

Name : Mrs.G.Lalitha

Department : Biochemistry

Designation : Assistant Professor

Qualification : M.Sc., (Ph.D.)

Experience : Teaching: 11 Years 3 months Research: 9 Years

Specialization(s) : Cancer biology, Medicinal plants, Clinical Biochemistry

Email Official ID) : lalitha.g@drngpasc.ac.in



Academic Qualifications

| Degree | CourseName | CollegeName | YearofPass Out |
|--------|--------------|--|--------------------|
| (Ph.D) | Biochemistry | RVS College of Arts and Science, Sullur (Bharathiar University) | Synopsis submitted |
| PG | Biochemistry | Karpagam College of Arts and Science, Coimbatore (Bharathiar University) | April 2005 |
| UG | Biochemistry | P.S.G. College of Arts and Science, Coimbatore (BharathiarUniversity) | April2003 |

Additional Qualifications

| Diploma/Vocational/Certification | Area of Specialization | Institution /University /AgencyName | Year |
|----------------------------------|------------------------------|--|------------|
| Certificate course in ADCA | Computer Applications | Spark Institute, Coimbatore | 2002 |
| Research Scholar | Seed Technology , Department | Institute of Forest Genetics and Tree Breeding IFGTB, Coimbatore | 2005- 2006 |

Research Publications

- Cytotoxicity study and insilico approach of lucenin2, Myo-inositol, α - D mannofuranoside isolated from ElaeagnusConfertaRoxb leaves, Journal of Xidian University, Vol.16, Issue 4, April 2022 (Indexed in Scopus, UGC -Group II).
- Mechanism underlying the inhibitory effect of ElaeagnusConfertaRoxb on TNF- α induced NF- κ B nuclear translocation in non- small lung cancer A549 cell line using Flow

cytometry, International Journal of Pharma Sciences and Research, Vol.11 No.11,Nov 2020, 1-9.(Research gate)

- In vitro Antioxidant activity and Fourier Transform Infrared Analysis of *Elaeagnus Conferta* Roxb. Leaf extract, Asian Journal of Pharmaceutical and clinical research, Vol 13, Issue 4, 2020, 50- 53.(Indexed in Elsevier EMBASE & EMBSCO)
- Molecular docking analysis of phytochemicals from ethanolic extract of *Crescentia cujete* with the auto inhibited parkin catalytic domain, Bioinformation 16(2): 189-195 (2020), DOI: 10.6026/97320630016189 (Indexed in Web of Science)
- GC-MS analysis of bioactive components on the leaves extract of *Elaeagnus conferta roxb*- International Research Journal of Pharmacy, 2019, 10 (4): 83- 89.(Indexed in EMBASE)
- Phytochemical Screening and GC-MS Analysis of Bio-Active Compounds in Ethanol Extract of *Crescentia cujete* Leaves- International journal of Pharmacy and Biological Sciences 2019; 9(3): 58-63.(Indexed in Google Scholar)
- Phytochemical screening and evaluation of antimicrobial activity, antioxidant activity, anticoagulant activity of leaves of *Andrographis paniculata*- International journal of Pharma and Biosciences, 2015,6(2),475-484.
- Cytotoxic effect of green synthesized silver nanoparticles using *Indigofera longiracemosa* on skin cancer skmel- 28 cell lines. International journal of preclinical and Pharmaceutical Research, 2015, 6(3), e- ISSN 2249- 7552
- Evaluation of phytochemical screening and extraction of lycopene from *Citrullus lanatus* by using Column Chromatography - International Journal of Phytopharmacy, 2015, 5(4) 2277-2928.
- Phytochemistry, GC MS analysis and Invitro cytotoxic activity of *Prunus Angustifolia* leaves against MCF -7 Breast cancer cell line. World journal of Pharmacy and Pharmaceutical science, 2015,4(10), 1489-1499.
- Pretreatments used for fruit biomass peel residue to yield ethanol production – Recent Research in Science and Technology, 2011, 3(11):87-90 ISSN 2076-5061.
- Use of Fruit Biomass Peel Residue for Ethanol Production – International Journal of Pharma and Biosciences vol 2/ Issue 2/ Apr- Jun 2011. pp 15-23.
- Production of Ethanol From Fruit Biomass Peel Using Immobilized *Trichoderma Viridae* Cells – Online Journal of Biotechnology Research Volume 2 Issue 2 pp.65-67, September- November 2010
- Biosorption Of Synthetic Dye Using Dead Fungal Biomass – Journal of Advanced Biotechnology Volume 10, Issue 3, pp.36-38, September 2010. ISSN:0973-0109.
- Antioxidant and Antibacterial activity of *Panchagavya* – Journal of Herbal Science and Technology Volume 6 pp.15- 17, April 2010.

- Phytochemical Screening of the *Plumeria rubra* and their Antioxidant Activities– Journal of Herbal Science and Technology Volume pp.14- 17, September 2010.
- Antimicrobial Activity and Preliminary Phytochemical screening of *Allium cepa*, *Allium sativum* and Citrus lemon – Journal of Medicinal Food Plants volume 1 (2) pp. 11-15, July – December 2009, ISSN 1947 - 3710.
- Hypoglycemic effect of *Basella rubra* streptozotocin-induced diabetic albino. Journal of Pharmacognosy and Phytotherapy volume 1 (2) , 025-030, August 2009 Academic Journal.

Presentations in Conference/ Seminars

- Biofuel from enzyme Xylanase – An outlook’ – Presented in National level Conference on “Frontiers in Enzyme Technology” at Karpagam Arts & Science College, Coimbatore, 15-16th November 2002.
- Screening of Amolytic enzymes from Actinomycetes’- Presented in National level Conference on “Frontiers in Enzyme Technology” at Karpagam Arts & Science College, Coimbatore, 15-16th November 2002.
- Applications of Novel Techniques on Lipase Enzyme’- Presented in National level Conference on “Frontiers in Enzyme Technology” at Karpagam Arts & Science College, Coimbatore, 15-16th November 2002.
- Renewable sources of energy’-Paper Presented in State Level Seminar at Sri G.V.G.Visalatchi College on Millennium, Udumalpet, 2nd Sep 2004.
- ‘Biosorption of synthetic dyes using (*Aspergillus niger*) dead fungal biomass’ - presented in National level Seminar “The factes of biotechnology” at CMS College, Coimbatore, 5th December 2006.
- ‘Turmeric and curcurmin: biological actions and medicinal applications’- presented in National Level Seminar on “Current trends in Advanced Biological Research (CTAB) – 2007”conducted by Nehru Arts and Science college, Coimbatore, 1st and 2nd Feb 2007.
- ‘Effect of garlic and red clover extracts on adenosine deaminase enzyme activities in’- presented in National Level Seminar on “Current trends in Advanced Biological Research (CTAB) – 2007”conducted by Nehru Arts and Science college, Coimbatore, 1st and 2nd Feb 2007.
- ‘Biodiversity and its value’- Presented in National Level Seminar on “Biodiversity and Conservation” conducted by Karpagam Arts and Science college, Coimbatore, 16th and 17th February 2007.
- ‘Biodiversity conservation strategies for the 21st century’- Presented in National Level Seminar on “Biodiversity and Conservation” conducted by Karpagam Arts and Science college, Coimbatore, 16th and 17th February 2007.
- ‘Biotechnology in environmental management’ - Presented in National Level Seminar on “Biodiversity and Conservation” conducted by Karpagam Arts and Science college, Coimbatore, 16th and 17th February 2007.

- ‘Crystallography gives insight into drug design’- Presented in International symposium on “Structural Bioinformatics- structure & Functions of Macromolecules” conducted by Sri Ramakrishna college of Arts & Science for women,Coimbatore, 12th January 2008.
- Phytochemical Screening and Evaluation of Antimicrobial activity, Antioxidant activity of leaves of Andrographis Paniculata, Presented in National seminar on Bioinformatics & Biopharmaceuticals (NSSB) conducted by Bharathiar University, Coimbatore, 3rd March 2015.
- Evaluation of Phytochemical Screening, Antibacterial, Antioxidant capsicum Annus, calotropis gigantean, Presented in National Conference on Avenues in Biotechnology- 2016 conducted by Nandha Arts and science college, Erode, Coimbatore, 17th Feb 2016.
- Characterization and Evaluation of Phytochemical Screening, Antioxidant activity on lablab purnuries, Presented in National Conference on Indigenous Medicinal Plants and their Therapeutic value- NCIMP – 2016,conducted by Karpagam University, Coimbatore on 18th& 19th August, 2016.
- Poster Presentation on STEM Teacher Training Workshop on Research – Based Pedagogical Tools (Level 1) organized by MHRD & DBT, IISER, Pune held during from 23rd – 26th Sep, 2018,West Bengal, Kolkata.
- Extraction of oil from Punica, Presented in National Conference on Futuristic approaches in Transformation of Biosciences Research, Faculty of Biosciences, Dr.N.G.P. Arts and Science College, Cbe.6- 7th March 2020.

Participation in Conference

National

1. National Symposium on ‘DRUG DISCOVERY- A NOVEL APPROACH’ Organized by the Department of Biochemistry on Sep 17th·2003at Karpagam Arts and Science College, Coimbatore-21
2. One day Crash course on Applied Bioinformatics conducted by VitallMallya Research Foundation, Bangalore,held on Sep 2006.
3. Fast Track Training Programme in Bioinformatics conducted by Department of Bioinformatics, AVIT on July 10th 2009.
4. National Conference on Herbal Medicine Organized by the Department of Botany, School of Life Sciences, Bharathiar University on Sep 8th and 9th 2010, Coimbatore.
5. 9th MDRF – UAB International Seminar on Prevention & Control of Non-Communicable Diseases,held on Feb 25-27, 2011 at Madras Diabetes Research Foundation, Chennai.
6. National level webinar on “Modern Trends in Chemical Sciences” Organized by Department of Chemistry, Karunya Institute of Technology and Sciences, Cbe, 12th Sep 2020.
7. National level webinar on Impact of COVID- 19 on Pharmaceutical Research and science organized by Society of Pharmaceutical Sciences and Research, 8th Jan 2021.

8. National level webinar on “Navigating Your Journey from Research to patent & how patent and publication differ” organized by Society of Pharmaceutical Sciences and Research, 18th April 2021.
9. National conference on Diagnosis, Management and Vaccination for COVID19 Organized by IQAC Collaboration with Marine Biotechnology and Young Academy of India, AMET Deemed to be University, 11- 13th May 2021.

Participation in Workshop

Workshop on Techniques in Biotechnology organized by Department of Biotechnology, Karpagam Arts & Science College on 15th & 16th Feb 2008, coimbatore.

One day Workshop on Research Methodology organised by Indian Society for Technical Education Chapter of AVIT on Nov 11th 2009, Chennai.

Lecturer workshop on “products from natural resources: prospecting and utilization” held during 27-29 July, 2011 in the School of bioscience and Technology, VIT University, Vellore- 14.

Workshop on “Biochemical & Molecular Techniques” organised by Abbes Biotech, Chennai & Department of Biochemistry held during 24.9.14 & 31.01.15, RVS college of Arts and Science, Coimbatore.

Science Academies Lecture Workshop on “ Biological Sciences in the 21st Century” organized by Department of Biochemistry, held on 23rd and 24th Jan 2015, PSG College of Arts and Science, Coimbatore.

Science Academies Lecture Workshop on “Bio- Prospecting the Bio- wealth” organized by Department of Biochemistry and Bioinformatics, held on 9th and 10th Jan 2017, Karpagam University, Coimbatore.

STEM Teacher Training Workshop on Research – Based Pedagogical Tools (Level 1) organized by MHRD & DBT, IISER, Pune held during from 23rd – 26th Sep, 2018, West Bengal, Kolkata.

Workshop on “Instrumentation Techniques” organised by Chromopark, Research centre & Department of Biochemistry held during 18th Dec 18, RVS college of Arts and Science, Coimbatore.

Workshop on “Effective Utilization of e- Resources in library” organized by NDLI & Srimathi Padmavathi Memorial Central Library held on 12th Nov, 2019, RVS college of Arts and Science, Coimbatore.

International Webinar on COVID-19 VACCINE DEVELOPMENT Department of Microbiology, Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi, 15.05.2020.

International Webinar on Bioinformatics in Microbiome Research & Climate, Biomes and India, PG Department of Chemistry (SSC), St. Mary’s College, Thoothukudi, 17.5.2020.

National level COVID - 19 Pandemic Awareness Quiz, Department of Science And Humanities, PPG INSTITUTE OF TECHNOLOGY, May 2020.

International Level E-Quiz on COVID-19 AWARENESS, DIAGNOSIS &

PREVENTION'Department of Zoology, Muqyyath Sha Sirguro Wakf Board College, Madurai, 20May 2020.

Nanobio incubation Facilities and DST funding oppurtunities conducted by Department of Biochemistry, Rathnavel Subramaniam College of Arts and Science, cbe. 16th May 2020.

E- workshop cum E- Quiz on "Positive Thought and the Ideal Life" Organized by Research commitee ,Mannar Thirumalai Naicker College (Autonomous), Pasumalai, Madurai, 29th May 2020.

Participation in Faculty Development Programme

- Attended Training programme on "Instructional Design and Delivery Systems" conducted by NITTR (National Institute of Technical Teachers Training & Research) at AVIT, Tamilnadu from 13th to 15th July 2009.
- Modules on Faculty development programme (PHASE II) conducted by the Centre for Innovation and Excellence, AVIT, from 8th to 10th Dec 2010.
- FDP Programme on Data science and Analytics organized by Department of Data science and Analytics, Sree Saraswathi Thyagaraja College & IBACUSTECH, Pollachi, 16- 22nd June 2021.

Delegate/Keynote speaker

Gave a talk on Heart Disease – The Silent Killer, Seminar on Biotechnology and Human welfare on May 28th2009, Department of Biotechnology, Vinayaka Missions University, Aarupadai Veedu Institute of Technology,Paiyanoor.

Editorial / Review Board Member

- Journal of Functional Foods - Reviewed Research article - Elsevier
- Asian Journal of Medicine and Health.
- Journal of pharmaceutical Research International

Membership in professional bodies

| Nameofthe ProfessionalBody | Nature of membership | Duration |
|---|-----------------------------|-----------------|
| Society of Biotechnologists. | Life-time | - |
| Healthcare and Biological sciences Research Association | Life-time | - |