

Name : Dr. C. Sasikala
Designation : Associate Professor
Department : Microbiology
Qualification : M. Sc., M. Phil., Ph.D., PGDQA.
Experience : Teaching - 12 years 6 months, Industry - 2 Years
Area of Specialization(s) : Marine Microbiology
Email (Official ID) : sasikalac@drngpasc.ac.in



Academic Qualifications

Degree	Branch	College Name	Year of Graduation
Ph.D.	Microbiology	Dr. N.G.P. Arts and Science College, Coimbatore	2022
M.Phil.	Microbiology	Dr. N.G.P. Arts and Science College, Coimbatore	2013
PG	Microbiology	Tiruppur Kumaran College for Women, Tiruppur	2009
UG	Microbiology	Tiruppur Kumaran College for Women, Tiruppur	2007

Additional Qualifications

Dip. / Cert.	Area of Specialization	Institution / University / Agency Name	Year
PG Diploma	Quality Assurance	Tiruppur Kumaran College for Women, Tiruppur.	2009
Diploma	UNIX & C	CSC Computer Education, Tiruppur	2016

Grants Received

Event Title	Agency	Amount	Date
Screening for antimicrobials of seaweeds from coastal area of south India against plant pathogens	TNSCST	₹ 10,000	26-Apr-17
Screening for antimicrobial activity of seaweeds isolated from south Indian coast against human pathogens	UGC Minor Research Project	₹ 2,80,000	Mar-14

Projects

Project Title	Agency	Amount	Duration	Status
Screening for antimicrobials of seaweeds from coastal area of south India against plant pathogens	TNSCST	₹ 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	₹ 2,80,000	2014-16	Completed
Antagonistic activity of <i>Nyctanthes arbour tristis</i> against fungal pathogen	Management of Dr NGPASC	₹ 5000	5-Oct-21	Ongoing

Research Publications (Indexed)

International

- Sangavi T, Nishasree S, Parthasarathi C, Praveena R, Vijaykumar L, Abineshwar R & Sasikala C, **Profiling of Microbes from Curd**, Journal of University of Shanghai for Science and Technology Vol.25. issue 4, pp 162-170. April-23 (indexed in Scopus & UGC CARE). (DOI: 10.51201/JUSST/23/04102)
- Monalisha S & Sasikala C, **Bioethanol Production Green Waste Using**, World Journal of Pharmacy and Pharmaceutical Sciences. Vol.12. issue 4, pp 1437-1450. 02-Mar-23 (indexed in Scopus).
- 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*) extracted 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 Areas 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***, International Journal of Scientific Development and Research. 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**, International Journal of Scientific Development and Research. 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.issue 12. pp. 384-386. 13-Sep-17 (indexed in Scopus and UGC approved).
- Sasikala C and Dr. S.S. Sudha. **Phyco remediation 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

- Nandhini M, Sasikala C and Karthicraj C, **Cultivation of Oyster Mushroom - *Pleurotus ostreatus* using fruit peel**, Journal of Emerging Technologies and Innovative Research, Vol (9), Iss (9), September 2022, ISSN: 23495162, pp:217-222.
- 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

- **“Preparation of Topical wound Healing ointment using *Tridax procumbens*”** in International conference on “Recent Innovations in Health and Biological Sciences (ICRIHBS 2023)” organized by PSG College of Arts and Science, Coimbatore in association with PSG CARE & Indian Immunologicals Ltd., Hyderabad on 14-July-23 & 15-July-23.
- **“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, Coimbatore, 10 & 11-Jan-19.

- **“Seaweed – An absolute Nutritional Supplement”** in Two-day National Conference on Microbial Biotechnology for Sustainable Agriculture and Food Safety, Department of Microbiology and Biotechnology, Karpagam University on 27 & 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 & 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**, 11th IAAM National Conference on “Recent Developments in Microbiology, Biochemistry and Biotechnology”, P. S. G. College of Arts and Science College, Coimbatore, 29 & 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, Tamil Nadu 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, Coimbatore, 24 & 25-Feb-22.
- **Genomics and proteomics in Bioprospecting – role in health care development**, 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**” Dr. N.G.P. Arts and Science College, Coimbatore on 5-Oct-16 & 6-Oct-16.
- **Production and Applications of Microbial Products in Diverse Sectors** (PAMPDS - 2016), Department of Microbiology, Selvam Arts and Science College, Namakkal, 6 & 7-Apr-16.
- Indian Association of Applied Microbiologists “**Sustainability, Challenges and Advances in Biological sciences**”, Muthayammal College of Arts and Science, Namakkal, 18 & 19-Dec-15.
- National Conference on “**Emerging Education Models for 21st 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.
- National Conference on “**Biotechnology – Present and Future**”, Dr. N.G.P. Arts and Science College, Coimbatore, 26 & 27-Sep-13.
- One day National Conference on “**Recent Trends in Medicinal Plants and Their Products**” Dr. N.G.P. Arts and Science College, Coimbatore, 18-Sep-13.
- National level conference on “**Bio-Medical Waste Management**”, 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**”, 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

- One day National Seminar on **National Credit Framework: Credit Transfer Policy**, Institution of Eminence and Human Resource Development Centre, University of Hyderabad, 10-Feb-23.

- **Food borne pathogenesis and its biocontrol**, School of Biotechnology, Dr. G. R. Damodaran College of Science, Coimbatore, 10 & 11-Jan-19.
- National Seminar on “**Production and Applications of Microbial Products in Diverse Sectors (PAMPDS - 2016)**”, Selvam Arts and Science College, Namakkal, 6 & 7-Apr-16.
- **Modern Scenario in Nanomedicine**, 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**”, Dr. G. R. Damodaran College of Science, Coimbatore, 19 & 20-Mar-08.

Participation in Workshop

- NAAC Sponsored Two-day National Level Online Workshop on Quality Assessments and Accreditation in HEIs", Sathyabama Institute of Science and Technology, Chennai, 27-June-22 & 28-June-22.
- Two-day workshop on “**NGS; 16S Metagenomic Sample to Data**”, Ganga Orthopedic Research and Education Foundation. Coimbatore, 17 & 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, Coimbatore, 30-Mar-19.
- International Workshop sponsored by DST-DAAD-PPP on **Health Risk Assessment of Nanoparticles**, Dr. N.G.P. Arts and Science College, Coimbatore, 5 to 7-Dec-18.
- One-day workshop on **Revised Assessment and Accreditation Framework of NAAC**, Sri Ramakrishna Mission Vidyalaya College of Arts and Science, Coimbatore, 27-Oct-18.
- Two-day National Workshop on “**Prospects and Challenges in Algal Studies**”, Catholicate College, Pathanamthitta, Kerala, Sponsored by KSCST, 5 & 6-Oct-18.
- Science Academies Lecture Workshop on “**Biodiversity and Bioprospection**” sponsored by IASc Bengaluru, INSA New Delhi and NASI, Allahabad, Hindusthan College of Arts and Science, 2 & 3-Mar-18.

- Science Academies Lecture workshop on “**DNA Technologies in Revisiting Biology**”, Dr. N.G.P. Arts and Science College, Coimbatore, 27 to 29-July-17.
- One day workshop on **Analysis of spectral**, Dr. N.G.P. Arts and Science College, Coimbatore, 30-Jan-17.
- NAAC sponsored a two-day national Workshop on “**Curriculum Enrichment in Higher Education**”, Periyar University, Salem, 28 & 29-Mar-16.
- **Science Academies Lecture workshop on Interdisciplinary approach of Research in life sciences**, PSGR Krishnammal College for Women, Coimbatore, 19 & 20-Dec-14.
- **Clinical laboratory training**, PSG Institute of Medical Sciences and Research, Coimbatore, 17 to 31-May-06.
- **Training programmes on Chromatography and Electrophoresis techniques**, AWE Care Biotech Research Division, Erode, 19 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 to 14-Jun-06.

Participation in Orientation Programme / Short Term Courses

- Completed **HACCP Level 3 Certificate course** conducted in Sep, 2023 through **AVT Academy for Professional Education**.
- UGC sponsored a short-term course on **Research Methodology** conducted by UGC – Human Resource Development Center, Bharathiar University held from 18 to 24-Jan-18.

Participation in Faculty Development Programme

- NPTEL-AICTE Faculty Development Programme on **Genetic Engineering: Theory and Application** (12 weeks) Jul-Oct 2023, Indian Institute of Technology, Guwahati.
- Professional Development Workshop on **Digital Creativity Skills as Part of Adobe Academic Essentials program**, 16-Aug-23.
- Twelve-day online Faculty Development Programme on “**Entrepreneurship**”, DST NIDHI, Amrita Centre for Entrepreneurship, 17-July-23 to 29-July-23.
- Five-day Faculty Development Programme on “**Outcome Based Education**”, 17 to 21-Jun-23, Dr. N.G.P. Arts and Science College, Coimbatore.

- Seven-day Online Faculty Development Programme on “**National Education Policy – Challenges and Opportunities in Higher Education**”, Hindusthan College of Arts and Science, Coimbatore, 13 to 21-Feb-23.
- Seven-day Online Faculty Development Programme on “**Research Methodology and Pedagogy for Tertiary Education**” Dr. N.G.P. Arts and Science College, Coimbatore, 15-Jun-21 to 21-Jun-21.
- Seven-day Faculty Development Programme on “**NAAC Revised Accreditation Framework and OBE Assessment Methodology**”, Dr. N.G.P. Arts and Science College, Coimbatore, 27-May-19 to 2-Jun-19.
- Seven-day Faculty Development Programme on “**Quality Measures in Higher education**”, Dr. N.G.P. Arts and Science College, Coimbatore, 3 to 9-Dec-18.
- Faculty Development Programme on “**Emotional Intelligence**” conducted by ICT Academy of Tamil Nadu, and Dr. N.G.P. Arts and Science College, Coimbatore on 19 & 20-Jan-16.

Conference / Seminar / Workshop Organized

- Organizing member, **XV Louis Pasteur National Symposium on Microbial Prospecting and Entrepreneurship (MPE-2023)**, Department of Microbiology, Dr. N.G.P. Arts and Science College, Coimbatore, 22-Sep-23.
- Department member in implementation and synchronization of activities under **Star College Scheme** between 2018-23.
- Organizing Secretary, **XIV Louis Pasteur International Symposium on Role of Multidisciplinary Research in Microbiology for Sustainable Development (RMSD-2023)**, Department of Microbiology, Dr. N.G.P. Arts and Science College, Coimbatore, 09-Mar-23 & 10-Mar-23.
- Organizing Member, **International Seminar on Perspectives of Nanotechnology in Medical Applications**, Department of Microbiology, Dr. N.G.P. Arts and Science College, 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, Coimbatore, 21 & 22-Feb-20.

- Organizing Member, DST – SERB sponsored National Seminar on **Computing Platforms for Biological Big Data Analytics**, Dr. N.G.P. Arts and Science College, Coimbatore, 5-Feb-20 & 6-Feb-20.
- Organizing Member, 10th 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 to 30-Dec-16.
- Organizing Member, 14th 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 catalyzed 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 & 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 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 & 5-Aug-11.

Acted as Invited Speaker /Resource Person

- Resource person - **Alumni Elite Carnival (2021-22)** and Invited Speaker on **Bioprospecting**, Department of Microbiology, Tiruppur Kumaran College for Women, 6-Aug-21.

Editor in Newsletter

- Sasikala C, Managing Editor, Faculty of Biosciences Newsletter 2020-2021, Vol. 1(1), ISBN Number: 978-81-957091-3-7.
- 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

- Genetic Engineering: Theory and Application (12 weeks) Jul-Oct 2023, Indian Institute of Technology, Guwahati.
- Introduction to Cell Biology (8 weeks) Aug-Oct 2022, Indian Institute of Technology, Madras.
- 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	2009
Best Ph. D thesis Award (Sri Nalla Gounder Research and Innovation Awards)	Dr. N.G.P. Arts and Science College, Coimbatore.	2023

Recognition National / International

Nature of Recognition	Organization / Institution	Year
Bharathiar University Rank (III) Holder in M.Sc. Microbiology	Tiruppur Kumaran College for Women, Tirupur	10-Feb-10
Proficiency holder in Post graduation	Tiruppur Kumaran College for Women, Tirupur	2008-09
Proficiency holder in Post graduation	Tiruppur Kumaran College for Women, Tirupur	2007-08