Publications (Indexed)

#### International

- **Sasikala C**, Dr. D. Geetharamani & Swetha N, **Isolation and Characterisation of Principle Bioactive compounds from Ulva fasciata** Indo Global Journal of Pharmaceutical Sciences. Vol.12. pp 134-140. 4-02-2022 (indexed in UGC – CARE Journal List).
- Lalitha A, Amirdhavarshan S, Bharath Kumar S, Kanushika Sri J and **Sasikala C**. Microalgal Diversity. International Journal of Research and Analytical Reviews (IJRAR). Volume 9, Issue 1, pp 900-912, 29-Jan-22.
- Sharmila R, Tamil Arrasi, Narmatha Devi G, Prasanth K, **Sasikala C**. Macroalgal Diversity. International Journal of Research and Analytical Reviews (IJRAR). Volume 9, Issue 1, pp 823-840, 29-Jan-22.
- Moses Fernandez A, **Sasikala C**. Antibacterial and phytochemical analysis of Cinnamon bark (*Cinnamomum zeylanicum*) extract against clinical pathogens. International Journal of Pharmaceutical Research and Applications, Volume 6, Issue 6, pp 306-310, 27-Nov-21.
- Kavipriya D, **Sasikala C**. Characterisation and Formulation of Cosmetic Product from the Seaweed *Eucheuma Spinosum*, International Journal of Creative Research Thoughts, Volume 9, Issue 8, pp 196-210, Aug 2021.
- Nathiya E, **Sasikala C**. Fermentation of Amla Juice by Probiotic Lactic acid bacteria, International Journal of Creative Research Thoughts, Volume 9, Issue 8, pp 167-172, Aug 2021.
- Mynumathi Maragatham, Swathi Selvaraj, **Sasikala Chenniyappan**. A Study on Algae Diversity in Different Aquatic Area around Coimbatore, International Journal of All Research Education and Scientific Methods, Volume 9 Issue 5, pp 1000-1004, May 2021.
- **C. Sasikala**, D. Geetharamani, Swathi, Invitro screening of Anticandidal activity of microalgae *Dispora cuneiformis*, Invitro screening of Anticandidal activity of microalgae *Dispora cuneiformis*, Volume 5 Issue 6, pp 2455-2631, June 2020.
- Evetha K, **Sasikala Chenniyappan** & Geetharamani Durairaj Bioremediation of dairy effluent and mass production of algal biofertilizer International Journal of Scientific Development and Research. Vol. 5. Issue.6, pp.131-135, June 2020.

- Mynumathi Maragatham, **Sasikala Chenniyappan**, Geetharamani Durairaj, Designing Media from Domestic waste to enhance growth of *Chlorococcum humicola* and its application of Mosquito control, Vol.5 Issue 5. pp 102-111, May 2020.
- Evetha K, **Sasikala Chenniyappan** & Geetharamani Durairaj **Extraction of pigment from Pomegranate (*Punica granatum*) flower used for various applications** International Journal of Pharmacy and Biological Sciences. Vol. 10. Issue.1,pp.93-98, 2020.(UGC approved journal)
- **Sasikala C** & Dr. D. Geetharamani **Study on Bioactive compounds of *Jania rubens* against Methicillin and Vancomycin Resistant *Staphylococcus aureus*** International journal of Pharmaceutical Sciences and Drug Research. Vol.11.issue.6 pp. 409-415, 2019 (indexed in UGC Care list).
- **Sasikala C** & Dr. D. Geetharamani **Comparative study on antimicrobial activity of seaweeds** Asian journal of pharmaceutical and clinical research. Vol.10.issue12. pp. 384-386. 13-Sep-17 (indexed in Scopus and UGC approved ).
- **Sasikala C** and Dr. S.S. Sudha. **Phycoremediation of textile dyeing effluents with algal species from Aquatic origin.** Scrutiny International Research Journal of Microbiology and Biotechnology (SIRJ-MBT). Vol.2.issue.1.pp.7-18. 28-Feb-2015. pp.82-96. 2016. ISBN:13:978-81-932645-9-1.

### National

- **Sasikala C, Geetharamani D and Amuthavalli**, Antibacterial activity of *Jania rubens* from gulf of Mannar, south coast of India **Indian Journal of Natural Products and Resources** Vol. 12(3), September 2021, pp. 451-458 (indexed in Scopus and UGC approved).
- **Sasikala C** and Geetharamani D. **Antimicrobial activity of Seaweeds against Human pathogenic Organisms** IAAM proceedings pp.82-96. 2016. ISBN:13:978-81-932645-9-1.
- **Sasikala C, Jaya Prasana K and Tamil selvi** “**Isolation and Identification of *Flavobacterium multivorum* from marine samples and characterizing their major pigment Zeaxanthin for its applications**”. ISHM 12 Research Paper Proceedings (DBT and ICMR sponsored), pp. 328–339. 2012. ISBN:978-1–4507–5165–0.

## Presentations in Conference

- **“Investigation of Antibacterial activity of *Caulerpa toxifolia* on Human pathogens”** in National Level Seminar on the “Foodborne Pathogenesis and its Biocontrol”, School of Biotechnology, Dr. G. R. Damodaran College of Science (Autonomous), Coimbatore, 10-Jan-19 & 11-Jan-19.
- **“Seaweed – An absolute Nutritional Supplement”** in two day National Conference on Microbial Biotechnology for Sustainable Agriculture and Food Safety (NMSFS 2017) organized by Department of Microbiology and Biotechnology, Karpagam University on 27-July-17 & 28-July-17.
- **“Health care”** in the National level technical symposium on “Innovations in Biotechnology for Sustainable Development – Clean and Green Technology” (Evogen 2K16) organized by the department of Biosciences and technology, Karunya University on 18-Oct-16 & 19-Oct-16.
- **Antibacterial activity of seaweeds on human pathogens**, National Conference at CME National Seminar on Advances in Basic and Clinical immunology, Department of Zoology, Bharathiar University, Coimbatore, 15-Sep-15 & 16-Sep-15.
- **Isolation and characterization of algal species from aquatic origin for dye degrading efficiency**, National seminar on Bioprospecting for Today’s World, Department of Microbial Biotechnology, Bharathiar University, Coimbatore, 8-Jan-14.
- **Decolourisation of textile dyeing effluents using algal species isolated from aquatic origin**, 11<sup>th</sup> IAAM National Conference on “Recent Developments in Microbiology, Biochemistry and Biotechnology”, P. S. G. College of Arts and Science College, Coimbatore, 29–Nov-13 & 30-Nov-13.
- **Probiotics**, Dr. GRD College of Science, Coimbatore, 2008.
- **State Level Symposium on Advancements in Biosciences**, Tiruppur Kumaran College for Women, Tiruppur, 9-Jan-08.
- Poster on **“Application on Nanotechnology”**, National seminar on Emerging scenario in Microbial Biotechnology, KSG College of Arts and Science, Coimbatore, 2007.

- **Model of Methane production**, First Youth Agricultural Science Congress, Tamilnadu Agricultural University, Coimbatore, 15-Feb-07.
- **Production of Genetically Modified Crops**, ACME Association, Tiruppur Kumaran College for Women, Tiruppur, 28-Sep-06.

### Participation in Conference

- Online Conference on “**Prevalent and Prospective Paradigms in Machine learning for Applications in Biology**”, Nirmala College for Women (Autonomous), Coimbatore, 24-Feb-22 & 25-Feb-22.
- **Genomics and proteomics in Bioprospecting – role in health care development**, Department of Biotechnology, Dr. N. G. P. Arts and Science College, Coimbatore, 21-Dec-16.
- DBT sponsored the National Conference on “**Changing Disease Profile: Challenges Facing Basic and Translational Research in India**” organised by the Department of biochemistry at Dr. N. G. P. Arts and Science College (Autonomous), Coimbatore on 5-Oct-16 & 6-Oct-16.
- **Production and Applications of Microbial Products in Diverse Sectors** (PAMPDS - 2016), Department of Microbiology, Selvamm Arts and Science College (Autonomous), Namakkal, 6-Apr-16 & 7-Apr-16.
- Indian Association of Applied Microbiologists “**Sustainability, Challenges and Advances in Biological sciences**”, Muthayammal College of Arts and Science, Namakkal, 18-Dec-15 & 19-Dec-15.
- National Conference on “**Biotechnology – Present and Future**”, Department of **Biotechnology**, Dr. N. G. P. Arts and Science College, Coimbatore, 26-Sep-13 & 27-Sep-13.
- One day National Conference on “**Recent Trends in Medicinal Plants and Their Products**” Department of Biochemistry and Clinical Laboratory Technology, Dr. N. G. P. Arts and Science College, Coimbatore, 18-Sep-13.

- National level conference on “**Bio-Medical Waste Management**” Department of Hospital Administration, Dr. N. G. P. Arts and Science College in association with Confederation of Indian Industry, Coimbatore, 28-Sep-12.
- National Level Conference on “**The Role of Informed Consent in Clinical Decisions and Research in Hospitals**” Department of Hospital Administration, Dr. N. G. P. Arts and Science College, Coimbatore, 26-Aug-11.
- State level symposium on “**Advancements in biosciences**”, Tirupur Kumaran College for women, Tirupur, in 2008.

### Participation in Seminars

- **Food borne pathogenesis and its biocontrol**, School of Biotechnology, Dr. G. R. Damodaran College of Science (Autonomous), Coimbatore, 10-Jan-19 & 11-Jan-19.
- National Seminar on “**Production and Applications of Microbial Products in Diverse Sectors (PAMPDS - 2016)**” Department of Microbiology, Selvamm Arts and Science College (Autonomous), Namakkal, 6-Apr-16 & 7-Apr-16.
- **Modern Scenario in Nanomedicine**, Department of Biochemistry and Clinical Laboratory Technology, Dr. N. G. P. Arts and Science College, Coimbatore, 22-Sep-11.
- **Current Scenario in Life Sciences**, Kongu Arts and Science College, Erode, 26-Sep-08.
- National Seminar on “**Microbial Technology MT-‘08**” Department of Microbiology, Dr. G. R. Damodaran College of Science, Coimbatore, 19-Mar-08 & 20-Mar-08.

### Participation in Workshop

- Two day workshop on “**NGS; 16S Metagenome Sample to Data**” Ganga Orthopedic Research and Education Foundation. Coimbatore, 17-Dec-21 & 18-Dec-21.
- National Level Workshop on **Molecular Diagnostics for Pathogenic Bacteria – IV**, Institutional Biosafety Committee, BIT and Molecular Diagnostics and Bacterial

- Pathogenomics Research Laboratory, Department of Biotechnology, Bannari Amman Institute of Technology, Sathyamangalam, 22-June-19.
- **Hands on Training in Animal Tissue Culture Techniques** under DBT Star College Scheme, Department of Biotechnology, Dr. N. G. P. Arts and Science College (Autonomous), Coimbatore, 30-Mar-19.
  - International Workshop sponsored by DST-DAAD-PPP on **Health Risk Assessment of Nanoparticles**, Faculty of Basic and Applied Science and Biosciences, Dr. N. G. P. Arts and Science College (Autonomous), Coimbatore, 5-Dec-18 to 7-Dec-18.
  - Two day national workshop on “**Prospects and Challenges in Algal Studies**” organized by The research and postgraduate department of Botany, Catholicate College, Pathanamthittam, Kerala Sponsored by KSCST on 5-Oct-18 & 6-Oct-18.
  - Science Academies Lecture Workshop on “**Biodiversity and Bioprospection**” sponsored by IASc Bengaluru, INSA New Delhi and NASI, Allahabad Organized by PG and Research Department of Microbiology, Hindusthan College of Arts and Science on 2-Mar-18 & 3-Mar-18.
  - Science Academies Lecture workshop on “**DNA Technologies in Revisiting Biology**”, Department of Biochemistry, Dr. N. G. P. Arts and Science College (Autonomous), Coimbatore, 27-July-17 to 29-July-17.
  - One day workshop on **Analysis of spectral data** organized by Centre for research and Department of Chemistry at Dr. N. G. P. Arts and Science College (Autonomous), Coimbatore on 30-Jan-17.
  - **Science Academies Lecture workshop on Interdisciplinary approach of Research in life sciences**, Department of Zoology, PSGR Krishnammal College for Women, Coimbatore, 19-Dec-14 & 20-Dec-14.
  - **Clinical laboratory training**, PSG Institute of Medical Sciences and Research, Coimbatore, 17-May-06 to 31-May-06.
  - **Training programmes on Chromatography and Electrophoresis techniques**, AWE Care Biotech Research Division, Erode, 19-Dec-07 to 22-Dec-07.
  - **Training programme on “Preparation of Value Added Products from sea foods**, Karunya University, 25-July-08.



- **Industrial training**, Aavin Cooperative Milk Producers Union Ltd, Erode, 5-Jun-06 to 14-Jun-06.

### Participation in Orientation Programme / Short Term Courses

- UGC sponsored a short term course on **Research Methodology** conducted by UGC – Human Resource Development Center, Bharathiar University held from 18-Jan-18 to 24-Jan-18.
- **Diploma in UNIX & C**, CSC Computer Education, Tiruppur, 10-Aug-16 to 11-Dec-16.

### Participation in Faculty Development Programme

- Seven day Online Faculty Development Programme on **“Research Methodology and Pedagogy for Tertiary Education”** Faculty Development Cell and IQAC, Dr. N.G.P. Arts and Science College, Coimbatore, 15-June-21 to 21-June-21.
- Seven Day Faculty Development Programme on **“NAAC Revised Accreditation Framework and OBE Assessment Methodology”** Faculty Development Cell and IQAC, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-19 to 2-June-19.
- Seven Day Faculty Development Programme on **“Quality Measures in Higher education**, Dr. N.G.P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.
- One day workshop on **Revised Assessment and Accreditation Framework of NAAC** organized by Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore on 27-Oct-18.
- NAAC sponsored a two days national workshop on **“Curriculum Enrichment in Higher Education”** in Periyar University, Salem on 28-Mar-16 & 29-Mar-16.
- Faculty Development Programme on **“Emotional Intelligence”** conducted by ICT Academy of Tamilnadu, Chennai and Dr. N. G. P. Arts and Science College, Coimbatore on 19-Jan-16 & 20-Jan-16.
- National conference on **“Emerging Education Models for 21<sup>st</sup> Century Learners** (NCEEM - 2015), Association of Principals of Colleges of Bharathiar University jointly with UGC – Human Resource Development Centre of Bharathiar University at Dr. N. G. P. Arts and Science College, 1-Aug-15.

## Conference / Seminar / Workshop Organized

- Organizing Member, **International Seminar on Perspectives of Nanotechnology in Medical Applications**, Department of Microbiology, Dr. N. G. P. Arts and Science College (Autonomous), Coimbatore, 27-Nov-21.
- Organizing Member, **National Symposium on Graduate Research – 20**, Department of Biochemistry, Biotechnology, Microbiology and Food Science and Nutrition, Dr. N. G. P. Arts and Science College (Autonomous), Coimbatore, 21-Feb-20 & 22-Feb-20.
- Organizing Member, DST – SERB sponsored National Seminar on **Computing Platforms for Biological Big Data Analytics**, Department of Information Technology and Department of Microbiology, Dr. N. G. P. Arts and Science College (Autonomous), Coimbatore, 5-Feb-20 & 6-Feb-20.
- Organizing Member, 10<sup>th</sup> Louis Pasteur Memorial National Symposium on “**Nanotechnology in Drug Delivery – A tool for Biology and Medicine**” (PSNDD–2017), Department of Microbiology, Dr. N. G. P. Arts and Science College, Coimbatore, 15-Sep-17.
- Organizing Member, **DBT Inspire Internship Science Camp**, Dr. N. G. P. Arts and Science College, 26-Dec-16 to 30-Dec-16.
- Organizing Member, 14<sup>th</sup> National conference of IAAM on “**Transitional and Translational Scenarios in Biological Sciences**”, Dr. N. G. P. Arts and Science College, Coimbatore, 9-Sep-16 & 10-Sep-16.
- Organizing Member, VIII Louis Pasteur Memorial Symposium on “**Causatives and Curatives of Infectious Diseases (CCID - 2015)**”, Department of Microbiology, Dr. N. G. P. Arts and Science College, Coimbatore, 19-Aug-15.
- Organizing Member, **Cervical Cancer Awareness Programme among Cotton Mill Women Workers**, Department of Microbiology catalysed and Sponsored by TNSCST Chennai under the Dissemination of Innovative Technology.

- Organizing Member, VII Louis Pasteur Memorial Symposium on **Momentous Microbes from Menace to Marvel – PSMM 2014**”, Department of Microbiology, Dr. N. G. P. Arts and Science College, Coimbatore, 20-Aug-14.
- Organizing Member, VI Louis Pasteur Memorial National symposium on **“Perception of Microbes in Human Health Environment (PSPM - 2013)”**, Department of Microbiology, Dr. N. G. P. Arts and Science College, Coimbatore, 4-Aug-13 & 5-Aug-13.
- Organizing Member, Louis Pasteur Memorial International symposium on **“Harnessing Microbes for Human Health and Resource Recuperation”**, Department of Microbiology, Dr. N. G. P. Arts and Science College, Coimbatore, 22-Aug-12
- Organizing Member, **Science Expo 2011**, Department of Microbiology, Dr. N. G. P. Arts and Science College, Coimbatore, 27-Sep-11 to 29-Sep-11
- Organizing Member, IV Louis Pasteur Memorial National symposium on **“Biopharmaceuticals – Their applications in Disease Prevention and Health Promotion (NSBP 2011)”** Department of Microbiology, Dr. N. G. P. Arts and Science College, Coimbatore, 4-Aug-11 & 5-Aug-11.

#### **Acted as Invited Speaker /Resource Person**

- **Mrs. C. Sasikala** has been invited as Resource person for **“Alumni Elite Carnival (2021-22)”** to deliver a talk on **“Bioprospecting”** organized by Department of Microbiology, **Tiruppur Kumaran College for Women** on 6-Aug-21.

#### **Editor in Newsletter**

- **Sasikala C**, Managing Editor, Faculty of Biosciences Newsletter 2019-2020, Vol. 1(1), ISBN Number: 978-81-951892-2-9.
- **Sasikala C**, Managing Editor, Faculty of Biosciences Newsletter June 2018- May 2019, Vol. 1(1), ISBN Number: 978-81-938118-3-2.

#### **Online Courses completed**

- Cell Culture Technologies (8 week) Feb-Apr 2020, Indian Institute of Technology, Kanpur.

### Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Indian Association of Applied Microbiologists	Life-time	2016 onwards

### Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Best Outgoing Award	Tiruppur Kumaran College for Women, Tirupur – 87.	2009

### Recognition National / International

Nature of Recognition	Organization / Institution	Year
Bharathiar University Rank (III) Holder in M.Sc., Microbiology	Tiruppur Kumaran College for Women, Tirupur – 87.	10-Feb-10
Proficiency holder in Post graduation	Tiruppur Kumaran College for Women, Tirupur – 87.	2008 -2009
Proficiency holder in Post graduation	Tiruppur Kumaran College for Women, Tirupur – 87.	2007 -2008