



Dr. S. GOMATHY

Assistant Professor,
Department of Zoology,
V.O.C. College,
Thoothukudi - 8.

Email: gomathyapcm@gmail.com

Education : M.Sc., M.Phil., Ph.D.,

Specialization : Ascidian Pharmacology

Education and Credentials

DEGREE	COLLEGE / UNIVERSITY	YEAR
Ph.D.,	PG and Research Department of Zoology, V.O. Chidambaram College, Tuticorin, M.S.University.	2014
M. Phil.,	Annamalai University	2008
M. Sc.,	PG and Research Department of Zoology, V.O. Chidambaram College, Tuticorin, M.S.University.	2002
B. Sc.,	A.P.C. Mahalaxmi College for Women, Tuticorin, M.S. University.	2000

Project work	
Title of M.Phil. , Dissertation	: Toxicity of selected insecticide and plant extracts against two species of mosquitoes. (Diptera: Culicidae)
Name and Designation of the Research Supervisor	: Dr. M.Vaitheswaran, Associate Professor, PG and Research Department of Zoology, V.O. Chidambaram College, Tuticorin.
Title of Ph.D. , Thesis	: Chemical screening and pharmacological evaluation of ascidians
Name and Designation of the Research Supervisor	: Dr.V.K. Meenakshi, Associate Professor, Department of Zoology, A.P.C.Mahalaxmi College for Women, Tuticorin.

Experience	
Teaching	: 9 years (Lecturer, A.P.C. Mahalaxmi College for Women, Thoothukudi)
Research	: 9 years
Method of Teaching	: LCD, OHP, Animated slide show and video clippings from YOUTUBE, Display of live samples and Museum specimens in the class room, Practical lessons through demonstration

Research Publications	: 40 - Annexure i
Conference/Seminar/ Workshop organised	: 4 - Annexure ii
Details of Conference/Seminar	: International National State Total
Attended - Annexure iii a	: 3 17 2 22
Paper Presentation - Annexure iii b	: 2 4 - 6
Poster Presentation - Annexure iii c	: 1
Workshop/Training Programme-Annexure iv	: 4

LIST OF PUBLICATIONS

1. **Gomathy, S.**, and Vaitheeswaran, M. 2009. Toxicity of Malathion, *Vitex negundo* and *Acorus calamus* to the developmental stages of *Culex quinquefasciatus*. *Enrich*. 1(1): 81-88.
2. Senbagadevi, G., Tamilselvi, M., Muthukaliammal, R., Meenakshi, V.K., and **Gomathy, S.** 2010. Biomedical and nutritive value of selected shell fishes (Arthropoda) of Tuticorin coast. *Enrich*. 2(1): 57 -70.
3. Meenakshi, V. K., Gomathy, S., and Chamundeswari, K. P. 2012. GC-MS analysis of the simple ascidian *Microcosmus exasperatus* Heller, 1878. *International Journal ChemTech Research*. 4(1): 55-62.
4. Meenakshi, V. K., **Gomathy, S.**, and Chamundeswari, K. P. 2012. Acute and subchronic oral toxicity of *Microcosmus exasperatus* Heller, 1878. *Journal of Microbiology and Biotechnology Research*. 2(1): 94-98.
5. Meenakshi, V. K., Paripooranaselvi., M., **Gomathy, S.**, and Chamundeswari, K. P. 2012. GC-MS analysis of the ethanolic extract of *Phallusia nigra* Savigny, 1816. Proceedings of National Conference on Frontiers In Spectroscopy 2012. 12-20.
6. Meenakshi, V. K., **Gomathy, S.**, Paripooranaselvi., M., and Chamundeswari, K. P. 2012. Antidiabetic activity of the ethanol extract of simple ascidian, *Microcosmus exasperatus* Heller, 1878. *International Journal of Chemical and Pharmaceutical Sciences*. 3(2): 33-39.
7. Meenakshi, V. K., Paripooranaselvi., M., **Gomathy, S.**, and Chamundeswari, K. P. 2012. Antiproliferative activity of *Phallusia nigra* Savigny, 1816 against Dalton's Lymphoma Ascites. *International Journal of Chemical and Pharmaceutical Sciences*. 3(2): 70-75.
8. Shanmuga priya, D., Meenakshi, V.K. Paripooranaselvi, M., **Gomathy, S.**, Senthamarai, S., and Chamundeswari, K.P. 2012. Phytochemical investigation of the simple ascidian *Phallusia nigra* Savigny, 1816 of Tuticorin coast. *Proceedings of 8th all India Conference of KAAS -2012*. Vol. III Sciences, Zoo 1-5.
9. Paripooranaselvi, M., Meenakshi, V.K., Shanmuga priya, D., **Gomathy, S.**, Senthamarai, S., and Chamundeswari, K.P. 2012. Ascidian Biofouling. *Proceedings of 8th all India Conference of KAAS -2012*. Vol. III Sciences, Zoo 6-13.
10. Senthamarai, S., Meenakshi, V.K., **Gomathy, S.**, Paripooranaselvi, M., Shanmuga priya, D., and Chamundeswari, K.P. 2012. Antibacterial activity of ascidian *Microcosmus*

exasperatus against human pathogens. *Proceedings of 8th all India Conference of KAAS - 2012*. Vol. III Sciences, Zoo 14-22.

11. **Gomathy, S.**, Meenakshi, V.K., Senthamarai, S., Shanmugapriya, D., Paripooranaselvi, M., and Chamundeswari, K.P. 2012. Studies on the distribution of ascidians. *Proceedings of 8th all India Conference of KAAS -2012*. Vol. III Sciences, Zoo 23-31.
12. Meenakshi, V.K., **Gomathy, S.**, Senthamarai, S., Paripooranaselvi, M., and Chamundeswari, K.P. 2012. GC-MS Determination of the bioactive components of *Microcosmus exasperatus* Heller, 1878. *Journal of Current Chemical and Pharmaceutical Sciences*. 2(4): 271-276.
13. Meenakshi, V.K., **Gomathy, S.**, Senthamarai, S., Paripooranaselvi, M., and Chamundeswari, K.P. 2012. Analysis of vitamins by HPLC and phenolic compounds, flavonoids by HPTLC in *Microcosmus exasperatus*. *European Journal of Zoological Research*. 1(4): 105-110.
14. Meenakshi, V.K., Senthamarai, S., Paripoorana Selvi, M., **Gomathy, S.**, Shanmuga Priya, D., and Chamundeswari, K.P. 2012. Antibacterial activity of simple ascidian *Ascidia sydneyensis* (Family: Ascidiidae) against human pathogens. *Journal of Microbiology and Biotechnology Research*. 2 (6): 894-899.
15. Meenakshi, V.K., Paripooranaselvi, M., Senthamarai, S., **Gomathy, S.**, and Chamundeswari, K.P. 2012. Antitumor and immunomodulatory activity of *Phallusia nigra* Savigny, 1816 against Ehrlich ascites carcinoma. *Research Journal of Pharmaceutical Sciences*. 1(2): 7-12.
16. Meenakshi, V.K., Paripooranaselvi, M., Senthamarai, S., **Gomathy, S.**, and Chamundeswari, K.P. 2013. Immunomodulatory activity of ethanol extracts of *Phallusia nigra* Savigny 1816, against Dalton's lymphoma ascites. *European Journal of Applied Engineering and Scientific Research*. 2(1): 20-24.
17. Meenakshi, V.K., Paripooranaselvi, M., Sankaravadivu, S., **Gomathy, S.**, and K.P. Chamundeewari. 2013. Immunomodulatory activity of *Phalusia nigra* Savigny, 1816 against S-180. *International Journal of Current Microbiology and Applied Sciences*. 2(8): 286-295.
18. Meenakshi, V.K., **Gomathy, S.**, Senthamarai, S., Paripooranaselvi, M., and Chamundeswari, K.P. 2013. Hepatoprotective activity of the ethanol extract of simple ascidian, *Microcosmus exasperatus* Heller, 1878. *European Journal of Zoological Research*. 2(4): 32-38.

19. Meenakshi, V.K., Senthamarai, S., Paripooranaselvi, M., **Gomathy, S.**, Sankaravadivu, S., and Chamundeswari, K.P. 2013. In vitro and in vivo antitumor and immunomodulatory studies of *Microcosmus exasperatus* against DLA bearing mice. *European Journal of Applied Engineering and Scientific Research*. 2(3): 18-25.
20. Meenakshi, V.K., Shanmuga Priya, D., **Gomathy, S.**, Paripooranaselvi, M., Senthamarai, S., and Chamundeswari, K.P. 2013. Acute and sub-chronic studies on the toxicity of crude methanolic extract of *Phallusia nigra* Savigny, 1816. *International Journal of Chemical and Pharmaceutical Sciences*. 4(2): 64-68.
21. Meenakshi, V.K., Delighta Mano Joyce, M.I., Paripooranaselvi, M., and **Gomathy, S.** 2013. CNS depressant activity of the simple ascidian *Microcosmus exasperatus* Heller, 1878. *International Journal of Current Microbiology and Applied Sciences*. 2(10): 16-25.
22. **Gomathy, S.**, Meenakshi, V.K., Senthamarai, S., Paripooranaselvi, M., Chamundeswari, K.P and Delighta Mano Joyce, M. I. 2013. Chemical screening of the simple ascidian *Microcosmus exasperatus*. *In the Proceedings of Second International Conference of KAAS -2013*. Vol. III Sciences, Zoo 17-21.
23. Paripooranaselvi, M., Meenakshi, V.K., Senthamarai, S., **Gomathy, S.**, and Chamundeswari, K.P. Cytotoxicity of *Phallusia nigra* Savigny, 1816 to Human Cell Lines. *In the Proceedings of Second International Conference of KAAS -2013*. Vol. III Sciences, Zoo 22-27.
24. Meenakshi, V.K., Paripooranaselvi, M., Senthamarai, S., **Gomathy, S.**, Sankaravadivu, S., and Chamundeewari, K.P. 2014. Antitumor effect of ethanolic extract of *Phallusia nigra* Savigny, 1816 on S-180 tumor bearing mice. *International Journal of Pharmacological Screening Method*. 4(1): 20-25.
25. Meenakshi, V.K., Paripooranaselvi, M., **Gomathy, S.**, Senthamarai, S., Chamundeewari, K.P., and Sankaravadivu, S. 2014. Immunostimulating activities of *Phallusia nigra* Savigny, 1816 on sarcoma-180 tumor-bearing mice. *International Journal of Medicinal Chemistry and Analysis*. 4(2): 62-69.
26. Meenakshi, V.K., **Gomathy, S.**, Paripooranaselvi, M., Senthamarai, S., and Chamundeswari, K.P. 2014. Antifertility activity of simple ascidian, *Microcosmus exasperatus* Heller, 1878. *International Journal of Pharmaceutical Sciences Review and Research*. 24(1): 230-236.
27. Meenakshi, V.K., **Gomathy, S.**, Paripooranaselvi, M., Senthamarai, S., and Chamundeswari, K.P. 2014. Pharmacognostical evaluation and chemical screening of

- Microcosmus exasperatus*. *International Journal of Phytopharmacy Research*. 5(2): 80-86.
28. Meenakshi, V.K., Delighta Mano Joyce, M.I., Paripooranaselvi, M., and **Gomathy, S.** 2014. Protective Effect of *Microcosmus exasperatus* against isoproterenol induced myocardial ischemia- A biochemical and histopathological approach. *International Journal of Pure and Applied Bioscience*. 2(1): 62-70.
 29. Meenakshi, V.K., Delighta Mano Joyce, M.I., Paripooranaselvi, M., and **Gomathy, S.** 2014. Antihyperlipidemic Activity of *Microcosmus exasperatus* Heller, 1878, *Journal of Chemical, Biological and Physical Sciences*. 4(3): 1379-1387.
 30. Meenakshi, V.K., Senthamarai, S., and **Gomathy, S.** 2014. *Polysyncraton* Nott, 1892 an unrecorded genus of the family Didemnidae from India, *Journal of Chemical, Biological and Physical Sciences*. 4(4): 3243-3246.
 31. Paripooranaselvi, M., Meenakshi, V.K., and **Gomathy, S.** 2015. Inhibition of HLCA-549 cell proliferation and survival by ethanolic extract of *Phallusia nigra* Savigny, 1816, *European Journal of Biomedical and Pharmaceutical Sciences*. 2(2): 216-230.
 32. Delighta Mano Joyce, M.I., Meenakshi, V.K., Paripooranaselvi, M., and **Gomathy, S.** 2015. Anaesthetic, analgesic and antipyretic activities of *Microcosmus exasperatus* Heller, 1878, *World Journal of Pharmaceutical Research*. 4(7): 1770-1779.
 33. Senthamarai, S., Meenakshi, V.K., and **Gomathy, S.** 2015. New records of six species of the genus *Eudistoma* Caullery, 1909 from Indian waters. *International Journal of Advanced Life Sciences*. 8(4): 499-508.
 34. Delighta Mano Joyce, M.I., Meenakshi, V.K., Paripooranaselvi, M., and **Gomathy, S.** 2015. Evaluation of anti-inflammatory activity of *Microcosmus exasperatus*, *European Journal of Pharmaceutical and Medical Research*. 2(4): 682-692.
 35. Meenakshi, V.K., **Gomathy, S.**, Eswari, A., Kavitha, K., and Muthumani, M. 2015. Chemical screening of a few marine edible fishes of Tuticorin coast. *Enrich*. 6(2): 80-87.
 36. Delighta Mano Joyce, M.I., Meenakshi, V.K., Paripooranaselvi, M., and **Gomathy, S.** 2015. Wound Healing Activity of the ethanolic extract of *Microcosmus exasperatus* Heller, 1878, *Journal of Environmental and Applied Bioresearch*. 3(4): 226 - 229.
 37. **Gomathy, S.**, and Meenakshi, V.K. 2016. Antifertility activity of simple ascidian, *Microcosmus exasperatus* - A histopathological approach. *European Journal of Biomedical and Pharmaceutical Sciences*. 3(12): 431-437.

38. Senthamarai, S., Meenakshi, V.K., and **Gomathy, S.** 2016. New records of two species of the genus *Leptoclinides* Bjerkan, 1905 from Indian waters. *World Journal of Pharmaceutical and Life Sciences*. 2(2): 196-204.
39. Senthamarai, S., Meenakshi, V.K., and **Gomathy, S.** 2016. Description of ten species of the family Didemnidae Giard, 1872 from Gulf of Mannar. *International Journal of Zoology Studies*. 1(5): 13-24.
40. Meenakshi, V.K., and **Gomathy, S.** 2017. Habitat destruction and ascidian biodiversity loss - An assessment. *International Journal of Life Sciences*. 5(1): 55-62.

Conference / Seminars/ Workshop Organized

1. Seminar on Modern Trends in Biotechnology organized by the Department of Advanced Zoology and Biotechnology, A.P.C. M. College for Women, Thoothukudi on 19.03.2009.
2. State level workshop on Nurturing the spirit of Research among Undergraduate Students organized by the Department of Zoology, A.P.C. Mahalaxmi College for Women, Thoothukudi on 27.01.2011.
3. National Seminar on Marine Conservation held at A.P.C. M. College for Women, Thoothukudi on 18.09.2013.
4. National Seminar on Marine resources: Utilization, Exploitation and Conservation organized by the Department of Zoology, A.P.C. M. College for Women, Thoothukudi on 23.08.2016.

Conference / Seminars attended

International

1. Second International Conference of KAAS organized by Kanniyakumari Academy of Arts and Science (KAAS) and Sree Ayyappa College for Women, Chunkankadai, KK District on 21.09.2013.
2. International Conference on Challenges and opportunities in life sciences organized by Department of Zoology, Sri Meenakshi Government Arts College for Women, Madurai on 5,6.04.2016.
3. International seminar on Materials science and Technology organized by the Department of Chemistry, A.P.C. M. College for Women, Thoothukudi on 28.12.2016.

National

1. National Seminar on Recent Developments in Biology organized by the Department of Zoology and Department of Botany, V.O. Chidambaram College, Thoothukudi on 30, 31.07.2001.
2. National Awareness Campaign on Information Security sponsored by the Department Information Technology, Government of India, New Delhi and Centre for Development of Advanced Computing, Hyderabad held at A.P.C. Mahalaxmi College for Women, Thoothukudi on 28.09.2010.
3. National Seminar on Recent Trends in Bioresources Conservation and Management (RTBCM) – 2010 organized by the Department of Advanced Zoology and Biotechnology, Aditanar College of Arts and Science, Tiruchendur on 15.10.2010.
4. National Seminar on Nature and Biodiversity Conservation organized by the Department of Plant Biology and Biotechnology and Department of Advanced Zoology and Biotechnology, Sadakatullah Appa College, Tirunelveli on 31.01.2011.
5. National Seminar on Truth Behind Recent Consortium in Nutrition organized by the Department of Food Science and Nutrition, Holy Cross Home Science College, Thoothukudi on 09.12.2011.
6. National Conference on Lifestyle Modification towards management of Diabetes organized by Panacea Health Education in collaboration with Holy Cross Home Science College, Thoothukudi on 04.02.2012.

7. Eighth all India Conference of Kanniyakumari Academy of Arts and Science (KAAS) organized by Sree Ayyappa College for Women and KAAS, Chunkankadai, KK District on 5, 6.10. 2012.
8. National Seminar on Marine Conservation organized by the Department of Zoology held at A.P.C. M. College for Women, Thoothukudi on 18.09.2013.
9. National Symposium on Marine Environmental Conservation organized by the PG and Research Department of Zoology held at V. O. C. College, Thoothukudi on 10,11,12.12.2014.
10. National seminar on Current Trends in Chemistry organized by the Department of Chemistry, A.P.C. M. College for Women, Thoothukudi on 4,5.02.2015.
11. National Seminar on Mitigation of climate change organized by IQAC, Sri Sarada College for women, Tirunelveli on 15.09.2015.
12. National Seminar on Recent Innovations and Developments in Biological Science Department of Zoology, Sadakatullah Appa College, Tirunelveli on 20.10.2015.
13. National Seminar on Marine resources: Utilization, Exploitation and Conservation organized by the Department of Zoology, A.P.C. M. College for Women, Thoothukudi on 23.08.2016.
14. National Conference on Emerging Infectious Diseases and Curative Measures organized by the PG Department of Microbiology, Kamaraj College, Thoothukudi on 22,23.12.2016.
15. National Seminar on Current Scenario in Plant Sciences organized by the PG and Research Department of Botany held at V. O. C. College, Thoothukudi on 29.12.2016.
16. National Conference on The Whole Earth organized by Department of Botany, Kamaraj College & Annammal College of Education, Thoothukudi on 14.02.2017.
17. National Seminar on E – Waste Hazards and Management organized by Centre for Eco Feminine Excellence, St. Mary's College, Thoothukudi held on 09.03.2017.

State Level

1. Seminar on Modern Trends in Biotechnology organized by the Department of Advanced Zoology and Biotechnology, A.P.C. M. College for Women, Thoothukudi on 19.03.2009.
2. Seminar on Current Trends in Nature Conservation conducted by the Department of P.G. Zoology, Aditanar College of Arts and Science, Tiruchendur on 21.02.2017.

Papers Presented in Conference / Seminars

International

1. Chemical screening of the simple ascidian *Microcosmus exasperatus* in Second International Conference of Kanniyakumari Academy of Arts and Science, Chunkankadai, KK District, 2013.
2. Challenges and opportunities in life sciences in International Conference organized by Department of Zoology, Sri Meenakshi Government Arts College for Women, Madurai on 5,6.04.2016.

National

1. Studies on the distribution of ascidians in Eighth all India Conference of Kanniyakumari Academy of Arts and Science, Chunkankadai, KK District, 2012.
2. Spectrophotometric Studies of a Simple Ascidian *Microcosmus Exasperatus* in National seminar organized by the Department of Chemistry, A.P.C. M. College for Women, Thoothukudi on 5.02.2015
3. Determination of Flavonoids and Phenols in *Microcosmus exasperatus* by Spectrophotometry in national Seminar organized by Department of Zoology, Sadakatullah Appa College, Tirunelveli on 20.10.2015.
4. Screening of three species of colonial ascidians for antibacterial activity to urinary tract pathogens in National Conference organized by the PG Department of Microbiology, Kamaraj College, Thoothukudi on 22.12.2016.

Posters Presented in Conference / Seminars

1. Ascidians from trawl discards as resource for pharmaceutically potent products in International seminar organized by the Department of Chemistry, A.P.C. M. College for Women, Thoothukudi on 28.12.2016.

Training Programme/ Workshop attended

1. State level workshop on Nurturing the spirit of Research among Undergraduate Students organized by the Department of Zoology, A.P.C. Mahalaxmi College for Women, Thoothukudi on 27.01.2011.
2. e – Literacy conducted by ICT academy of Tamil Nadu held at A.P.C. Mahalaxmi College for Women, Thoothukudi on 10, 11.09.2011.
3. Workshop on Research with Biomolecules organized by the Department of Zoology and Research centre, V.O. Chidambaram College, Thoothukudi and Biolim Centre for Life Science, Chennai on 28, 29.02.2012.
4. National workshop on Radiochemistry conducted in collaboration with Indian Association of Nuclear Chemicals and Allied Scientists, c/o Indira Gandhi centre for Atomic Research, Kalpakkam and Heavy water Plant, Thoothukudi held at A.P.C. Mahalaxmi College for Women, Thoothukudi on 21.12.2012.