

**Name** : Dr. P. Susheela

**Designation** : Associate Professor & Head

**Department** : Zoology

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

**Experience** : Teaching - 17 Years

**Research** : 8 Years

**Area of Specialization(s)** : Entomology

**Email (Official ID)** : [susheela@psgrkcw.ac.in](mailto:susheela@psgrkcw.ac.in)



### Academic Qualifications

Degree	Branch	Institution/University Name	Year of Graduation
Ph.D.	Zoology	Bharathiar University, Coimbatore	2019
M.Phil.	Zoology	Bharathiar University, Coimbatore	2004
M.Sc.	Zoology	Bharathiar University	2002
B.Sc.	Zoology	PSGR Krishnammal College for Women, Coimbatore	2000

### Additional Qualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/Agency Name	Year
Certification	Coursera	Introduction to Translational Science by University of Rochester	2025
Certification	Coursera	Bug 101: Insect-Human Interactions by University of Alberta	2023
Certification	Coursera	The Science of Stem Cells by the American Museum of Natural History	2022

### Research Guidance

Programme	No. of Scholars	
	Completed	Pursuing
Ph D	-	3

## Research Publications: International/National

- Sri Raagavee Sivakumar, Rajashree Ganeshan, Monika Madhanraj, Sowmitha Thangaraj, Sornapriya J, Susheela P (2024). Comparative diversiness of spiders (araneae) in different localities of Coimbatore, Tamil Nadu, India and their web types. African Journal of Biological Sciences.
- Radha R and Susheela P (2020). Studies on the life cycle, prey capturing mechanism and food preferences of nymph of dragonfly, *Brachythemis contaminata* (Odonata: Anisoptera). Studies in Indian Place Names. Vol 40 (18): pp 1732-1739.
- Susheela P, Rosaline Mary and Radha R. (2020) Studies on the physico-chemical characterization and elemental analysis of two species of wasp nests collected from Coimbatore district, Tamil Nadu. International Journal of Advanced Life Sciences. Vol 13 (1): pp 27-34.
- Susheela P., Rosaline Mary and Radha R (2018). Gas Chromatography and Mass Spectrometry of the ethanolic extract of nest material of mud dauber wasp, *Sceliphron caementarium*. Asian Journal of Pharmaceutical and Clinical Research. Vol 11(7): pp 234-236.
- Susheela P, Rosaline Mary and Radha R (2018). Biosynthesis of Silver Nanoparticles from the nests of the paper wasp, *Ropalidia marginata* and the mud wasp, *Sceliphron caementarium* and their antimicrobial activities. International Journal of Pharma and Bio Sciences. Oct; 9 (4): (B) 113-123.
- Susheela P, Rosaline Mary and Radha R (2018). In-vitro study of the anticancer activities of silver nanoparticles synthesized from the nests of *Ropalidia marginata* and *Sceliphron caementarium*. International Journal of Pharma and Bio Sciences. 10 (1), pp 55-68.
- Radha R and Susheela P (2016). Studies on the life cycle patterns of treehopper and its obligatory mutualistic association with Godzilla ant, *Camponotus compressus*. International Journal of Advanced Research in Biological Sciences. Vol 3(11): pp 112-119.
- Susheela P, Radha R and Meenatshi K (2016). A preliminary study on the life history of fig wasp, *Eupristina verticillata* and its key role in the pollination of fig tree, *Ficus microcarpa*. Journal of Entomology and Zoology Studies. Vol 4(6): pp 496-500.
- Susheela P and Radha R (2016). A study on the microbiological contamination of toothbrushes and importance of decontamination using disinfectants. World Journal of Pharmaceutical and Medical Research. Vol 2 (6): pp 201-207.
- Susheela P, Radha R and Padmapriyanga S (2016). Evaluation of larvicidal action of natural extracts on mosquito larvae of *Aedes aegypti* (Diptera: Culicidae). International Journal of Mosquito Research (IJMR). Vol 3(6): pp 26-30.
- Radha R, Susheela P and Subhashini K (2016). Comparative on the butterfly diversity and species richness in selected agricultural fields in Tamil Nadu. International Journal of Environment, Agriculture and Biotechnology. Nov-Dec; Vol 1 (4), pp 689-696.
- Susheela P and Radha R (2015). Production of Activated Carbon from dry coconut shell and its efficacy in treating waste water. International Journal of Chemical and Biological Sciences. Vol 1(10): pp 1-9.

- Susheela P and Radha R (2015). Faunal Diversity and Community Structure of Aquatic Insects in Singanallur Lake, Coimbatore, Tamil Nadu. International Journal of Applied and Pure Science and Agriculture. Vol 1(3): pp 1-7.
- Radha R and Susheela P (2015). Comparative microbiological analysis of pond water stored in different storage vessels. International Journal of Pharma and Bio Sciences. Vol 6(2): pp 121-128.
- Susheela P and Radha R (2015). Studies on the nutritional constituents and the aquatic insect fauna associated with water hyacinth, *Eichornia crassipes* in Singanallur Lake, Coimbatore. International Journal of Fauna and Biological Studies. Vol 2(6): pp 5-7.
- Susheela P and Radha R (2015). Nesting behaviour and biochemical estimation of the haemolymph of the paper wasp, *Ropalidia marginata* (Hymenoptera: Vespidae). European Journal of Biomedical and Pharmaceutical Sciences. Vol 2 (5), pp 666-677.
- Susheela P and Radha R (2015). Influence of Environmental Parameters on the Aquatic Entomofauna Assemblages of Singanallur Lake, Coimbatore. International Research Journal of Environment Sciences. Vol 2(6): pp 5-7.
- Susheela P (2014). Laboratory Evaluation of the Biochemical Parameters in the Haemolymph of the Lepidopteran Larvae after Stinging by the Potter Wasp, *Eumenes conica* (Insecta: Hymenoptera). Entomol Ornithol Herpetol. 3:123. doi: 10.4172/2161-0983.1000123.
- Radha R and Susheela P (2014). Efficacy of plant extracts on the toxicity, ovipositional deterrence and damage assessment of the cowpea weevil, *Callosobruchus maculatus* (Coleoptera: Bruchidae). Journal of Entomology and Zoology Studies. Vol 2 (3), pp 16-20.
- Radha R and Susheela P (2014). Chemical composition and antimicrobial activities of the essential oils from three aromatic plants against *Callosobruchus maculatus* (Coleoptera: Bruchidae). Scrutiny International Research Journal of Biological and Environmental Science (SIRJ-BES). Vol 1(3), pp 38-49.
- Susheela P, Radha R and Ezhili N (2014). Diversity and Distribution of Aquatic Insect Population in Singanallur Lake, Coimbatore. Journal of International Academic Research for Multidisciplinary. Vol 2(5), pp 141-147.
- Susheela P and Radha R (2014). Laboratory Evaluation and Comparative Study of Herbal Mosquito Coils against the Filarial vector, *Culex quinquefasciatus* (Diptera: Culicidae). Journal of Research in Biology. Vol 4(4), pp 1332-1337.
- Radha R and Susheela P (2014). Studies on the Life History and Ovipositional Preference of *Callosobruchus maculatus* reared on different pulses. Research Journal of Animal, Veterinary and Fishery Sciences. Vol 2(6), pp 1-5.
- Susheela P, Srirahavi B and Radha R (2014). Effectiveness of *Moringa oleifera* seeds in the Phytoremediation of Pond Water. Scrutiny International Research Journal of Agriculture, Plant Biotechnology and Bio Products (SIRJ-APBBP). Vol 1(2), pp 34-42.
- Susheela P, Radha R and Ezhili N (2014). Development of an ecofriendly herbal mosquito repellent. Journal of Innovative Biology. Vol 1(3), pp 132-136.
- Radha R and Susheela P (2014). Efficacy of essential oils in the control of microbes in contaminated currency notes in India. Universal Journal of Environmental Research and Technology. Vol 4 (6): pp 290-298.
- Susheela P and Radha R (2013). Studies on the Levels of Cholesterol and Phospholipids in the Haemolymph of the Lepidopteran Larvae before and after Stinging by the Potter Wasp, *Eumenes conica*. International Research Journal of Biological Sciences. Vol 2(3), 11-15.

### **Gene Bank Submission**

- Deposited 5.8S rRNA gene sequences of 8 fungal isolates from mud wasp (*Sceliphron caementarium*) and paper wasp (*Ropalidia marginata*) nests, Coimbatore, Tamil Nadu, to GenBank (Accession Nos. MF443913–MF444160, 2017).

### **Research papers presented in international conference:**

- Presented a paper entitled “Laboratory Evaluation of the Biochemical Parameters in the hemolymph of the Lepidopteran Larvae before and after stinging by the potter wasp, *Eumenes conica*” at the 2nd Global Conference on Entomology, Kuching, Sarawak, Malaysia from 8.11.2013 to 12.11.2013.
- Presented a paper entitled “Molecular and biochemical profiling of spidroin protein” at the International Conference on Advances in Life Sciences organized by the PG & Research Department of Zoology, The American College, Madurai from 29.09.2025 to 30.09.2025.

### **Presentation in Seminar**

- Presented a paper entitled “Bio-briquettes –an alternative energy resource” in a National Seminar on Alternative Energy Resources-A Future Perspective at PSGR Krishnammal College for Women, Coimbatore, Aug 30-31, 2012.
- Presented a paper on “An Effective Approach to Reach the Hearts and Minds of Students” in NAAC sponsored State Level Seminar on Innovative Practices in Teaching –Learning Process on 12th September 2015, Nandha Arts & Science College, Erode.
- Presented a paper entitled “GC-MS analysis of bioactive compounds in the ethanolic extract of nest material of the paper wasp *Ropalidia marginata*” at the 30th session of Kerala Science Congress (30th KSC) from 28th to 30th January 2018 at Government Brennen College, Thalassery, Kannur, Kerala.

### **Reviewer in Journal**

- Regenerative Engineering and Translational Medicine

### **Book Chapters Published**

- Authored Book Chapters: Environmental Sciences (PSGRKCW)
- Authored Sericulture Practical Manual I (ISBN: 978-81-942940-8-5)
- Contributed to Zoology Practical SOPs under DBT Star College Scheme
- Authored Book chapter - Spider (Araneae) Web Types and Spider Silk – An Overview in Recent Advances in the Field of Life Sciences-Vol 2 (ISBN: 978-81-957386-2-5)

### **Letter of Appreciation**

- Appreciation Award – Women’s Day 2024, Lions Club & PSGRKCW.
- Best Nature Conservation Award 2023 awarded by the Nature Conservation Society (NCS), Coimbatore and WWF-India - 07.08.2023.
- Certificate of Appreciation for 'Virtual Tree Plantation initiative' by Makkal Sevai Maiyam – 05.02.2025

### **Acted as a Resource Person**

- Resource person for 'Production of Bio Briquettes from Solid Wastes' (Pollachi, Aug 2012).
- Resource person for 'Biobriquette - An Alternative Energy Resource' and 'Production of Bio Fertilizer from Fish Wastes' (Kalapatti & Singanallur, 2013).
- Resource person for 'Estimation of Haemoglobin, Blood grouping and Blood Pressure' (Kattampatti and Muthalipalayam, Dec 2017).
- Resource person for Demonstrating the technology of Bioconversion of Fish Waste to Liquid Fertilizer in the Gram Sabha and Farmer’s meet at Narasipuram, Coimbatore, 18.08.2019.
- Resource person for the Faculty Enhancement Programme (KCW-TLC, 2023).
- Resource person for one day orientation/mentoring Programme under DBT STAR College Scheme at ADM College for Women, Nagapattinam, Feb 2024.
- Resource person for “*Environmental Management*” for students of Science and Non-Science departments at Pavai Arts and Science College for Women, Namakkal, 07.08.2024.
- Extremal Expert for the Academic Audit-cum-Star Department Evaluation organized by Internal Quality Assurance Cell (IQAC), Bishop Heber College, Tiruchirappalli, 23.09.2025.

### **Participation in Workshop**

- Total Number - 25

### **Participation in FDP**

- Total Number - 20

### **Participation in Webinar**

- Total Number - 15

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

- **Organizing committee** – Science Academies’ Lecture Series Workshop on “*Interdisciplinary Approach to Life Science Research*” on 14–15 March 2014.

- **Organizing committee** – Science Academies’ Lecture Series Workshop on “*Interdisciplinary Approach to Life Science Research*” on 19–20 December 2014.
- **Programme Coordinator** – Indian Science Academy sponsored 2-day Lecture Series Workshop on “*Impact of Life Sciences in the 21st Century*” on 20–21 December 2016.
- **Programme Coordinator** – One-day National level Short Filmmaking Competition on “*Biological Concepts*” on 29 January 2020 under DBT Star College Scheme.
- **Organizing Committee Member** – Two-day International Symposia on *Fish and Fisheries* on 5–6 March 2020.
- **Programme Co-ordinator** – Two-week Online Refresher Course in Zoology in collaboration with TLC, Ramanujan College, University of Delhi, sponsored by MHRD-PMMNMTT from 15–29 December 2021.
- **Eco-Watch Club** – Wildlife Education Camps (Mudumalai 2022 & 2023).
- **Eco-Watch Club** – Organized Mega Tree Plantation Drives (7000+ saplings distributed) in collaboration with ISKCON and NGO SPARK
- **DBT-CTEP Programme Coordinator** – 2-day Workshop on *Bio-Entrepreneurship and Innovation Towards Career Opportunity* on 16–17 February 2023.
- **Organized Community-oriented Programme** – at Ikarai Booluvampatti on 11 December 2023 on *Solid Waste Management, Climate Change and Emerging Microbes*.
- **Organizing Committee Member** – *Youth and Climate Conclave* on 20 January 2024, jointly by PSGRKCW, Siruthuli, Poovulagin Nanbargal.
- **Organizing Committee Member** – DBT-CTEP sponsored Two-day International Conclave on “*Anti-microbial Resistance*” on 4–5 March 2024.
- **Awareness Programmes** – *Garbage-Free Coimbatore 2024, AMR One Health Conclave*.
- **Organizing Committee Member** – iNSERB sponsored Two-day International Conclave on “*One Health*” on 18–19 September 2024.
- **Organized Rally** – *Carbon Neutral Journey’s – Emission to Empowerment* at Race Course, Coimbatore in association with Makkal Sevvai Maiyyam on 5 February 2025.
- **Organizing Committee Member** – DBT-CTEP sponsored Two-day National Conference on “*BioE3*” on 24–25 July 2025.

## Grants

S. No.	Project Title	Funding Agency	Amount (in Lakhs)/Status
1	Eco-friendly Mosquito Repellent	DST-IEDC	1.0 / Completed
2	Nanoparticles from Wasp Nests	GRG Trust	0.5 / Completed
3	Digitization of Zoology Laboratory Specimens	GRG Trust	0.5 / Completed

4	Bioconversion of Fish Waste to Liquid Bio Fertilizer	UBA (GoI)	1.0 / Completed
5	ICT Enabled Teaching & Learning in Biology	NCSTC	4.0 / Completed
6	Value Added Dehydrated Agricultural Food Product	UBA 2.0 (IIT Delhi)	0.5 / Completed

### Membership in Professional Bodies

S. No.	Name of the Professional Body	Nature of membership	Duration
1	Indian Academy of Biopesticides	Executive committee member	2025-2026

### Awards/Honors

Awards/Honors	Agency/Institute	Year of Award
Science Academies' Summer Research Fellowship at Central University of Kerala	Science Academies' (IASc, INSA, NASI)	2015
Best Nature Conservation Award	Nature Conservation Society (NCS), Coimbatore and WWF-India	2023
Appreciation Award – Women's Day	Lions Club & PSGRKCW	2024
Certificate of Appreciation for 'Virtual Tree Plantation initiative'	Makkal Sevai Maiyam, Coimbatore	2025

### Indexing and Citations

- H Index: 5
- Citations: 163

## **Contribution**

- Coordinator, Eco -watch Club (2019 - 2025)
- Coordinator, Staff-Club (2022 - 2025)
- DBT Star College Deputy Coordinator (2015–2017).
- DBT Star College Department Coordinator (2017–2020).