

## Dr. S. Jeyaparvathi, M.Sc., M.Phil., Ph.D.,

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### EDUCATION

M.Sc.,M.Phil.,Ph.D., (Zoology)

### PROFESSIONAL HONOURS

1. **Women Scientist Award** from the **Department of Science and Technology (WOS-A)**, New Delhi. (Rs. 22, 50,000)(2010-2013).
2. **Best Paper presentation Award** in the 1<sup>st</sup>Biopesticide International Conference (BIOCICON 2007) held at St. Xavier's College, Palayamkottai.
3. **Best Paper presentation Award** in the 3<sup>rd</sup>Biopesticide International Conference (BIOCICON 2011) held at St. Xavier's College, Palayamkottai.
4. **Best Paper presentation Award** in the in the National Conference on Biomoleculesheld at V.V. College of Engineering, Tisayanvilai.
5. **Young Scientist Award** from the **Department of Science and Technology (SERB)**, New Delhi. (Rs. 16, 50,000) (2013-2016).

### TEACHING EXPERIENCE

Name of employer & Address	Date of Joining	Date of Leaving	Designation	Department
Adithanar College of Arts & Science, Tiruchendur.	16.08.2004	11.12.2007	Assistant Professor	Zoology
Ayya Nadar Janaki Ammal College, Sivakasi.	16.06.2009	17.06.2014	Assistant Professor	Zoology
Lady Doak College, Madurai.	18.06.2014	20.06.2018	Assistant Professor	Biotechnology
Holy Cross College, Trichy.	21.06.2018	30.10.2018	Assistant Professor	Zoology
Sourashtra College, Madurai.	17.06.2019	31.04.2020	Assistant Professor	Microbiology
VSM college, Andhra Pradesh	10.06.2020	01.10.2020	Assistant Professor	Zoology

Ultra Arts and Science college, Madurai.	02.11.2020	Till date	Professor and Head	Forensic Science
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## ACADEMICQUALIFICATION

Examination or Degree obtained	Institute	University	Class or Division	Subject taken	(%)	Date of Passing
S.S.L.C	K. A. Hr.Sec. School, Arumuganeri.	State Board	First	-	72	22.06.1993
+2	K. A. Hr.Sec. School, Arumuganeri.	State Board	First	Maths-Biology	72	25.05.1995
B.Sc.,	Govindammal Adithanar College, Tiruchendur.	Manonmaniam Sundaranar University	First	Zoology	72	30.07.1998
M.Sc.,	Sarah Tucker College, Palayamkottai.	Manonmaniam Sundaranar University	First	Zoology	68	27.07.2000
M.Phil*	St. John's College, Palayamkottai.	Manonmaniam Sundaranar University	First	Zoology	72	08.08.2001
Ph.D	St. Xavier's College, Palayamkottai.	Manonmaniam Sundaranar University	HC	Zoology	-	10.08.2010

**\*College First**

## PAPERS PRESENTED IN CONFERENCE

1. Sahayaraj, K. and **S. Jeyaparvathi**. 2009. Biology and biological control potential of two *Oxyopes* spp. International conference on Biopesticide (BIOCICON 2009) held on 28.11.2009. St.Xavier's College, Palayamkottai.
2. Chellapandian, A., Kottaraj, R., Manikandan, K. and **S. Jeyaparvathi**. 2010. Population dynamics of spiders and pests in cotton ecosystem. International conference at Nirmala College,Coimbatore.
3. **Jeyaparvathi, S.** and K. Jeya. Women and Modern Biotechnologies in Agriculture. p. 30. Myths and Realities of women Empowerment. held on 6<sup>th</sup> January, 2011 at Ayya Nadar Janaki Ammal College, Sivakasi.
4. **Jeyaparvathi, S.** and S. Baskaran. Women in Technology. p. 31. Myths and Realities of women Empowerment. held on 6<sup>th</sup> January, 2011 at Ayya Nadar Janaki Ammal College, Sivakasi.

5. **Jeyaparvathi, S.** and S. Muthumeerea. Pesticide in breast milk – a public health perspective. p. 63. Myths and Realities of women Empowerment. held on 6<sup>th</sup> January, 2011 at Ayya Nadar Janaki Ammal College, Sivakasi.
6. Malarvizhi, M. and **S. Jeyaparvathi.** Women – an Empowerment and Pioneer for all. p. 76. Myths and Realities of women Empowerment. held on 6<sup>th</sup> January, 2011 at Ayya Nadar Janaki Ammal College, Sivakasi.
7. **Jeyaparvathi, S.** and S. Muthumeerea. Pesticide in breast milk – a public health perspective. p. 63. Myths and Realities of women Empowerment. held on 6<sup>th</sup> January, 2011 at Ayya Nadar Janaki Ammal College, Sivakasi.
8. **Jeyaparvathi, S.** and P. Ganesan. Diversity of spiders abundance in Arumuganeri rice agroecosystem of Thoothukudi district. National Science day and 42<sup>nd</sup> Aqua-Terr Annual Conference on Genomic Sciences. 21. held on 28<sup>th</sup> Feb, 2011 at Madurai Kamaraj University, Madurai.
9. Manikandan, K. and S. **Jeyaparvathi.** Studies on the different types of web and their mechanical properties. Proceedings: Eighth All India Conference of Scott Research Forum – 2011. Held on 2<sup>nd</sup> April, 2011 at Scott Christian College, Nagerkovil. Volume – II. Zoology-216.
10. **Jeyaparvathi, S.,** Baskaran, S., Bakavathiappan, Ga. and M. Pavaraj. Chemical pesticide usage in Agro-ecosystem of Sivakasi area – A report. National Conference on Role of Chemicals in Advanced chemistry held on 25<sup>th</sup>& 26<sup>th</sup> July 2011 at ANJA College, Sivakasi.
11. Chellapandian, A. and **Jeyaparvathi, S.** Survey of spider fauna in terrestrial ecosystem of Achanthavirthan, virudhunagar district. National Science day and 42<sup>nd</sup> Aqua-Terr Annual Conference on Genomic Sciences.p.11. held on 28<sup>th</sup> Feb, 2011 at Madurai Kamaraj University, Madurai.
12. Pavaraj, M., Bakavathiappan, Ga., Baskaran, S. and **S. Jeyaparvathi.** Biomonitoring of lead pollution in birds. National Conference on Role of Chemicals in Advanced chemistry held on 25<sup>th</sup>& 26<sup>th</sup> July 2011 at ANJA College, Sivakasi.
13. Manikandan, K. and S. **Jeyaparvathi.** Spider's silk: Investigation of spinning process and its properties. National Science day and 42<sup>nd</sup> Aqua-Terr Annual Conference on Genomic Sciences. 21. held on 28<sup>th</sup> Feb, 2011 at Madurai Kamaraj University, Madurai.
14. **Jeyaparvathi, S.** and C. Senthilkumar. The potential of predatory spiders as biological control agents of cotton pests in Sathankulam. National Science day and 42<sup>nd</sup> Aqua-Terr Annual Conference on Genomic Sciences. 41. held on 28<sup>th</sup> Feb, 2011 at Madurai Kamaraj University, Madurai.
15. **Jeyaparvathi, S.** and S. Baskaran. Survey of spider fauna in Ayya Nadar Janaki Ammal College campus, Sivakasi. National Science day and 42<sup>nd</sup> Aqua-Terr Annual Conference on Genomic Sciences. 41. held on 28<sup>th</sup> Feb, 2011 at Madurai Kamaraj University, Madurai.

16. John Wilson, J. and S. **Jeyaparvathi**. Diversity of spiders in maize fields of Athikulam village, Virudhunagar district. National Science day and 42<sup>nd</sup> Aqua-Terr Annual Conference on Genomic Sciences. 24. held on 28<sup>th</sup> Feb, 2011 at Madurai Kamaraj University, Madurai.
17. John Wilson, J. and S. **Jeyaparvathi**. Impact of climatic changes on biodiversity. State Level Seminar on Global Warming and its Impact. p. 71. State level Seminar on Global warming and its impact held on 8<sup>th</sup> Feb. 2011 at ANJA College, Sivakasi.
18. **Jeyaparvathi, S.**, Baskaran, S. and Ga. Bakavathiappan. 2011. Biodiesel as an alternative fuel. National Level Technical Symposium on Renewable and Green Energy Sources and Technology. Proceeding on National Level Technical Symposium on Renewable and green energy sources and Technology, May 2011, 1 – 9. National Engineering College, Kovilpatti.
19. Pavaraj, M., Bakavathiappan, Ga., Baskaran, S. and S. **Jeyaparvathi**. E-resources for biology research scholars in rural area. State level seminar on Quality sustenance and enhancement of higher education in rural institution held on 29<sup>th</sup> & 30<sup>th</sup> July 2011 at Sri Kaleeswari College, Sivakasi.
20. **Jeyaparvathi, S.**, Baskaran, S., Bakavathiappan, Ga. and M. Pavaraj. New technology for teaching and learning. State level seminar on Quality sustenance and enhancement of higher education in rural institution held on 29<sup>th</sup> & 30<sup>th</sup> July 2011 at Sri Kaleeswari College, Sivakasi.
21. **Jeyaparvathi, S.**, Pavaraj, M., Bakavathiappan, Ga. and S. Baskaran. Predatory potential of spiders to control cotton pests. 2<sup>nd</sup> International Congress of Global warming on biodiversity of Insects: Management and Conservation held on 24<sup>th</sup> -26<sup>th</sup> August, 2011 at Bharathiar University, Coimbatore.
22. Bakavathiappan, Ga., Baskaran, S., Lingathurai, S. Pavaraj, M. and S. **Jeyaparvathi**. Impact of *Calotropisprocera* on the feeding inhibition and detoxifying enzyme activities of *Helicoverpaarmigera* Hubner (Lepidoptera: Noctuidae). 2<sup>nd</sup> International Congress of Global warming on biodiversity of Insects: Management and Conservation held on 24<sup>th</sup> -26<sup>th</sup> August, 2011 at Bharathiar University, Coimbatore.
23. **Jeyaparvathi, S.**, Baskaran, S. and Ga. Bakavathiappan. Haemoglobin, anaemia, dementia and cognitive decline in the elderly, a systematic review. National Seminar on Global Communicable diseases and Non-communicable diseases held on 1<sup>st</sup> and 2<sup>nd</sup> March 2011 at Lady Doak College, Madurai.
24. Bakavathiappan, Ga., Baskaran, S., Pavaraj, M. and S. **Jeyaparvathi**. Effect of *Calotropisprocera* leaf extract on *Spodopteralitura* (Fab.). **3<sup>rd</sup> Biopesticide International Conference** held on 28 – 30 November 2011 at St. Xaviers College (Autonomous), Palayamkottai.
25. Bakavathiappan, Ga., Pavaraj, M., **Jeyaparvathi, S.** and S. Baskaran. Survey of Non communicable diseases in and around Sivakasi area, Virudhunagar district – A case study. National Seminar on Global Communicable diseases and Non communicable diseases held on 1<sup>st</sup> and 2<sup>nd</sup> March 2011 at Lady Doak College, Madurai.
26. **Jeyaparvathi, S.**, Baskaran, S., Bakavathiappan, Ga. and M. Pavaraj. Physico-chemical characteristics of selected pond water in Virudhunagar District. International conference on

Environment, genes, health and Diseases held on 9<sup>th</sup> – 11<sup>th</sup>December, 2011 at Bharathiar University, Coimbatore.p.46.

27. John Wilson, J., Pavaraj, M., Ramakrishnan, R., **Jeyaparvathi, S.** and SP. Sevarkodiyone. Effect of climatic change on spider diversity in paddy field of Athikulam village, Srivilliputhur Taluk, Virudhunagar District. International conference on Environment, genes, health and Diseases held on 9<sup>th</sup> – 11<sup>th</sup>December, 2011 at Bharathiar University, Coimbatore.p. 27.
28. **Jeyaparvathi, S.** and S. Baskaran. A study on the Hb content of female students of Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu, India. One day Seminar on Global threats on Communicable and life style diseases. held on 07<sup>th</sup> March 2011, Fatima College, Madurai.
29. Bakavathiappan, Ga., Baskaran, S., Lingadurai, S. Pavaraj, M. and **S. Jeyaparvathi**. Effect of Phytochemicals from *Calotropisprocera* growth inhibition of crop pest *Spodoptera litura* and *Helicoverpa armigera*. International conference on Environment, genes, health and Diseases held on 9<sup>th</sup> – 11<sup>th</sup>December, 2011 at Bharathiar University, Coimbatore.
30. Pavaraj, M., Bakavathiappan, Ga., Baskaran, S. and **S\*. Jeyaparvathi**. p. 27-30. E-Resources for biology research Scholars in rural area. Proceedings of State level seminar on Quality sustenance and Enhancement of higher education in rural institutions held on 29<sup>th</sup> and 30<sup>th</sup> organized by Sri Kaliswari College.
31. **Jeyaparvathi, S\***. Baskaran, S., Bakavathiappan, Ga. and M. Pavaraj. Spiders as biological control agents in cotton plantations in Srivilliputhur, Sivakasi, Tamil Nadu, India. **International Conference on Biopesticides 6 (ICOB 6)** held on 11-16, December, 2011, Chiang Mai, Thailand.
32. **Jeyaparvathi, S\***.and S. Baskaran. The prey of the Lynx spiders (Araneae, Oxyopidae) associated with the cotton fields of Sivakasi, Virudhunagar District, Tamil Nadu. National Science day and 42<sup>nd</sup> Aqua-Terr Annual Conference on Genomic Sciences. p. 14. held on 28<sup>th</sup> Feb, 2012 at Madurai Kamaraj University, Madurai.
33. **Jeyaparvathi, S\***. and Ga. Bakavathiappan. 2012. Nutrient balance affects foraging behavior of a trap-building spider. National Science day and 42<sup>nd</sup>Aqua-Terr Annual Conference on Genomic Sciences. p. 30. held on 28<sup>th</sup> Feb, 2012 at Madurai Kamaraj University, Madurai.
34. **Jeyaparvathi, S\***., Baskaran, S., Bakavathiappan, Ga. and M. Pavaraj. 2012. Mechanical properties of spider silk and its spinning process. National Science day and 42<sup>nd</sup> Aqua-Terr Annual Conference on Genomic Sciences. p. 39. held on 28<sup>th</sup> Feb, 2012 at Madurai Kamaraj University, Madurai.
35. **Jeyaparvathi, S\***., Baskaran, S. and R. Ramakrishnan. 2012. The predatory potential of Oxyopidae spiders on grasshopper, *Artracomorpha crenulata* (Fab.). National Science day and 42<sup>nd</sup> Aqua-Terr Annual Conference on Genomic Sciences. p. 62. held on 28<sup>th</sup> Feb, 2012 at Madurai Kamaraj University, Madurai.
36. **Jeyaparvathi, S\***.and S. Baskaran. 2012. Preliminary studies on the spider fauna (Araneae) in paddy fields of Arumuganeri, Thoothukudi District, Tamil Nadu. National Science day and

42<sup>nd</sup> Aqua-Terr Annual Conference on Genomic Sciences. p. 62. held on 28<sup>th</sup> Feb, 2012 at Madurai Kamaraj University, Madurai.

37. **Jeyaparvathi, S\*** and S. Baskaran. 2012. The predatory behavior of orb-web weaving spider *Argiope anasuja* (Thorell). National Conference on Frontier Areas in Applied Zoology. p. 26. held on March 15<sup>th</sup> – 17<sup>th</sup>, 2012 at Ayya Nadar Janaki Ammal College, Sivakasi.
38. **Jeyaparvathi, S\*** and S. Baskaran. 2012. Spider fauna of Ayya Nadar Janaki Ammal College campus, Sivakasi, Virudhunagar district. National Conference on Frontier Areas in Applied Zoology. p. 30. held on March 15<sup>th</sup> – 17<sup>th</sup>, 2012 at Ayya Nadar Janaki Ammal College, Sivakasi.
39. Umayalparvathi, M. and **S\*.Jeyaparvathi**. 2012. Evaluation of botanicals for insect pests management on cotton plants. National Conference on Frontier Areas in Applied Zoology. p. 32. held on March 15<sup>th</sup> – 17<sup>th</sup>, 2012 at Ayya Nadar Janaki Ammal College, Sivakasi.
40. Thangamariappan, M. and **S\*.Jeyaparvathi**. 2012. Preliminary studies on the spider fauna in cotton fields of Thayilpatti, Virudhunagar district, Tamil Nadu (Araneae). National Conference on Frontier Areas in Applied Zoology. p. 33. held on March 15<sup>th</sup> – 17<sup>th</sup>, 2012 at Ayya Nadar Janaki Ammal College, Sivakasi.
41. Manikandan, K. and **S\*.Jeyaparvathi**. 2012. Studies on the physiological characteristics of funnel web spider silk across species. National Conference on Frontier Areas in Applied Zoology. p.34. held on March 15<sup>th</sup> – 17<sup>th</sup>, 2012 at Ayya Nadar Janaki Ammal College, Sivakasi.
42. **Jeyaparvathi, S\***, Baskaran, S. and Ga. Bakavathiappan. 2012. Population dynamics of spiders in selected cotton fields of Virudhunagar district, Tamil Nadu, India. International BioConference & Event, 12-13 December 2012, *Leonia International Convention*, Hyderabad, India.
43. **Jeyaparvathi, S.** and S. Baskaran. **2012**. Evaluation of Ecofriendly Control Method for the Management of the okra pest *Zonabris pustulata* (Thunberg). p. 23. National Seminar on Green Bioenergy held on 27<sup>th</sup> and 28<sup>th</sup> December, 2012 at Alagappa Government Arts College, Karaikudi.
44. **Jeyaparvathi, S\***, Baskaran, S., Rajan, M. K. and Ga. Bakavathiappan . **2013**. Biocontrol potential of the selected spiders on the key cotton pests held at Womens Christian College, Chennai.
45. **Jeyaparvathi, S\***, Baskaran, S. and M. K. Rajan. Population dynamics of spiders in the terrestrial ecosystem of Sivakasi, Virudhunagar district, Tamil Nadu, India held at Womens Christian College, Chennai.
46. **Jeyaparvathi, S.** and S. Baskaran. **2013**. Antimicrobial activity of venom from the orb web spider *Argiope anasuja* (Thorell) (Araneae: Araneidae). National conference on Microbial Technology for sustainable development held on 1 & 2 Feb, 2013 at Gandhigram Rural University, Dindigul.

47. **Jeyaparvathi, S** and S. Baskaran. 2013. Antibacterial activity of *Lycosa pseudoannulata* (Bosenberg.) (Araneae:Lycosidae) venom against human pathogens. National conference on Microbial Technology for sustainable development held on 1 & 2 Feb, 2013 at Gandhigram Rural University, Dindigul.
48. Mahalakshmi, R., **Jeyaparvathi, S\*** and M. K. Rajan. 2013. Recent Technologies for alternative energy resources. p. 10. State Level Seminar on Alternative Energy Resources held on 14.02.2013 at Ayya Nadar Janaki Ammal College, Sivakasi.
49. Murugan, G. and **S\*.Jeyaparvathi**. 2013. Efficiency for sustainable and renewable green energy sources. p. 12. State Level Seminar on Alternative Energy Resources held on 14.02.2013 at Ayya Nadar Janaki Ammal College, Sivakasi.
50. Mahalakshmi, T. and **S.Jeyaparvathi**. 2013. Tidal power as a renewable source of energy. p. 23. State Level Seminar on Alternative Energy Resources held on 14.02.2013 at Ayya Nadar Janaki Ammal College, Sivakasi.
51. **Jeyaparvathi, S\***. and S. Baskaran. 2013. Predatory efficacy of the selected predatory spiders on the major okra pests. State level Seminar on Recent trends in Life Sciences held on 27.02.2013 at Sri Meenakshi Government Arts College for Women, Madurai.
52. **Jeyaparvathi, S\***. and S. Baskaran. 2013. Diversity of spider fauna in the okra field of Thailakulam, virudhunagar district, Tamil Nadu, India. State level Seminar on Recent trends in Life Sciences held on 27.02.2013 at Sri Meenakshi Government Arts College for Women, Madurai.
53. **Jeyaparvathi, S\***. and S. Baskaran. 2013. Antibacterial activity of *Lycosa pseudoannulata* (Bosenberg.) (Araneae: Lycosidae) venom against human pathogens. National Science day and 43<sup>rd</sup> Aqua-Terr Annual Conference on Genomic Sciences. p.68. held on 28<sup>th</sup> Feb, 2013 at Madurai Kamaraj University, Madurai.
54. Murugan, G. and **S. Jeyaparvathi**. 2013. Population dynamics of spiders in the selected maize fields of Nagapalayam, Virudhunagar district, Tamil Nadu, India. held at St. Xavier's College, Palayamkottai.
55. **Jeyaparvathi, S\***. and S. Baskaran. 2013. Biocontrol potential of the web weaving spiders on the selected cotton pests. State level Seminar on Recent trends in Life Sciences held at Rajah Government College of Arts & Science, Pudukkottai.
56. **Jeyaparvathi, S\***. and S. Baskaran. 2013. Diversity of spider fauna in the selected cotton fields of Nagapalayam, Virudhunagar district, Tamil Nadu, India. State level Seminar on Recent trends in Life Sciences held at Rajah Government College of Arts & Science, Pudukkottai.
57. **Jeyaparvathi, S\***. and S. Baskaran. 2013. Population dynamics of spiders in the terrestrial ecosystem of Sivakasi, Virudhunagar district, Tamil Nadu, India. International Geographical Union (IGU) Conference on Geoinformatics for biodiversity and climate change held on March 14-16<sup>th</sup> 2013 at Rohtak, Haryana.

58. **Jeyaparvathi, S\*.,** Baskaran, S. and M. K. Rajan. 2013. Diversity of spider fauna in the okra field of Sivakasi, Virudhunagar district, Tamil Nadu, India. International Geographical Union (IGU) Conference on Geoinformatics for biodiversity and climate change held on March 14-16<sup>th</sup> 2013 at Rohtak, Haryana.
59. **Jeyaparvathi, S.** and S. Baskaran. “Population dynamics of spiders in the selected Maize fields of Thailakulam, Virudhunagar district, Tamil Nadu, India. 2013. National conference on Role of biotechnology in conservation of biodiversity” held on 9<sup>th</sup>& 10<sup>th</sup> April 2013 at Kongu Nadu Arts and Science College, Coimbatore.
60. **Jeyaparvathi, S.** and S. Baskaran. 2013. Antibacterial activity of *Peucetia viridana* (Stolizcka) and *Argiope catenulata* (Doleschall) venoms against Human pathogens. 2013. National conference on Role of biotechnology in conservation of biodiversity” held on 9<sup>th</sup>& 10<sup>th</sup> April 2013 at Kongu Nadu Arts and Science College, Coimbatore.
61. **Jeyaparvathi, S.** Identification of Serum miRNAs as prospective Bio-markers for acute and chronic pancreatitis, **7<sup>th</sup> Indo Global Diabetes Summit and Medicare Expo November, 23-25, 2015 Bangalore, India.**

#### PAPERS PUBLISHED

1. Sahayaraj, K. and **S. Jeyaparvathi.** 2008. Web architecture and Pharmacognosy of spiders from groundnut ecosystem. *J. Appl. Biosci.*, 34 (1): 94-96.
2. Sujatha, S., **Jeyaparvathi, S.** and S. Jasmine Priya. 2011. Biotechnological based subtractive hybridization and variations of Gene content in an organ of pathogenic shrimp. *International Journal of Zoological Research*, 7 (4): 310-319.
3. Sahayaraj, K. and **S. Jeyaparvathi.** 2011. Distribution and diversity of spiders in agroecosystems of Tirunelveli and Thoothukudi districts of Tamil Nadu, India. *Bugs R All*, 17: 10-12.
4. **Jeyaparvathi, S.,** Baskaran, S. and Ga. Bakavathiappan. 2011. Predatory potential of Oxyopidae spiders on major cotton insect pests. *Proceedings: Eighth All India Conference of SRF – 2011, Volume II.*p.238-242.
5. **Jeyaparvathi, S.,** Baskaran, S. and Ga. Bakavathiappan. 2011. Biodiesel as an alternative fuel. Proceeding on National Level Technical Symposium on Renewable and green energy sources and Technology, p, 1 – 9.
6. Manikandan, K. and **S. Jeyaparvathi.** 2011. Studies on the different types of web and their mechanical properties. *Proceedings: Eighth All India Conference of SRF – 2011, Volume II.* p.216-218.
7. Isaiarasu, L., Sakthivel, N., Ravikumar, J. and **S. Jeyaparvathi.** 2011. A preliminary report on spiders in mulberry cultivations near Srivilliputhur, Tamil Nadu, India. *Insect Pest Management, A Current Scenario*, pp.111-113.



8. Bakavathiappan, Ga., Baskaran, S., Pavaraj, M. and **S. Jeyaparvathi**. 2012. Effect of *Calotropis procera* leaf extract on *Spodoptera litura* (Fab.). *JBiopest.*, **5**: 135-138.
9. **Jeyaparvathi\***, S., Baskaran, S. and Ga. Bakavathiappan. 2012. Population dynamics of spiders in the selected cotton fields of Virudhunagar district, Tamil Nadu, India. *Bioherald Int. Jour. of Biodiversity & Environment.*, **2**(2): 143-151.
10. **Jeyaparvathi S.**, Manikandan K., Baskaran S., and Ga. Bakavathiappan. 2012. Studies on the properties of spider silk. *Advances in Applied Science Research.*, **3**(6):3452-3454.
11. **Jeyaparvathi, S.**, Baskaran, S. and M. K. Rajan. 2012. Population dynamics of spiders in selected cotton fields of Virudhunagar district, Tamil Nadu, India. *Applied Zoology*, p. 182-186.
12. **Jeyaparvathi\***, S., Baskaran, S. and Ga. Bakavathiappan. 2013. Biological control potential of spiders on the selected cotton pests. *International journal of pharmacy & life sciences*, **4** (4): 2568-2572.
13. **Jeyaparvathi\*, S. and Umayal Parvathi, M.** 2013. Efficacy of selected plant extracts in the okra pest, *Zonabris pustulata* (Thunberg). *African Journal of Agricultural Research*, **8** (29): 3893-3897.
14. Mahalakshmi R. and **Jeyaparvathi S.** 2014. Diversity of Spider Fauna in the Cotton Field of Thailakulam, Virudhunagar District, Tamil Nadu, India. *The Journal of Zoology Studies*. **1**(1): 12-18.
15. **Jeyaparvathi S.\***, Umayal P.M., Baskaran S. and Bakavathiappan G.A. Efficacy of selected plant extracts in the okra pest, *Zonabris pustulata* (THUNBERG) *World Research Journal of Pharmaceutical Research*, 2013, **1**(1): 16-20.
16. **Jeyaparvathi S.\***. 2014. Population dynamics of spiders in Ayya Nadar Janaki Ammal College Campus, Sivakasi, Virudhunagar District, Tamil Nadu, India. *The Journal of Zoology Studies*, **1**(1): 01-04.

## TRAINING ATTENDED

1. Attended short term “**Molecular Biology**” training at **Maharshi Dayanand University**, Rohtak, **Haryana**.
2. Attended NRCBS training at **Madurai Kamaraj University**, Madurai.
3. Attended training on “**Medical Microbiology**” at **Jay Pee University of Information Technology**, Himachal Pradesh.
4. Attended **Workshop on Human/Cancer Cell Culture Techniques & MTT Assay**, **International Center for Stem Cells, Cancer and Biotechnology (ICSCCB)**, Pune, India
5. Attended training on **BIRAC – NBM ‘Empowering the ‘Changemakers in Biopharma Sector’** held at **KIIT-TBI, Bhubaneshwar** from March 3 – 5, 2020.

## M.Sc. PROJECTS GUIDED

1. Population dynamics of predatory spiders and pests in cotton ecosystem.
2. Studies on the predatory spiders in Ayya Nadar Janaki Ammal College campus, Sivakasi.
3. Efficacy of selected plant extracts in the okra pest, *Zonabris pustulata* (Thunbrg).
4. A study on the diversity of spiders in the selected cotton fields of Virudhunagar district.
5. Antimicrobial activity of spider venom against human pathogens.
6. A study on the morphometric, biochemical and functional characterization of web and silken thread of the spider *Argiope argentata* (Fabricius, 1775).
7. A study on the morphometric, biochemical and functional characterization of web and silk gland of the spider *Argiope anasuja* (Thorell, 1887).
8. Isolation and characterisation of silk protein of the spider spider *Argiope anasuja* (Thorell 1887).
9. Biochemical and functional characterization of venom and haemolymph of the spider *Argiope aurantia*.

## M. Phil. PROJECTS GUIDED

1. Studies on the predatory spiders and their webs in cotton ecosystem.
2. Studies on the population dynamics of spiders and the antimicrobial activity of spider venom.

## Instruments

- BOD (Biochemical Oxygen Demand or Biological Oxygen Demand) Incubator
- Laminar Air Flow/Biosafety Cabinets
- Aseptic Hood
- Autoclave
- Hot Air Oven
- Deep Freezer (–20 °C) (Low-Temperature Cabinet)
- Refrigerator
- Compound Microscope
- Digital Colony Counter
- Digital Turbidity Meter
- Digital Nephelometer
- Digital PhotoColorimeter
- Digital UV/Visible Spectrophotometer
- Polymerase Chain Reaction
- ELISA Reader
- Sonicator

## **Molecular Biology**

- Enzyme Assay: Qualitative and Quantitative
- Antimicrobial Sensitivity Assay
- Extraction of DNA from Plant Cells
- Extraction of DNA from Animal Cells
- Extraction of DNA and RNA from Microorganism
- Quantitative Estimation of DNA and RNA

## **Microbiology**

- Sterilization of Glassware; Preparation and Sterilization of Media
- Sub-culturing of Bacteria, Fungi and Actinomycetes
- Preservation of Microorganisms: Stabs, Slants, Lyophilization and Cryopreservation
- Staining Methods – Simple Staining, Negative Staining, Gram's Staining and Acid-Fast Staining
- Isolation of Coprophilous Fungi (Moist Chamber Method)
- Isolation of Microorganisms from Air
- Motility Testing – Hanging Drop Method and Stab
- Sterility Testing of Pharmaceuticals
- Physical, Chemical and Bacteriological Analysis of Water
- To Perform Biochemical Identification of Microorganism: IMViC (Oxidative Fermentation and Carbohydrate Source Utilization)
- To Perform Biochemical Identification of Microorganism by Nitrogen Source Utilization or Urease Test
- Immobilization of Enzymes and Microorganisms

## **Biochemistry**

- Qualitative Systematic Analysis of Carbohydrates (Glucose, Fructose, Lactose, Maltose, Sucrose and Starch)
- Protein Analysis in Food
- Identification Tests for Proteins
- Quantitative Analysis of Reducing Sugars
- Quantitative Analysis of Proteins by Various Methods Including Biuret
- Qualitative Analysis of Urine for Abnormal Constituents.
- BOD (Biochemical Oxygen Demand or Biological Oxygen Demand) Incubator
- Laminar Air Flow/Biosafety Cabinets
- Aseptic Hood
- Autoclave
- Hot Air Oven
- Deep Freezer ( $\pm 20^{\circ}\text{C}$ ) (Low-Temperature Cabinet)
- Refrigerator
- Compound Microscope
- Digital Colony Counter
- Digital Turbidity Meter
- Digital PhotoColorimeter
- Digital UV/Visible Spectrophotometer
- Polymerase Chain Reaction

- ELISA Reader

## **MEMBERSHIP**

### **AyyaNadarJanakiAmmal College**

Member of **Placement cell**, ANJA College, Sivakasi.  
 Member of **Women cell**, ANJA College, Sivakasi.  
 Member of **CTEL (Centre for Technology Enhanced Learning)**, ANJA College, Sivakasi.  
 Member of **Nature Club**, ANJA College, Sivakasi.  
 Member of **RRC (Red Ribbon Club)**, ANJA College, Sivakasi.

### **Lady Doak College**

Convenor of **LDC Ecobrigade**  
 Member in **Environmental Study Centre**  
 Convenor of **Club activities**  
 Convenor of **Animal Ethical Committee**  
 Library in charge  
 Project in charge  
 Students Summer Training in charge  
 Staff club in charge

## **Editor**

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## **Details of patents**

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## **References**

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