

**Name:** Dr. P. SAGADEVAN,

**Designation:** Assistant Professor

**Department:** Biotechnology

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

**Experience: Teaching:** 5 years

**Area of specialization(s):** Microbial Biotechnology & Plant Biotechnology

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#### Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D	Biotechnology	Kongunadu Arts and Science College, Affiliated to Bharathiar University Coimbatore.	2017
M. Sc	Biotechnology	CMS college of Science and Commerce Affiliated to Bharathiar University Coimbatore.	2011
B. Sc.	Biotechnology	AVVM Sri Pushpam College, poondi Affiliated to Bharathidasan University thanjavur.	2009

#### Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
-	-	-	-

#### Research Guidance

Programme	No.of Scholars	
	Completed	Pursuing
M.Phil	-	-
Ph.D	-	-

## Research Publications (Indexed)

1. Sagadevan P, Suresh, S. N., S. Rathishkumar, V. Rajeshwari, Bindu Jacob and Syama M. Suresh, Phytochemical, antibacterial and antifungal activity of methanolic leaf extract of *Andrographis paniculata* (Burm f.) wall ex nees (Acanthaceae), *Journal of Research in Antimicrobials*, 2( 1): 001-004.(2011).
2. Suresh.S.N, S.Rathish kumar, V.Rajeshwari, P.Sagadevan, S.Gayathri and D. Vithya Eswari, Studies on phytochemical composition and potential of methanolic leaf extract of *Mentha ravnensis*.Linn. *International. Journal of Pharma Research and Development*.1-4, (2012).
3. Suresh, S. N., S. Rathishkumar, V. Rajeshwari, P. Sagadevan and S. Gayathri, In-vitro antioxidant activity of methanolic extract of *Artemisia niligirica* (Clarke) leaves. *World Journal of Pharma and Phrmacetal Science*.1 (3): 1028- 1033, (2012).
4. Suresh, S.N., S. Rathishkumar, V. Rajeshwari and P. Sagadevan, Phytochemical analysis and antimicrobial potential of *Abutilon indicum* (Malvaceae). *International Journal of Pharma Research and Development* 4(2): 132-135, (2012).
5. Suresh, S. N., S. Rathishkumar, V. Rajeshwari, P. Sagadevan, S. Gayathri and D. Vithya Eswari, Phytochemical analysis and antibacterial potential of *Cardiospermum halicacabum* Linn. (Sapindaceae). *International Journal of Pharmacy & Life Sciences* 3 (12): 2209-2212. (2012).
6. Sagadevan, P. Suresh, S. N., S. Rathishkumar, S. Gayathri and D. Vithya Eswari, Anticancer activity of methanolic leaf extracts of *Andrographis paniculata* (nees) and *Cardiospermum halicacabum* (Linn) against breast cancer cell line (MCF-7). *International journal of pharm. life science. (IJPS)* 4 (9) 2983-2986. (2013).
7. Sagadevan.P, R. Rajakumar. S. N. Suresh, R. Ranjithkumar, P. Karthikeyan and S. Rathish Kumar, Isolation and mass inoculum production of *Azospirillum* from Paddy field soil. *International Journal of Biosciences and Nanosciences*. 1(6): 141-145, (2014).
8. Arun. A, Karthikeyan. P\*, Sagadevan. P, Umamaheswari. R and Rex Peo. R, Phytochemical screening of *Sesbania grandiflora* (Linn). *International Journal of Biosciences and Nanosciences*. 1 (2) 33-36, (2014).

9. Sagadevan .P, S. N. Suresh, S. Rathish Kumara and Revathy Rajan A.R. Studies on Phytochemical composition, antibacterial and antioxidant potential of methanolic stem extract of *Cardiospermum halicacabum* L (Sapindaceae). *International Journal of Biosciences and Nanosciences*. (1)1: 12-18, (2014).
10. Sagadevan. P, S. N. Suresh, S. Rathish Kumara and. Revathy Rajan A.R. Studies on Phytochemical composition, antibacterial and antioxidant potential of methanolic leaf extract of *Menthas arvensis*. *International Journal of Biosciences and Nanosciences*. (1)1: 22-27. (2014).
11. A.R. Revathy Rajan, S. N. Suresh, P. Sagadevan and S. Rathish kumar, Regulation of rfg1 (Repressor of Filamentous Growth) Gene Expression *Candida albicans* Treated with *Andrographis paniculata* (Nees). *International Journal of Advanced and Innovative Research* 3(9) 2278- 7844. (2014).
12. D. Vithya Easwari, S. N. Suresh, P.Sagadevan and S. Rathish Kumar, Studies on Phytochemical Composition and Anticancer Potential of Methenolic Leaf Extract of *Tecomella Undulate*, *Journal of Pharmaceutical and Biological Research*, 2 (2): 148-152, (2014).
13. Syama. M. Suresh, S. N. Suresh, Bindu Jacob, Sagadevan. P and S. Rathish Kumar. To Study the Anticancer and Apoptotic Activity of *Mentha arvensis*. Linn in ROS Induced Buccal cells. *International Journal of Advanced and Innovative Research*, 3(9): 2278-7844, (2014).
14. Sagadevan. P, S. N. Suresh, S. Rathish kumar and Rajeshwari. V. In- vitro antioxidant activity of methanolic extract of *Andrographis paniculata* leaves. *Journal of Pharmaceutical and Biological Research*, 2 (2): 129-131, (2014).
15. D.Vithya Easwari, S. N. Suresh, P.Sagadevan and S.Rathish Kumar, Studies on phytochemical analysis and antioxidant activity of methanolic leaf Extract *Tecomela undulate*. *Journal of Pharmaceutical and Biological Research*, 2(2): 143-147, (2014).

16. Sengodan Raja, Dinesh Bheeman, Ranjithkumar, Rajamani, Sagadevan Pattiyappan, Sathish Sugumaran, and Chandar Shekar Bellan. Synthesis, Characterization and Remedial Aspect of BaTiO<sub>3</sub> Nan particles Against Bacteria. *Nanomed. Nanobiol* (1)1–5, (2015).
17. Sathish Sugumaran, Mohd Noor Bin Ahmad, Mohd Faizal Jamlos, Chandar Shekar Bellan, Sagadevan Pattiyappan, Ranjithkumar Rajamani, Rathish Kumar Sivaraman. 2015. Transparent with wide band gap InZnO nano thin film: Preparation and characterizations *Optical Materials* 49:348– 356. (2015). impact factor 0.29
18. Ranjithkumar. R.K. Selvam\*, P. Sagadevan and B. Chandar Shekar Green Route: An approach for synthesis of silver and gold nanoparticles, *International Journal of Biosciences and Nanosciences*, 2 (8): 185-191. (2015).
19. Bindu Jacob, Suresh Natarajan\*, Sagadevan Pattiyappan, Rathish Kumar sivaraman and Syama. M, Suresh, Study on anticarcinogenic and apoptotic properties of methanolic stem extract of *Cardiospreum halicacabum* in MCF 7 cell line *Journal of Scientific and Innovative Research*; 4(1): 43-48.(2015).
20. P. Sagadevan and S. N. Suresh, In- Vitro Antifungal and Anticancer Efficacy of Methanolic Leaf Extract of *Andrographis Paniculata* (NEES). *International Journal of Pharm Tech Research*, 7(1), 148-155. (2015).
21. Rathishkumar Sivaraman, Suresh natarajan, Sagadevan pattiyappan, GC-MS Analysis of *Artemisia vulgaris* Linn. *International Journal of Biosciences and Nanosciences* 2 (5): 105-109. (2015).
22. Sagadevan. P S. N. Suresh, R. Ranjithkumar, S. Rathish Kumar, S. Sathish and B. Chandar Shekar, Traditional use of *Andrographis paniculata*: Review and Perspectives, *International Journal of Biosciences and Nanosciences*2(5):123-131(2015).
23. Rajmohan, D, R. Ranjithkumar, K. Logankumar, P. Sagadevan, B. Chandrashekar and R. Yamuna, Green Route Synthesized Silver Nanoparticles: As Potential Antibacterial Material, *Kongunadu Research journal*. 3(1): 73-75 (2016).

24. Senthilkumar, R.P., V. Bhuvaneshwari, S. Sathyavimal, Minu Venugopal, P. Sagadevan, V. Malayaman and R. Ranjithkumar. Green chemistry approach silver nanoparticles via *Sidarthombifolia* L as antibacterial material, National Conference on Developing Scenario in Applied Science and Communicative English (PRAYAF-2016) on 21st& 22nd April 2016 organized by Kumara guru College of Technology, Coimbatore, Tamilnadu, India. ISBN: 978- 93-85477-83-6. Pp.145-148 (2016).
25. Sagadevan Pattiyappan, Suresh Natarajan, Ranjithkumar Rajamani, Rathish Sivaraman, Chandar Shekar bellan, Evaluation of *C. albicans* induced wound healing activity of methanolic leaf extract of *Andrographis paniculata*. *Indo American Journal of Pharmaceutical Research*, 01; 7483-7493, (2017).
26. K. Tharshanapriya<sup>1\*</sup>, P. Sagadevan, K. Jayaramjayaraj<sup>1</sup>, V. Bhuvaneshwari<sup>2</sup>, S.N. Suresh, J. Pavithra, S. Sarah, B. Chandar Shekar and R. Ranjith Kumar, health hazards of pulp and paper industrials workers. *Indo American Journal of Pharmaceutical Research* 7; 157-163 (2017).
27. K. Tharshanapriya, P. Sagadevan, K. Jayaram jayaraj and V. Bhuvaneshwari, Occupational risk Assessment using Biochemical and Genotoxicity Studies among construction painters. *Indo American Journal of Pharmaceutical Sciences* 4(6); 1559-64,(2017).
28. R. Ramya, P. Sagadevan and K. Jayaramjayaraj, Genetic Characterization and the Development of Multiplex PCR for Common Respiratory viruses, in Chennai during September 2013 to January 2014 .*International Journal of Chem. Tech Research* .10 (9) 388-401,(2017).
29. Dhivyavarshni R, Sagadevan P, Jayaram Jayaraj K, Chandar Shekar B, Ranjith Kumar R, Rathish Kumar S. Studies on phytochemical screening, Antibacterial potential and Hemostatic activity of *Tridax procumbens*. *Drug discovery* Vol 12, 1-6 (2018).
30. Sruthi , Sagadevan P, Jayaram Jayaraj K, Chandar Shekar B, Ranjith Kumar R, Rathish Kumar S. In vitro antioxidant potential of methanol flower extracts of *cassia auriculata* Linn. *Discovery biotechnology* vol 8, 1-8 (2018).

31. P. Sagadevan, Jayaram Jayaraj K .In vitro antioxidant, anticancer activity acetone and methanol extracts of carica papaya. International journal of Pharma and bio science vol 9(2) 6-16, (2018).
32. Sarnya S, Sagadevan .P, Senthilkumar V, janarathanan P, Jayaram Jayaraj K. biogenic synthesis of silver Nanoparticles and their antioxidant and antibacterial activity aqueous leaf extracts of centella asiatica Linn. Drug discovery Vol 12, 7-20(2018).
33. Thilagavathi R, Sagadevan P, Senthilkumar V, janarathanan P, Jayaram Jayaraj K Green synthesis of sliver Nanoparticles using piper betel aqueous leaf extract Drug discovery Vol 12 , 7-20( 2018).
34. Ranjith Kumar Rajamani, Selvam Kuppusamy, Sagadevan P, Pratheep Hallan Ravi, Chandar Shekar Bellan. Biosynthesis, characterization and remedical aspect of silver nanoparticles against pathogenic bacteria. MOJ Toxicol; 4(3):103–109 (2018).
35. In Vitro Anticancer Activity of Acetone and Chloroform Extracts of Tridax procumbens Leaf on Breast Cancer Cell Line MCF-7 .P Sagadevan, R. Dhivyavarshini, Janarathanan P , Rathish Kumar S , Megala R , Raghunath.M, Farshana. A and Vinitha Ezbiba. International Journal of Techno Chem Research 04(2), 125-133 (2018).
36. S.Anitha, P Mahendran, Selvakumar Sakthivel and Sagadevan Pattiyappan. Bio-effienc of Entomopathogenic fungus Metarhizium anisopliae (METSCH) against the tea mosquito bug, Helopeltis theivora (water house) and the red spider mite, Oligonychus coffeae (NIETNER) infecting tea in south India Volume 4; (3); 49-54 (2019).
37. Sagadevan P, Selvakumar S, Raghunath M, Megala R, Janarathanan P, Vinitha Ezbiba and Senthil Kumar V. Medicinal properties of Carica papaya Linn: Review Madridge J Nov Drug Res 3(1): 120-125 (2019).
38. V.Senthil KumarK. Nithya Sagadevan Pattiyappan K. Sujatha Studies on Phytochemical Analysis, Antibacterial Activity of Psidium guajava and Punica granatum FoodSci Indian Journal of Research in Food Science and Nutrition 6(2):25 (2019).
39. Sagadevan P, Review on Synthesis of Silver Nanoparticles Mediated Plan EC Pharmacology and Toxicology 8(9) 76-78(2020).

## Presentations in Conference

1. One day national level seminar on “Recent developments in spectroscopic techniques and its application”. Organized by department chemistry, held at Kongunadu arts and Science College, Coimbatore, on 16 march 2012.
2. National level seminar on “Bio-Safety Management and Good Laboratory Practices” organized by department of biotechnology, held at Kongunadu arts and Science College, Coimbatore, on 4 February 2012.
3. State level conference on “The Role of English in Current Scenario “organized by department of English (aided) held at Kongunadu arts and Science College, organized by department of English, on 29<sup>th</sup> mar-2012.
4. CPE, UGC sponsored SEMINAR ON “Environment issues, Challenges and Impact Assessment” Organized by department botany, held at 28<sup>th</sup>April, 2012
5. International conference on: “Microbial World: Recent innovations and Future Trends” held at kiit university, Bhubaneswar, Odisha on 22<sup>nd</sup>-25<sup>th</sup>November 2012.
6. Regional science congress on science for shaping the future of India jointly organized by Indian science congress association, Coimbatore chapter held at Kongunadu arts and science college, 15-16, 2012
7. National level conference on “Role of biotechnology in conservation of biodiversity” organized by department of biotechnology, held at Kongunadu arts and Science College, Coimbatore, on 9<sup>th</sup>&10<sup>th</sup>April, 2013.
8. National conference on “Immuno informatics- an insilicoaid Towards Better Medicines” organized by department of bioinformatics, held at Nirmala college for women Coimbatore, on 03 &4.october 2013.
9. One day national seminar on “Opportunities and Challenges in Bioscience” organized by department of biotechnology, held at Sree Narayana guru college Coimbatore, on 10<sup>th</sup>October 2013.

10. National conference on conservation and in venterization of below ground biodiversity organized by department of zoology, held at Kongunadu arts and Science College, Coimbatore, on 19<sup>th</sup> to 21december, 2013.
11. National conference on “Recent Strategies in Biodiversity Consecration” organized by department of biotechnology, held at Sree Narayana guru college Coimbatore, on22nd January 2014.
12. National level symposium and exhibition on “Medicinal values of plants and plant products” organized by department of biotechnology, held at Kongunadu arts and Science College, Coimbatore, on 23th January, 2014.
13. National science day and seminar held at Bharathiar University “Expanding horizons of Nanosciences on 28<sup>th</sup> February 2014.
14. A state level search for “Masteries of Science “organized by department of biotechnology, held at Kongunadu Arts and Science College, Coimbatore, on 4th February, 2014.
15. International seminar on infection and immunity organized by department of biotechnology, held at S.N.R Sons College, Coimbatore, on 18<sup>th</sup> to February, 2015.

### **Participation in Seminars**

16. One day national level seminar on Emerging Trends in Nanosciences organized by department of biochemistry & biotechnology, held at Kongunadu Arts and Science College, Coimbatore, on 31th march, 2015.
17. DST, NBA and TNSCST national symposium on “Cultural Landscapes, Indigenous Knowledge and Biotechnology tools for Biodiversity Conservation “organized by department of botany zoology &biotechnology, held at Kongunadu arts and science college, Coimbatore, on 7<sup>th</sup>&8<sup>th</sup> march, 2014.
18. National conference on medicinal plants and health care organized by department of biotechnology, held at Kongunadu Arts and Science College, Coimbatore, on 17th march, 2015.



19. UGC , TNSCST and N SERB International Conference on Environment, Genes Health & Diseases organized by department of human genetics and molecular biology held at Bharathiar university on 22 -24 of august 2017.
20. International seminar on “Innovation in Pollution Control and Sustainable Environment” organized by department biotechnology KSG College of Arts and Science Coimbatore, 2017.
21. National level conference on “Biomolecules and Metabolites” organized by department of biotechnology, held at Kongunadu arts and Science College, Coimbatore, on 23th February, 2017.
22. Two day national level seminar on Food borne pathogenesis and its bio-control organized by department of biotechnology, held at DR.GRD College of Science, Coimbatore, on 10<sup>th</sup>& 11<sup>th</sup> January, 2019.
23. National level seminar on Novel”microbial technologies for sustainable developments” organized by department of biotechnology, held at DR.GRD College of Science, Coimbatore, on 11<sup>th</sup>& 12<sup>th</sup> October, 2019.
24. One day workshop on Biotechniques and Analytic Instruments organized by department of biotechnology held at Kongunadu arts and Science College, on 27-28<sup>th</sup> August, 2010.
25. National level hands –on training on “Metgenomic Approach to Identify Bacterial Pathogens and Its Virulence Transcripts” organized by department of biotechnology held at Kongunadu arts and Science College, on 5-7<sup>th</sup>September, 2012.
26. National level workshop on “Biosafety bioethics and biological science “organized by department of biotechnology at Kongunadu calculation in arts and science college, on 16<sup>th</sup>December2013.
27. One day workshop on “Management of plastics for environment conservation” held at Forest College and research institute, mettupalayam on 28 January, 2013.
28. One day national level workshop on “Floristic documentation and herbarium technology- tools for species conservation” organized by department of botany held at Kongunadu arts and Science College, on 7<sup>th</sup>January 2014.

29. Two day workshop on “Emerging trend in biological science” organized by department of biochemistry held at Dr. N.G.P. College, on 7<sup>th</sup> and 9<sup>th</sup> October 2014.
30. Two day workshop on” innovation bioscience “organized by department of biochemistry held at Bharathiar University on 22<sup>th</sup> and 23<sup>rd</sup> 2016.
31. One day national level hands –on training “DNA Amplification and Gene Expression Analysis “organized by department of biotechnology held at Kongunadu arts and Science College, on 6<sup>th</sup> September, 2016.
32. One day national level hands –on “Biocomposting and Vermicomposting” organized by department of biotechnology held at Kongunadu arts and Science College, on 14<sup>th</sup> September, 2016.
33. One day workshop on” HPLC technique “organized by department of biotechnology held at Kongunadu Arts and Science College, on 5<sup>th</sup> September, 2017.
34. International conference on Environment, Gene, Health and Diseases organized by held at department of human genetics and molecular biology, on 22-24 August 2017.
35. Two day workshop on basic animal cell culture & molecular biology organized by department of biotechnology held at Kongunadu Arts and Science College, on 21<sup>th</sup> and 22<sup>nd</sup> December, 2017.
36. National workshop on Next generation sequencing data analysis organized by department of the south India textile research association held at SITRA , on 6<sup>th</sup> and 17<sup>nd</sup> November , 2017.
37. National level work shop on DNA taxonomy and phylogeny organized by department of biotechnology held at Kongunadu Arts and Science College, on 5<sup>th</sup> October, 2018.

### **Participation in Faculty Development Programme**

1. State level conference on “Faculty Development Programme (FEB 2012)” held at Kongunadu arts and science college, on 11/08/2012.
2. Participated in a webinar on “To enhance Professionalism during Pandemic Times” conducted by Sasuri College of Engineerings, Tripur on June 2021.

3. Participated in a webinar on “Blended Learning and Flipped Classrooms: Need of the Hour” conducted by KSG College of Arts and Science from 11 to 12<sup>th</sup> June 2021.

### **Conference / Seminar / Workshop Organized**

1. National level conference on “Role of Biotechnology in Conservation of Biodiversity” held at Kongunadu Arts and Science College, on 4<sup>th</sup> February-2013.
2. State level competition for school students “Biofiesta” b held at PG and Research Department of Biotechnology, Kongunadu Arts and Science College, Coimbatore on 13<sup>th</sup> August 2013.
3. National Conference on “Role of Bioscience in Societal Developments’ held at Palanisamy College of Arts on 17<sup>th</sup> Feb, 2017.
4. One day workshop on “Mushroom Cultivation” held at Palanisamy College of Arts on 8<sup>th</sup> March, 2017.
5. One day exhibition on “National Science day “held at kg College of Arts and science on 28<sup>th</sup> Feb ,2018.
6. 4<sup>th</sup> International Seminar on “New Navigation for Prostate Cancer Therapy’’, Organized K.S.G College of Arts & Science, Coimbatore in 2018.
7. 6<sup>th</sup> International conference on “Bioscience towards a Sustainable Future”- Organized by PG Department of Biotechnology, K.S.G College of Arts & Science, Coimbatore on 12/02/2020.
8. 7<sup>th</sup> International Seminar on International Webinar on “Aromatic compounds &Protein Structure” Organized by PG Department of Biotechnology, K.S.G College of Arts & Science, Coimbatore on 22/05/2020.
9. State level Webinar on “Trends & Opportunities in Biotechnology” Organized by PG Department of Biotechnology, K.S.G College of Arts & Science, Coimbatore on 16/10/2020.
10. State level Webinar on “Overview about the COVID vaccine” Organized by PG Department of Biotechnology, K.S.G College of Arts & Science, Coimbatore on 23/02/2021.

11. State level webinar on “Ribosomal Inactivating Proteins: Applications In Cancer Therapeutics” Organized by PG Department of Biotechnology, K.S.G College of Arts & Science, Coimbatore on 12/03/2021.

### Membership in Professional Bodies

Name of the Professional bodies	Nature of Membership	Duration
International Journal of pharma and bioscience	Annual	Yearly
Journal of Scientific and Innovative Research	Annual	Yearly
International Journal of Medi Pharm Research	Annual	Yearly
Madridge Journal of Novel Drug Research	Annual	Yearly
International journal of molecular biology	Annual	Yearly
Journal of Applied Pharmaceutical Science	Annual	Yearly

### Text Books Published

Name of the Book	Published by	Year
Biosafety, Bioethics and Calculation Biological Science	Sagadevan.P , Srinath N Karthikeyan.P ,Rathishkumar.S Gokulramnath.N	2016