

Name: Dr. S. Sasikala

Designation: Associate Professor

Department: Clinical Laboratory Technology

Qualification: M.Sc., M.Phil., Ph.D

Experience: Teaching: 12 years

Area of Specialization(s): Clinical Biochemistry



Email (Official ID): sasikala@drngpasc.ac.in

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph. D	Biochemistry	Bharathiar University, Coimbatore	2021
M.Phil.	Biochemistry	Bharathiar University, Coimbatore	2010
M.Sc	Biochemistry	PSG College of Arts and Science, Coimbatore	2009
B.Sc	Biochemistry	Dr N.G.P Arts and Science College, Coimbatore	2007

Additional Qualifications

Diploma Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
Certification	ORACLE	Bharathiar University	2007
Certificate of merit	Food Preservation	PSG College of Arts and Science College, Coimbatore	2008
Elite Certification	Research Writing	NPTEL, MHRD	2018
UGC sponsored Refresher course	Biochemistry and Biotechnology	Bharathidasan University, Trichy	2022
Certification	Human health and diseases, Molecular Basis of Inheritance, Human reproduction, Evolution	Infosys Springboard	2023
International certificate course - Distinction	Prokaryotes – An Overview, Bioanalytical Techniques	Sacred Heart College, Tirupattur	2023, 2024
AICTE Training and Learning (ATAL) Academy	Unlocking the intricacies of immuno-oncology: innovation, insights and future indications	Karpagam Academy of Higher Education	2025
UGC – MMTTC Short Term Course	Development of Multimedia Packaging	Bharathiar University MMTTC, Coimbatore	2025

Research Guidance

Programme	Completed
M.Sc (PG)	2
B.Sc (UG)	41

Research Publications

International

- Sasikala. S, J. Dharshini, S. A. Mohammed Risal, S. Bagyalakshmi and M. Vinitha, **Formulation and Evaluation of Herbal Ointment Containing *Euphorbia heterophylla*, *Nyctanthes arbor-tristis* and *Tridax procumbens* leaves extract**, Journal of Xidian University, Volume 17, Issue 7, 2023, 1066-1076, ISSN No:1001-2400 (Indexed in Scopus)
- S. Sasikala, N. Gowri, S. Mohamed Arshad, S. Sandhiya and J. Shobanaa Sri, **Formulation and Evaluation of the Herbal Shampoo**, Journal of Xidian University, Volume 17, Issue 7, 2023, pp. 1287-1295, ISSN No:1001-2400 (Indexed in Scopus)
- S. Sasikala, N. Kannikaparameswari, **A Comparative Study on Phytochemical and in Vitro Antioxidant Activity of Herbal Formulation of *Achyranthes Aspera* and *Boerhavia Diffusa* Ethanolic Extracts**, Journal of University of Shanghai for Science and Technology. Vol. 25, pp. 102-117, February 2023, ISSN:1007-6735 (Indexed in Scopus)
- S. Sasikala, N. Kannikaparameswari, **Free radical scavenging activity of developed herbal formulation**. Drug invention today. Vol. 14, pp. 145, November 2019, ISSN: 0975-7619 (Indexed in Scopus)
- S.Sasikala, N. Kannikaparameswari, **Toxicity Studies of a developed nephroprotective polyherbal formulation in experimental rats**. Asian Journal of Pharmaceutical and Clinical Research, Vol. 12, no. 6, pp. 166-9, April 2019, ISSN: 2455-3891 (Indexed in Scopus)
- S. Sasikala, S. Gowri, M. Thiruselvi, **Antimutagenic activity of ethanolic extract of *Caralluma fimbriata***, World journal of pharmacy and pharmaceutical sciences, Vol. 5, No. 2, pp.582-587, January 2016, ISSN: 2278-4357, (Indexed in EBSCO, Google Scholar).
- S. Divyapriya, C. Sowmia S.Sasikala, **Synthesis of zinc oxide nanoparticles and**

antimicrobial activity of *Murraya Koenigii*. World journal of pharmacy and pharmaceutical sciences. Vol. 3, No.12, pp.1635–1645, December 2014, ISSN: 2278- 4357, (Indexed in Elsevier).

- Synthesis of Silver Nanoparticles using *Datura metel* seed extract and its antimicrobial activity International Conference on Modern Research in Biological Horizons” ICMRBH’24)”, Bharathidasan College of Arts and Science, ISBN-978-93-340-7590-8, 9 & 10 July 2024.

National

- Dr. S. Sasikala, S. Sandhiya and S. Bagyalakshmi. **Prevalance of hand hygiene among farmers.** International Conference on Recent Developments in Computational and Biological Sciences (ICRDCBS 2023), 10th March 2023, pp. 225, ISBN: 978-93-5813-341-7.
- Dharshini. J, Vinitha. M and S. Sasikala. **Antibacterial Activity of Ethanol Extract of *Tabernaemontana Orientalis* Flowers Against Tooth Decay,** XIV Louis Pasteur International Symposium on Role of multidisciplinary research in microbiology for Sustainable development (RMSD-2023), March 2023, pp. 91, ISBN-978-81-962322-5-2
- Dr. S. Sasikala, Dharshini. J, Mohammed Risal. **A. Isolation and Characterization of Pigment Producing Bacteria.** Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR—2023). March 2023, pp.105-106, ISBN-978-81-96322-7-6.
- Dr. S. Sasikala and Ms. M. Vinitha. ***In vitro* Anti-Microbial, Anti Diabetic and Anti Haemolytic activity of Piper betle and *Alternanthera sessilis*,** International conference on Confluence of Science and Technology, Oct-2022, pp.46, ISBN: 978-93-5759-836-1.
- Dr. S. Sasikala and C. Bharathan. **Biofuel,** ISCA sponsored National Conference on Reaching the Unreached through science and Technology- Concepts, Principles and Application of science and technology for nation building, 09-Oct -17 to 11- Oct -17.

Book Chapter

- Role of Phytomedicine in Cancer Prevention Dr. Thiruselvi. M, Dr. Kokila. S, Dr. Anbalagan. K and Dr. Sasikala. S “Emerging Trends in Therapeutic Agents From Medicinal Plants”, ISBN: 978-

81-966183-7-7

- Dr. S. Sasikala and Dr. C. Hemalatha. Bioinformatics in Bioscience and Bioengineering: Recent advances, applications, and perspectives. Computational Biology Research and Applications”, ISBN: 978-93-95423-243.
- Dr. S. Sasikala and Dr. C. Hemalatha. Clinical Biochemistry, Lab manual for UG students, Dr. N.G.P Arts and Science College, Coimbatore. 978-81- 564344-2-7
- Dr. S. Kokila, Dr. M. Thiruselvi and Dr. S. Sasikala. Biochemistry, Lab manual for UG

Patent

students, Dr. N.G.P Arts and Science College, Coimbatore, 978-81-961895-2-5.

Patent Publication - Application No.202441031970; Date of filing of Application :22/04/2024

Publication Date: 26/04/2024

Title of the invention: Formulation and Evaluation of Herbal Salve Containing Euphorbia, Heterophylla, Tridax Procumbens and Nyctanthes Tristis Leaf Extract.

Presentations in Conference

International

- **Synthesis of Silver Nanoparticles using *Datura metel* seed extract and its antimicrobial activity** International Conference on Modern Research in Biological Horizons” ICMRBH’24)”, Bharathidasan College of Arts and Science, ISBN-978-93-340-7590-8, 9 & 10 July 2024.
- **Liver function test in workers of garments industry**, International Conference on Translational Research Towards Attaining Good Health and Wellbeing for Sustainable Development, Dr.N.G.P. Arts and Science College, ISBN-978-81-971000-2-4, 9th March 2024.
- **Prevalence of pathogenic bacteria and hand hygiene among farmers**, International Conference on Translational Research Towards Attaining Good Health and Wellbeing for Sustainable Development, Dr.N.G.P. Arts and Science College, ISBN-978-81-971000-2-4, 9th March 2024.
- **Prevalence of hand hygiene among farmers**, International conference on recent developments in Computational and Biological Sciences, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, 10-Mar-2023
- **Antibacterial Activity of Ethanol Extract of *Tabernaemontana Orientalis* Flowers Against**

Tooth Decay, 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, 09-Mar-2023

- ***In vitro* Anti Microbial, Anti Diabetic and Anti Haemolytic activity of *Piper betle* and *Alternanthera sessilis***, International conference on Confluence of Science and Technology, Bharathidasan College of Arts and Science, Erode, 10-Oct-202.

National

- **Tumor markers**, UGC sponsored Refresher course in Biochemistry and Biotechnology, Bharathidasan University, Trichy, 07-Oct- 2022
- **Biofuel**, ISCA sponsored National Conference on Reaching the Unreached through science and Technology- Concepts, Principles and Application of science and technology for nation building, Kongunadu Arts and Science College, Coimbatore, 09-Oct -17 to 11- Oct -17.
- **Influence of VAM, AZO, PHOSPHO Bacteria on Cow Pea**, National conference on Innovative Approaches in Biosciences Organized by Department of Microbiology, Sree Narayana Guru College, Coimbatore, 12-Feb-15.
- **Copper nanoparticles synthesis from *Cascabelathevetia* leaves**, Biological Science – Emerging Challenges & Issues (NCBCI'19), Sri Ramakrishna College of Arts and Science for Women, Coimbatore, 16-Feb-19

Participation in Conference

International

International conference on Biology in 21st Century, Kongunadu Arts and Science College, Coimbatore, 4th – 13th Aug- 21

Indian rural Public Health and Non communicable disease, Kovai Medical Centre and Hospital, 6-Apr-19

Food protection, Kongu Engineering College, Erode, 26-Mar-18

National

Emerging Education Models for 21st Century Learners, Dr. N.G.P Arts and Science

College, Coimbatore, 1-Aug-15.

Transitional and Transational Scenarios, Department of Microbiology, Dr. N.G.P Arts and Science College, Coimbatore, 10-Sep-2016.

Momentous Microbes from Menace to Marvel 2014, Dr. N.G.P. Arts and Science College, Coimbatore, 20-Aug-14.

Ethical and Legal Issues in Healthcare Documentation, Dr. N.G.P. Arts and Science College, Coimbatore, 25-Feb-14.

Thrust Research in Modern Biosciences, P.S.G College of Arts and Science, Coimbatore, 24th & 25-Feb-2008.

Molecular basis of human disease: Diagnosis and treatment, Dr. N.G.P Arts and Science College, Coimbatore, 27-Feb-07 to 28-Feb-07.

Recent trends in Biochemistry, Dr. N.G.P Arts and Science College, Coimbatore, 23-Feb- 2005.

Participation in Workshop

IARP sponsored One day National Workshop on Beneficial Applications of Radiation Technology and Indian Nuclear Energy Programme, Dr. N.G.P. Arts and Science College, Coimbatore, 31.08.2023

National Workshop on Advance Cell Culture Techniques, Bharathidasan College of Arts and Science, Erode, 08-Feb-2023 to 09-Feb-2023

Basics in Bioinformatics, Department of Biochemistry, PSG College of Arts & Science, Coimbatore, 27-Feb-19.

Health Risk Assessment of Nanoparticles, Dr. N.G.P Arts and Science, Coimbatore on 05-07-Dec-18.

Publishing in premier journals, Publication in SCI & SCIE, Kumaraguru College of Technology, Coimbatore, 7-Dec-17 to 8-Dec-17.

Medicinal Mushroom Cultivation Training Programme, Kongunadu Arts and Science College, Coimbatore, 5-Oct- 17.

Recent Trends In Biological Sciences, Bharathidasan Arts and Science College Erode, 12-Sep-17 to 13-Sep-17.

Participation in Orientation Programme / Short Term Courses

- Diploma certificate course on Mental Health, Allison edu, May 2025
- Certificate course on Kayakalpa, The World Community Service Centre, 30-Nov-2024
- Certificate course on Human health and diseases, Infosys springboard, 27- Jan- 2023 Certificate course on Human reproduction, Infosys springboard, 27- Jan- 2023
- Certificate course on Molecular basis of inheritance, Infosys springboard, 07- Nov - 2022 Student's induction programme, Dr. N.G.P. Arts and Science College, Coimbatore, 17-Jul-19 to 08-Jul-2019.
- Student's induction programme, Dr. N.G.P. Arts and Science College, Coimbatore, 29-Jun- 18 to 30- Jun-18
- Student's induction programme, Dr. N.G.P. Arts and Science College, Coimbatore, 17-Jun-17
- Internship training programme on molecular biology and bioinformatics, Sourashtra College of Arts and Science, Madurai, 01-May-08 to 21-May -08
- Internship training programme on Clinical techniques, PSG Institute of Medical Science, Coimbatore, 4-Apr-05 to 25-Apr-05.
- International Short term certificate course on Prokaryotes – An overview, Sacred Heart College, Tirupattur, 03-Mar- 23 to 09 -Mar -23

Participation in Faculty Development Programme

One week Atal FDP on Unlocking the intricacies of immuno-oncology: innovation, insights and future indications, All India Council for Technical Education, 27th to 01st-2025.

5 days online FDP on " Advancement in Research and Innovation in Pharmacy " Bharath Institute of Higher Education and Research, Chennai, from 24th – 28th -June -2024.

Empowering Education for Innovation – A NEP Perspective, Centre for faculty development programme, Dr. N.G.P. Arts and Science, Coimbatore, 30-Jun-2023 – 04-Jul- 2023

Digital Creativity Skills, Adobe Academic Essentials Program, Dr. N.G.P. Arts and Science, Coimbatore, 19-Aug- 2023

ICT tools and innovative Teaching techniques, IOT academy, 29-Dec-2022 to 30-Dec- 2022

Research Methodology and Pedagogy for Tertiary Education, Dr. N.G.P. Arts and Science, Coimbatore, 15-Jun-2021 to 21-Jun-2021

Digital Teaching Techniques, ICT Academy, 03-Aug-2020 to 08-Aug-2020

Bio python - Spoken Tutorial Free Open-Source Software, Dr. N.G.P. Arts and Science, Coimbatore, 04-May-2020 to 10-May-2020

Teaching Learning Enhancement, Dr. N.G.P Arts and Science, Coimbatore, 11-Nov-19 to 20-Nov-19

NAAC Revised Accreditation Framework and OBE assessment methodology, Dr.N.G.P. Arts and Science, Coimbatore, 27-May-19 to 02-Jun-19.

Quality measures in Higher Education, Dr.N.G.P Arts and Science College, Coimbatore, 3-Dec-19 to 09-Dec-19.

Publishing in premier journals, Publication in SCI & SCIE, Kumaraguru College of Technology, Coimbatore, 7-Dec-17 to 8-Dec-17.

Conference / Seminar / Workshop Organized

- Organiser of Khorana Endowment Lecture, Dr. N.G.P. Arts and Science College, 27th -Mar-2025
- Organiser of One Day National Seminar on Indian Knowledge System, Dr. N.G.P. Arts and Science College, 21st -Jan -2025
- Organised and acted as resource person in the hands-on training to the Microbiology students, Dr. N.G.P. Arts and Science College, 7th – 8th -Jan- 2025
- Organiser, Extension activity on science awareness at a Govt School at Ganapathy on 26th-Feb-25
- Organiser, Awareness programme on Clinical lab technology at PNA Matric. Hr. Sec. School on at Velanaipatti, Coimbatore on 28th -Feb - 25
- Organiser, National Seminar on Integration of Traditional Indian Knowledge System into Modern Higher Education: NEP Perspective (ICSSRIKS2024), IQAC, Dr. N. G.P. Arts and Science College, 4th- 5th- July-2024
- Organiser, Exhibition on “Millets and its Products for Human Health” (in accordance to G20 submit, Govt. of India), Organized by Department of Microbiology & Department of Clinical Laboratory Technology (Under DBT - Star College Scheme), Dr. N.G.P Arts and Science College, 20-Sep-2023
- Organiser, Interdisciplinary Approaches on Dynamics of Bioscience Research (IADBR - 2023), Faculty of Biosciences, Dr. N.G.P Arts and Science College, 28-Mar-2023

- Organiser, DHR-ICMR Sponsored - One Day National Level Workshop on Advanced Artificial Intelligence (AI) Methods in Breast Cancer Diagnosis and Clinical Research Organized by Department of Computer Science with Cognitive Systems & Clinical Laboratory Technology, Dr. N.G.P Arts and Science College, 26- Nov- 2022
- Organiser, Webinar on the evolution and transformation of viruses, Clinical Laboratory Technology, Dr. N.G.P Arts and Science College, 28-Sep-2021
- Organiser, Webinar on Basic elements in GLP at research Arena, Clinical Laboratory Technology, Dr. N.G.P Arts and Science College, 14-Sep-2021
- Organiser, Webinar on Plastics – The environment and human health: Current Issues and Future Trends, Clinical Laboratory Technology, Dr. N.G.P Arts and Science College, 11- Jun-2021
- Committee member, National Workshop on Big Data Analytics in Clinical Research (BDACR - 21), 18-Mar-2021 to 19-Mar-2021
- Organiser, Webinar on Psychological Issues in Women's Life Cycle, Centre for Women and Gender development Cell, Dr. N.G.P Arts and Science College, 28-May-21
- Committee member, National Conference on Futuristic Approaches in Transformation of Bioscience Research - (FATBR- 2020), Dr. N.G.P. Arts and Science College, Coimbatore, 06-Mar-07-20.
- Committee member, State level seminar on Scientific Writing, Clinical Laboratory Technology, Dr. N.G. P Arts and Science College, 26-Feb-18
- Committee member, workshop on PCR and its Applications in disease Diagnosis, Clinical Laboratory Technology, Dr.N.G.P Arts and Science College, 12-Oct-17
- Committee member, Building Business Leaders in Life Sciences, Clinical Laboratory Technology, Dr. N.G.P Arts and Science College, 29-Sep-16.
- Resource Person, Inspire Internship Science Camp, Dr.N.G.P Arts and Science College, 25-Dec-17 to 29 -Dec-17.
- Organizing member, Inspire Internship Science Camp, Dr.N.G.P Arts and Science College, 24-Aug-15 to 28-Aug-15.

- Organising member, National Conference on Biopharmaceuticals in achieving health by 2020, Dr.N.G.P Arts and Science College, 10-Jul-15 to 11-Jul-15.
- Organising member, Inspire Internship Science Camp, Dr. N.G.P Arts and Science College, 21-Jul-14 to 25-Jul-14.

Membership in academic bodies

- Organising member, Inspire Internship Science Camp, Dr. N.G.P Arts and Science College, 18-Nov-13 to 22-Nov-13.
- Member of International association of academic plus corporate
- Society for Environmental and Sustainable Development, New Delhi
- Member in MERLOT, Internet Society

Awards and Recognition

- **Appreciation certificate** for working in NAAC C2 criterion, Dr. N.G.P Arts and Science College, A.Y 2020-21
- Secured **A Grade** in a refresher course sponsored by UGC - HRDC in Biochemistry and Biotechnology
- **Best Mentor award**, Dr. N.G.P Arts and Science College, Coimbatore.11-May-2022
- Member in BoS

Member in BoS

- Member of BoS in Clinical Lab Technology, Dr. N.G.P Arts and Science College, Coimbatore.

Editorial Board / Reviewer

- Acted as Peer- Reviewer of manuscripts in;
- Journal of Advances in Microbiology,
- Current Nutrition & Food Science,
- Asian Journal of Advances in Medical Science,
- International Journal of Environment and Climate Change, International Research Journal of Pure and Applied Chemistry,
- Uttar Pradesh Journal of Zoology,
- Journal of Complementary and Alternative Medical Research

Institutional Responsibilities

- IQAC Member
- Department CDC Member
- NAAC Criterion Member
- Admission Committee Member
- Class Tutor
- Website Committee member
- Digital Marketing Member
- Department Co-Ordinator of I- CAN club
- Co-Ordinator of Social and Outreach Activity Committee
- Member in Women and Gender Development cell
- Member in Scholarship Committee
- Member in Class Committee