

RESUME

- 1. Name** : Dr.V.SARATHA
2. Address (residential) : W/O R.Venkatesan,
No.98, Main Road,
Soorappallam,
Pattukkottai-614601
- Designation** : Assistant Professor
3. Department : Biochemistry
4. Age & Date of Birth : 40 & 03.06.1981
5. Area of Specialization : Biochemistry
6. Educational Qualifications : M.Sc., M.Phil., Ph.D.,

Exam Passed	Board/ University	Subjects	Year	Division/ Grade Merit Etc
High school	State	-	1996	64%
Higher Secondary	State	Maths with Biology	1998	65%
Bachelor's Degree (s)	Bharathidasan	B.Sc., Biochemistry	1998 - 2001	First Class, 64%
Master's Degree (s)	Bharathidasan	M.Sc., Biochemistry	2001- 2003	First Class, 66%
Research Degree (s)	Bharathidasan	M.Phil.,Biochemistry	2006- 2007	First Class, 76%
Others	University of Madras	Ph.D., Biochemistry	2007- 2012	-

Total Teaching Experience

S.No	Name of The Institution	From	To
1	Jaya College of arts & science,Chennai	26.06.2013	10.05.2015
2	STET Women's College, Mannargudi	19.06.2015	31.05.2022

Research Projects:

Details of the projects				
S. No.	Title of the Projects	Funding Agency	Fund (Rs. In lakhs)	Status Ongoing / Completed
1.	“Synthesis And Characterization of Silver Nano Particles From Ethanolic Extract Of <i>Erythrina Indica</i> And Evaluation Of Antiproliferative Effect On Breast Cancer Cell Line Mcf-7”.	UGC	1,18000	Completed
2.	Cytotoxic and Flow Cytometry Analysis of Cancer Cell Death Induced By the Ethanolic Extract of <i>Physalis Peruviana</i> Fruits	TNSCST	7,500	Completed
3.	Macro and Micro nutrient composition of some indigenous green leafy vegetables	Seed Money STET Women’s College (Auto),	10,000	Completed

Academic Staff College Orientation / Refresher Courses / NPTEL / SWAYAM Attended

Name Of the Course	Name of the Academic Staff College	Name of the university	Duration	Sponsoring agency if any
NPTEL Online Certification Human Molecular Genetics	Indian Institute of Technology, Kanpur	-	February - March (4 week course)	M HRD, Government of India
NPTEL Online Certification Introduction to Research Methodology	Indian Institute of Technology, Madras	-	February to April 2019 (8 week course)	M HRD, Government of India

Conferences attended & Paper presented-29

1. Participated on Regional Symposium on newer challenges in Laboratory Diagnosis for Life Style Diseases organized by Loyola College , Chennai on 17.12.2007-17.12.2007.

2. Presented a paper on “ Evaluation of antibacterial activity of gigantean latex extract in the “National Conference on Natural Products in Health and Disease” February 29th to March 2nd, 2008, Annamalai University.
3. Participated on “National Conference on New Frontiers and Current Trends in Biochemistry. October 18th 19th, 2008, University of Madras.
4. Presented a paper on Wound healing activity of calotropis gigantean latex extract in streptozotocin induced experimental diabetes rats.“ CSIR-ICMR-TNSCST sponsored National Conference on Diabetes Mellitus and Cancer” December 19th and 20th, 2009, Annamalai University.
5. Participated and presented a paper on National Conference on “Emerging trends in Biological Research” February 21st 22nd, 2011, University of Madras.
6. National Conference on”Phytochemicals in Medicinal Plants and Food, July 30th, 31st, 2015.
7. International Conference on Natural Products and Biomedical Technology January 10-12, 2011, Annamalai University.
8. Presented a paper Ameliorating effect of Lupeol in arthritis induced experimental rats.“ International Conference on Natural Products and Biomedical technology” 10.12.2011, Annamalai University.
9. Participated on National Conference on “The Role of Free Radicals in Health and Disease” January 27 and 28th, 2012, University of Madras.
10. Participated and presented a paper on Effect of triterpenes from gigantean latex on lipid peroxidation in arthritic rat in the National Conference on Phytochemicals in medicinal plants and food sponsored by TNSCST and BIOELIXIR organized by the Department of Biochemistry held on 30th & 31st July 2015 at Bharathidasan University Constituent College for Women, Orathanadu.
11. Participated and presented a paper on “Anti-arthritis activity of latex in Freund’s complete adjuvant induced arthritic rats.” in the International Conference on Clinical Research (ICCR-2016) organized by Department of Biochemistry, Shrimati Indira Gandhi College, Tiruchirappalli on 25th January 2016.

12. presented a paper on “Anti-arthritis activity of Lupeol in Freund's complete adjuvant induced arthritic rats” in the International Conference on Clinical Research (ICCR-2016) organized by Department of Biochemistry, Shrimati Indira Gandhi College, Tiruchirappalli on 25th January 2016.
13. Participated National Symposium on Medicinal and Aromatic Plants (NASYMP'17) St. Joseph's College (A), Trichy on 15.02.2017.
14. Participated and presented a paper on Isolation and characterization of nanoparticles from *Eclipta*. in the National Seminar on Herbal Drug Development organized by the PG & Research Department of Biochemistry, S.T.E.T Women's College, Mannargudi on 22.09.17.
15. Participated and presented a paper on *In vitro* anti-inflammatory activity of *Calotropis procera* extract in the International Conference on the New Vistas in Life Sciences organized by Holy Cross College (A), Tiruchirappalli on 11.09.2018.
16. Participated and presented a paper on Preliminary Phytochemical Screening of Selected medicinal plant. in the National Seminar on Current Perspectives and Challenges in Biological Sciences (NCPCBS) organized by Rajah Serfoji Government College (A), Thanjavur on 06.03.18.
17. Participated in the Department of Biotechnology, Ministry of Science & Technology ICSSR sponsored one day National Seminar cum Workshop on Biological and Medical Applications of Foldscope and Mycorrhizal Commercial Productions organized by the Research Department of Microbiology, M.R. Govt. Arts College, Mannargudi on 31.01.19.
18. Participated and presented a paper on *In vitro* Anti-inflammatory Potential of leaf extract of *Erithrina indica* in the National Conference on Recent Trends in Chemical Biology and Therapeutics organized by Department of Biochemistry and Chemistry, Idhaya College for Women, Sarugani on 09.08.2019.
19. presented a paper on “Synthesis of silver Nanoparticles using *Erithrina indica* leaves extract and their characterization” in the International Conference on Emerging trends and innovations in chemistry organized by the Department of chemistry, S.T.E.T Women's College, Mannargudi on 20.08.2019.
20. presented a paper on “Anticancer potential of medicinal plant in cancer cell” in the International Conference on Novel Approaches in Cancer Research and Therapy organized

by the PG & Research Department of Biochemistry, S.T.E.T Women's College, Mannargudi on 26.09.2019.

21. Participated and presented a paper on Survey on Prevalence of Anaemia through screening amongst the adolescent Girls in and around Sundarakkottai relation to Economics and Food Habits in the National Conference on Next Generation Nutrition organized by Department of Nutrition and Dietetics, S.T.E.T Women's College, Mannargudi on 27.09.2019.
22. Presented a paper on "Evaluation of Cytotoxic Activity of Silver Nanoparticles against Normal and Cancer Cells and Its Anticancer Potential through Induction of Apoptosis" in International conference on cancer inferno and its prevention strategies, 22.02.2019. Periyar EVR College (A), Tiruchirappalli.
23. Participated and presented a paper on In vitro antimicrobial activity of methanolic extract of *E.Indica* against selected microorganism for its broad spectrum antimicrobial activity in the International Seminar on Microbial Interventions for the Welfare of Human Being organized by PG and Research Department of Microbiology, S.T.E.T Women's College, Mannargudi on 09.08.2019.
24. Participated in the One day International Seminar on Intellectual Property Rights-Emerging Issues and Challenges Organized by PG & Research Department of Commerce and Intellectual Property Rights Cell (IPR Cell), S.T.E.T Women's College, Mannargudi on 11.09.2019.
25. Participated and presented a paper on Anti-microbial activity of leaf extract of *Amaranthus dubius* in the International Conference on Natural Therapeutics (ICNT-2020) organized by Dharmapuram Gnanambigai Govt. Arts College (W), Mayiladuthurai on 06.02. 2020.
26. Participated and presented a paper on HPTLC analysis of black grapes in the national semkinar on Molecular basis of cancer and prevention organized Department of Life Sciences, PRIST University, Thanjavur, 18.02.2020-19.02.2020.
27. Participated and presented a paper on medicinal plant review on national symposium on Recent trends in molecular diagnosis and nanotherapeutics organized by Department of Biochemistry Adhiparasakthi College of Arts and Science, Kalavai.
28. Participated and presented a paper entitled Antioxidant potential spadix in the International Conferences on Phytopharmaceuticals-An Emerging Platform to Sustainable Health Care (ICPEPSH-2024)" organized by PG and Research Department of

Biochemistry in association with IQAC, S.T.E.T. Women's College (Autonomous), Sundarakkottai, Mannargudi on 25.09.2024 & 26.09.2024.

29. Participated and presented a paper entitled Phytochemical analysis of extracts of Spadix in the Two days International Conference on Recent Research Trends in Physical & Biochemical Sciences (RRTPBS) 2024 organized by Department of Biochemistry, Chemistry & Physics, Idhaya College for Women, Sarugani, Sivagangai on 19.09.2024 & 20.09.2024.

Seminars attended and Paper presented -12

1. Participated on one day national seminar on herbal analysis and applications, held at central for herbal science, University of Madras, Chennai.
2. Regional Symposium on Newer Challenges in Laboratory Diagnosis for Life Style Disease" December 17th and 18th, 2007. Loyola College, Chennai.
3. Presented a paper on "Antidiabetic activity of calotropis latex extract in the National Seminar on Phytotherapeutics, organized by the Department of Biochemistry, St. Joseph's College, Trichy. 29.03.2010-30.03.2010.
4. Participated on National Seminar on Phytotherapeutics. 29th & 30th March 2010, St. Josephs College, Trichy
5. Delegate National Seminar on "Cellular and Molecular Neurobiology in Health and Disease" February 11th and 12th, 2011, University of Madras.
6. Participated and presented a paper on "Synthesis of silver nanoparticles from *E.Indica* in the International seminar on Recent Trends in Biosciences held on 21st & 22nd July 2016 organized by the Department of Biochemistry and Chemistry, Idhaya College for Women, Sarugani.
7. Participated in the One Day International Seminar on Chemical Biology organized by PRIST University, Vallam Thanjavur on 29.12.2016.
8. Participated in the International Seminar on Frontiers in Biological Sciences organized by St. Joseph's College (A), Trichy on 16.12.2016.

9. presented a paper on “Synthesis of silver Nanoparticles using *Erithrina indica* and evaluate their antibacterial activity” in the National Seminar on Herbal Drug Development organized by the PG & Research Department of Biochemistry, S.T.E.T Women’s College, Mannargudi on 22.09.17.
10. Participated in the International Seminar on Frontiers in Biological Sciences (ISFBS’16) organized by St.Joseph’s College (A), Trichy on 16.12.2016.
11. Participated in the One Day International Seminar on Chemical Biology organized by PRIST University, Vallam Thanjavur on 29.12.2016.
12. Participated and presented a paper on GC-MS analysis of bioactive compounds in methanolic extract of *Cassia auriculata* in the National Seminar on Recent Trends in Chemistry organized by the Department of Chemistry, S.T.E.T Women’s College, Mannargudi on 20.12.17

Workshops Attended-8

1. Participated in the Science Academies Lecture Workshop on Current Scenario in Life Sciences organized by the PG & Research Department of Microbiology, PG & Research Department of Biochemistry and Department of Nutrition and Dietetics, Sengamala Thayaar Educational Trust Women’s College, Mannargudi on 11.10.17 & 12.10.17.
2. Participated in the International Workshop on Biochemical & Bioinformatics Techniques organized by Shrimathi Indira Gandhi College, Trichy on 05.09.17.
3. Participated in the Two-day National Level Workshop Inculcation and Innovation organized by the Department of Biochemistry, J.J.College College Arts and Science (Autonomous), Pudukkottai on 22nd and 23 rd February 2018
4. Participated in the International Workshop on Research Methodology organized by the PG & Research Department of Economics and Department of Business Administration, Sengamala Thayaar Educational Trust Women’s College, Mannargudi on 04.01.2019.
5. Participated in the Two-day Workshop on public financial management system organized by IQAC on 26th and 27th 2019.
6. Participated in thNational level Workshop-Research and Related Tools organized by CMS College of Science And Commerce, Coimbatore. 16.04.21 &17.04.21

7. International Workshop on Research Methodology. 04.01.2019. Sengamala Thayaar Educational Trust Women's College, Mannargudi
8. Participated in the International five days Workshop on AI in Education organized by the Sengamala Thayaar Educational Trust Women's College, Mannargudi 16th Dec-20th Dec.

Faculty Development Programme attended -24

1. Participated in the Faculty Development Programme on From Good to Great and non verbal Communication for teachers on 26.09.2015 organized by S.T.E.T Women's College, Mannargudi.
2. Participated in the Faculty Development Programme on "Office Management" on 31.12. 2016 organized by S.T.E.T Women's College, Mannargudi.
3. Participated in the Faculty Development Programme on "Effective Communication Skills" on 10.04.2017 organized by S.T.E.T Women's College, Mannargudi.
4. Participated in the Faculty Development Programme on "Education Psychology for Effective Teaching" on 11.04.2017 organized by S.T.E.T Women's College, Mannargudi.
5. Participated in the Faculty Development Programme on "Workshop on Speaking Skills" on 18.04.17 organized by S.T.E.T Women's College, Mannargudi.
6. Participated in the Faculty Development Programme on "New Techniques in Environmental Cleaning" Tamil University, Thanjavur on 26.04.17 organized by S.T.E.T Women's College, Mannargudi.
7. Participated in the Faculty Development Programme on "Effective Scientific Paper Writing" on 05.05.2017 organized by S.T.E.T Women's College, Mannargudi.
8. Participated in the Faculty Development Programme on "How to Plan, Draft and Complete the Research problem" on 06.05.2017 organized by S.T.E.T Women's College, Mannargudi.
9. Participated in the Faculty Development Programme on Intellectual Property Rights (IPR) on 08.07.2019 organized by S.T.E.T Women's College, Mannargudi.
10. Participated in the Faculty Development Programme on Introduction to Research on Feb-Apr-2019 organized by NPTEL-AICTE.
11. participated in a Three day Faculty Development Programme on "Improving Your Research Visibility – Research Impact and Metrics" jointly organized by Research and Development Cell and Internal Quality Assurance Cell from 11th May to 13 th May 2020.

12. participated in the 3-Days Faculty Development Programme on “RESEARCH METHODOLOGY” through Webinar conducted by the PG & Research Department of Biotechnology, BonSecoursCollegefor Women, Thanjavur from 29th April to 1 st May, 2020.
13. Participated in the Faculty Development Programme on Higher Education Post Covid -Random Thoughts, organized by Internal Quality Assurance Cell on 11.05.2020.
14. Participated in the Faculty Development Programme on “Future of Examinations: Bloom's Taxonomy and Multiple Assessment Tools” conducted by G. T. N. Arts College (Autonomous), Dindigul, Tamilnadu on 08.06.2020.
15. Participated in the Faculty Development Programme on “Effective Online Teaching Methods” from June 8 - 14, 2020 organised by the Department of Civil Engineering, Dr.N.G.P IT, and Coimbatore.
16. Participated in the Two Days Faculty Development Programme on “Sensitisation on Intellectual Property Rights” on June 10 & 11, 2020, organised by Internal Quality Assurance Cell.
17. Participated in the one week Faculty Development Programme on Research Methodology organised by KNM College 2020.
18. Faculty Development Programme on ICT Enabled Campus organised by Sengamala Thayaar Educational Trust Women June 16th, 2021 to June 17th, 2021
19. Participated in the one week Faculty Development Programme on ICT Tools for Teaching and Learning on 7.062021.
20. "Entrepreneurship Opportunities In Organic Terrace Farming And Value Addition" held on 26th and 27th June organized by Department of Nutrition and Dietetics, Sengamala Thayaar Educational Trust Women's College,(A), Sundarakkottai,Mannargudi.
21. Participated in the Faculty Development Programme on “understanding pedagogy and research output” from 23.06.2021 to 24.06.2021 organized by PG and Research Department of Biochemistry in Association with IQAC.
22. Participated in the “Application of tools and techniques in research methodology” Organized by Department of Physics, Sengamala Thayaar Educational Trust Women's College (Autonomous), Mannargudi on 23rd& 24th June 2021.
23. Participated in the A five day online International Faculty Development Programe on” Emerging Technologies and Future trends” organized by Department of Computer Science &Computer Applications, Forum for Information Technology organized by Layol College (Autonomous), Chennai from 15.10.2024 to 19.10.2024.

24. Participated in the A five day online International Faculty Development Programe on Leveraging canva for Effective powerpoint Presentation on 20.05.2025 organized by ACT Academy.

Research Articles Published-12

1. Evaluation of wound healing potential of *Calotropis gigantea* latex studied on excision wounds in experimental rats. V. Saratha, S. Subramanian and S. Sivakumar. Medicinal Chemistry Research, 2010 19:936–947
2. Evaluation of antibacterial activity of *Calotropis gigantea* latex extract on selected pathogenic bacteria. S. Subramanian and V. Saratha. Journal of Pharmacy Research, 2010, 3(3): 517-521
3. Evaluation of antifungal activity of *Calotropis gigantea* latex extract: an in vitro study. Venkatesan Saratha and Sorimuthu Pillai Subramanian. International Journal of Pharmaceutical Sciences and Research (2010), Vol. 1 (9):88-96.
4. Isolation and Characterization of Lupeol, a triterpenoid from *Calotropis gigantea* latex. V. Saratha, S. Iyyam Pillai S. Subramanian, International Journal of Pharmaceutical Sciences Review and Research 10 (2): 2011; 54-57.
5. Lupeol, a triterpenoid isolated from *Calotropis gigantea* latex ameliorates the primary and secondary complications of FCA induced adjuvant disease in experimental rats. V.Saratha and S. Subramanian, Inflammopharmacology, 20(1)2012, 27-375.
6. Phytochemical Screening, HPTLC Analysis and *invitro* Antioxidant Potential of Ethanolic Extract of Nelumbo Nucifera Seeds. Volume 7, Issue 1, World Journal Of Pharmacy And Pharmaceutical Sciences, 12 Dec. 2017.
7. Synthesis of Silver Nanoparticles from *Gymnema Sylvestre* Leaf And Evaluation of Their *Invitro* Antidiabetic Activity. *World Journal of Pharmaceutical Research*. 6(15): 693-705. 2277-7105.
8. Screening of *In vitro* Antioxidant activity of Methanolic leaf extract of *Musa Paradisiaca*. *International Journal of Research and Analytical Reviews*. 2019. 6(1); 1228-1234. ISSN 2340 – 1209
9. Evaluation of *In vitro* Antioxidant Activity and High-Performance Thin-Layer Chromatography Finger Printing Analysis of *Physalis peruviana* Fruits. *International Journal of Pharmaceutical and Drug Research*. 2020;12(4):384-389.
10. V Saratha, S Subasri, S Usharani Synthesis of silver nanoparticles from *Andrographis paniculata* and evaluation of their antibacterial activity. 6 (1) 62018
11. VS S. Sivaranjani Phytochemical Screening, Hptlc Analysis And In Vitro Antioxidant Potential of Ethanolic Extract of Nelumbo Nucifera Seeds. World Journal o f Pharmacy and Pharmaceutical Sciences 7 (1), 768-7782017

12. S Sivaranjani, V Saratha, Phytochemical Screening, Proximate, Antioxidant, Antimicrobial And Anti Inflammatory Activity of *Nelumbo Nucifera*

Training Programmes Attended-1

1. Participated in the training programme on Meenakshi Lab CME- May 7th 2016

Book Chapters Published-2

V.Saratha, Phytochemical Analysis and Pharmacological Potential of Cardamom *Nova Science Publishers, New York.*

Assessment Of Proximate, Nutritional And Mineral Contents In *Solanum Virginianum*,

11. Research Experiences:

Dissertation and Thesis submitted

Ph.D. in Biochemistry, University of Madras, 2012

Thesis Title: Biochemical Studies on The Wound Healing And Antimicrobial Properties of *Calotropis Gigantea* Latex Extract and Evaluation of Antiarthritic Potential of Lupeol, A Triterpenoid Isolated and Characterized From The Latex Studied In Adjuvant- Induced Arthritic Rats.

M.Phil. in Biochemistry, Bharathidasan University, 2007

Dissertation Title: Gestational Diabetes Mellitus

M.sc., in Biochemistry, Sengamalathayar Educational Trust Women's College, Bharathidasan University, 2003

Dissertation Title: Research on the Antimicrobial Activity of Medicinal Plants.

12. Programmes attended

Biofarm, Ponni Agro Park, Tropical Bio Science and Tropical Agro System, Coimbatore to uplift knowledge in the fields of Clinical Biochemistry, Molecular Biology and Biotechnology.

Personal Profile:

Gender : Female
Husband's Name : R. Venkatesan

Date of birth : 03-06-1981
Marital Status : Married.
Passport number : F3159356
Email id : sarathabiochem@gmail.com
Mobile No. : 9344210950

I hereby declare that the above information provided by me is true to the best of my knowledge.

Yours faithfully,
Dr. V. Saratha