

## **CURRICULUM VITAE**



Name **V. Sornalakshmi MSc., MPhil., PhD**  
Assistant Professor of Botany  
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Date of Joining 24-08-2017

### Academic Profile

COURSE	INSTITUTE	YEAR	MARKS	CLASS
SSLC	Victory Girls' Hr. Sec. School, Thoothukudi.	1993	76%	First
H.Sec [+2]	Victory Girls' Hr. Sec. School, Thoothukudi.	1995	69%	First
B.Sc., [Botany]	St. Mary' College, Thoothukudi.	1998	65%	First
M.Sc., [Botany]	St. Mary' College, Thoothukudi.	2000	67%	<u>seventh rank.</u> First
M. Phil., [Botany]	St. Mary' College, Thoothukudi.	2002	79%	First
Ph. D	V.O. Chidambaram College, Thoothukudi.	2011	-	-

### Ph. D. Thesis Title: A STUDY ON THE IMPACT OF POLLUTANTS ON THE GROWTH AND BIOCHEMICALS OF SOME SEAWEEDS

- ✧ Higher Degree Achieved : Ph. D.
- ✧ Total No. of Paper Published : 22+3 (3 communicated)
- ✧ Total No. of Book Chapter : 12 (3 published + 9 accepted)
- ✧ Researchgate Scores : 7.43
- ✧ Researchgate Citations : 5
- ✧ Google Scholar Citation : 3
- ✧ h- index : 1
  
- ✧ Teaching Experience (UG & PG) : 9 Years
- ✧ Research Experience : 7 Years
- ✧ Research Specialization : Seaweeds & Ethnopharmacology

### Working experience

Post	College	Duration
1. Assistant Professor	V.O.Chidambaram College. Thoothukudi	June 2009 - August 2017
2. Assistant Professor	A.P.C. Mahalakshmi college for women	August 24 – till Date.

**Seminars / Conference / Symposium / Workshop participated and papers/posters presented**

1. Participated in symposium organized by Sri Paramakalyani Centre for Environmental Sciences, alwarkurichi on 11-04-2001.
2. Participated in National Symposium on Recent Trends in organized by Department of Biotechnology, Malankara Catholic College, Kaliakavilai on 27-28<sup>th</sup> January, 2003.
3. Participated in State level Seminar on Religion for peace and Harmony (An inter – faith dialogue) organized by St. Mary's College, Thoothukudi on 3<sup>rd</sup> – 5<sup>th</sup> March, 2003.
4. **Presented a paper** in National Conference on Global climatic change and its impact on biodiversity organized by Department of Plant Biology and Biotechnology, St. Xavier' College, Palayamkottai on 19 -20, 2009.
5. Participated in National Seminar on Marine Resources- Sustainable Utilization and Conservation (UGC sponsored) organized by Department of Plant Biology and Plant Biotechnology, St. Mary's College (Autonomous), Thoothukudi on 11-12<sup>th</sup> December, 2009.
6. Participated in National Seminar on Youth for Green Environment and Sustainable Future organized by Department of Plant Biology and Plant Biotechnology, St. Mary's College (Autonomous), Thoothukudi on 17-18<sup>th</sup> September, 2010.
7. Participated in National Seminar on Forest- Its Conservation organized by Research Departments of Zoology & Botany, V.O.Chidambaram College, Thoothukudi on 5<sup>th</sup> July, 2011.
8. Participated in National Conference on Environment and sustainable development: Issues and challenges organized by Department of Plant Biology and Plant Biotechnology, G.Venkataswamy Naidu College, Kovilpatti on 22-23 February 2013.

9. Participated in National Seminar on Marine Conservation organized by Department of Zoology A.P.C. Mahalaxmi College, Thoothukudi on 18<sup>th</sup> September, 2013.
10. Participated in State Level Workshop on “Techniques in Plant Taxonomy and Anatomy” organized by PG & Research Department of Botany, St. John’s College, Palayamkottai on 7<sup>th</sup> & 8<sup>th</sup> August 2014.
11. Participated in ABI Group of Companies sponsored One Day seminar on “Pollution-Prevention Better than Remediation” organized by PG & Research Departments of Zoology and Botany, V.O.Chidambaram College, Thoothukudi on 17<sup>th</sup> October, 2014.
12. Participated in National Workshop on “Petroleum Exploration” organized by PG & Research Department of Geology and Conservation of Marine Environment, V.O.Chidambaram College, Thoothukudi on 18<sup>th</sup> & 19<sup>th</sup> October, 2014.
13. **Presented a paper** entitled “**Nutritive properties of some seaweeds from Tuticorin Coast.**” in UGC sponsored National Seminar on Plant Genetic Resources: Utilization and Conservation organized by PG & Research Department of Botany, V.O.Chidambaram College, Thoothukudi in collaboration with Gandhigram rural University, Dindigul on 12<sup>th</sup> & 13<sup>th</sup> February, 2015.
14. Participated in TANSCHÉ sponsored State level seminar on “Beginning PERL for Bioinformatics” organized by Department of Botany, VHNSN College, Virudhunagar on 28<sup>th</sup> February, 2015.
15. Participated in ONGC and APG (Southern Chapter), Chennai sponsored National Workshop on “Shallow Subsurface Prospecting” organized by PG & Research Department of Geology V.O.Chidambaram College, Thoothukudi on 11<sup>th</sup> & 12<sup>th</sup> December, 2015.
16. Participated in National seminar on ‘New Vistas in Chemistry’ organized by Department of Chemistry, A. P. C. Mahalaxmi College for women, Thoothukudi on 21<sup>st</sup> December, 2015.
17. Participated in one day UGC sponsored national seminar on “Recent Innovations and Developments in Biological Science (BIO-RID-2015)” organized by Department of Zoology, Sadakathullah Appa College (Autonomous), Tirunelveli on 20<sup>th</sup> October 2015.
18. **Presented a paper** entitled “**Pigment Content Of Seaweeds Collected From Tuticorin Coast,Gulf Of Mannar Biosphere Reserve**” in two day National Conference on Frontiers in Ecobiological Sciences and its Applications - FESA-2016 organized by School of Life Sciences, Periyar University on 17-18, March 2016.
19. **Presented a paper** entitled “***In vitro* antioxidant evaluation of *Hypnea musciformis***” in

National seminar on Marine resources; Utilization, Exploration and Conservation organized by the Department of Zoology A. P. C. Mahalaxmi College for women, Thoothukudi on 23<sup>rd</sup> August 2016.

20. Participated in two days Workshop on 'Recent trends in Biological Sciences organized by Department of Microbiology, Kamaraj college, Thoothukudi on 17<sup>th</sup> and 18<sup>th</sup> August, 2016.
21. Participated in two days Workshop on "Effect of National Education Policy 2016 in the Present Scenario" held on 8<sup>th</sup> and 9<sup>th</sup> September, 2016 at V.O.C. College of Education, Thoothukudi .
22. Participated in IASC, INSA and NASI sponsored two days Science Academies' Lecture Workshop on 'Current Scenario in Plant Sciences' (CSPS-2016) held at V.O.Chidambaram College, Thoothukudi on 28<sup>th</sup> and 29<sup>th</sup> December, 2016.
23. Participated in National Conference on 'SMART SUMMIT-2016' on December 10, 2016 organised by the PEARL – A foundation for educational excellence at Fortune Pandian Hotel, Madurai.
24. **Presented a paper** entitled "*Evaluation of in vitro antioxidant activity of Hypericum mysorens*" in 2<sup>nd</sup> National Conference on 'Frontiers in Ecobiological Sciences and its Applications (FESA-2017) Theme: Environmental Security' organized by the School of Life Sciences, Periyar University, Salem on March 16 & 17, 2017.
25. **Presented a paper** entitled "*Antioxidant activity of Acanthophota spicifera*" in 'National Symposium on Algal Diversity and Resource: Current trends in utilization and prospects for Innovation' held at V. O. Chidambaram college, Tuticorin on September 21-23, 2017.
26. **Presented a paper** entitled "*Effects of season on the yield and properties of agar from Gracilaria corticata*" International Conference on Recent Advancements in Information Technology, Science and Engineering (ICRAITSE - 17) held at A.P.C. Mahalaxmi College for Women, Thoothukudi on 14<sup>th</sup> and 15<sup>th</sup> December 2017.

#### **LIST OF PAPERS PUBLISHED/ACCEPTED/COMMUNICATED**

1. **Sornalakshmi V** Jeba Ananthi K Athiperumalsamy and Venkataraman Kumar. 2009. Effect of heavy metal copper on the growth and biochemicals of some seaweeds of Tuticorin coast. Seaweed Research and Utilization 31(1&2):81-84. (UGC Approved)

2. **Sornalakshmi V** Jebaananthi K and Venkataraman Kumar. 2010. Impact of different pollutant on growth and biochemicals of *Caulerpa scalpelliformis*. Seaweed Research and Utilization. 32(1&2:47-52). (**UGC Approved**)
3. Jebaananthi, K, **Sornalakshmi, V** and Venkataraman Kumar. Comparative study on the effect of Ulva lactuca liquid fertilizer by different methods of extraction on Vigna radiata seedlings. 2010. Seaweed Research and Utilization 31(1&2):69-74. (**UGC Approved**).
4. **Sornalakshmi V** and Venkataraman Kumar. 2012. Effect of UV-B radiation on growth and biochemicals of some seaweeds of Tuticorin coast. Indian Hydrobiology, 15 (1):95-102.
5. **Sornalakshmi V** Jeevitha M and Venkataraman Kumar. 2012. Impact of heavy metal lead on growth and biochemicals of some seaweeds of Tuticorin coast. Seaweed Research and Utilization. 34(1&2:45-51). (**UGC Approved**)
6. Jebaananthi, K., **Sornalakshmi, V.**, Jeevitha, M. and Venkataraman Kumar. 2012. Effect of *Syringodium isoetifolium* SGLF on water stressed cowpea. *Seaweed Res. Utiln.*, Vol: 34 (1&2): 138-148. (**UGC Approved**)
7. **Sornalakshmi V** Muthumari and Venkataraman Kumar. 2014. Effect of UV-B radiation on biochemicals of some brown algae. Seaweed Research and Utilization. 36(1&2:11-17). (**UGC Approved**)
8. **Sornalakshmi V** and Venkataraman Kumar. 2014. Effect of fly ash on the growth and biochemicals of some seaweed. Bioscience Discovery, 5(1):01-05, Jan. 2014. (**Impact factor:3.42**)
9. **Sornalakshmi, V.**, J. Ananthi and Venkataraman Kumar. 2015. Nutritive properties of some seaweeds from Tuticorin coast. Outreach. Vol. VII special Issue: Proceedings of the UGC Sponsored Two Day National Seminar on “Plant Genetic Resources: Utilization and Conservation 195-199. (**Impact Factor: 6.531**)
10. **Sornalakshmi. V.**, S. Sivalakshmi and Venkataraman Kumar. 2015. Effect of UV-B treatment on biochemicals of some seaweeds of Tuticorin coast. Out reach 8:216-226. (**Impact Factor: 6.531**)
11. **Sornalakshmi. V.**, P. S. Tresina, M. Packia Lincy, K. Paulpriya and V. R. Mohan. 2016. Evaluation of *in vitro* antioxidant properties of *Hedyotis leschenaultiana* DC (Rubiaceae)

*International Journal of Pharmaceutical Science Review and Research*. (**Impact Factor: 2.191 Indexed in: Scopus and Elsevier**) 36: 114-119.

12. **Sornalakshmi. V.**, P. S. Tresina, K. Paulpriya, M. Packia Lincy and V. R. Mohan. 2016. Oral glucose tolerance test (OGTT) in normal control and glucose induced hyperglycemic rats with *Hedyotis leschenaultiana* DC. 2016. *International Journal of Toxicological and Pharmacological Research*. 8: 59-62.
13. **Sornalakshmi. V.**, P. S. Tresina, K. Paulpriya, M. Packia Lincy and V. R. Mohan. 2016. Elucidation of analgesic and antipyretic activities of *Daphniphyllum neilgherrense* (Wt.) Rosenth Aerial Part in Wistar Rats. *International Journal of Current Pharmaceutical Review and Research*. (Impact Factor: 2.11). 7:117-120.
14. **Sornalakshmi. V.**, P. S. Tresina, K. Paulpriya, M. Packia Lincy and V. R. Mohan. 2016. Evaluation of immunomodulatory activity of ethanol extract of *Asystasia travancorica* Bedd (Acanthaceae). *International Journal of Recent Scientific Research*. 7:9624-9627. (**Impact Factor: 6.86**) (UGC Approved).
15. **Sornalakshmi V.**, Tresina Soris P., Paulpriya K., Doss A and Mohan V.R. Antihyperglycemic, antihyperlipidemic and antioxidant effect of *Hedyotis leschenaultiana* DC on alloxan induced diabetic rats. *International Journal of Research in Ayurveda and Pharmacy*. 7: 92-97.
16. **Sornalakshmi. V.**, P. S. Tresina, K. Paulpriya, M. Arumugasamy, K and V. R. Mohan. 2016. Analgesic and antipyretic activities of *Neolitsea scrobiculata* (Meisner) Gamble (Lauraceae). *International Journal of Pharmacy and Technology* Vol. 8. 15679-15686.
17. P. S. Tresina, **Sornalakshmi. V.**, K. Paulpriya, M. Packia Lincy and V. R. Mohan. 2016. Antiinflammatory activity of *Hedyotis leschenaultiana* DC (Rubiaceae) in acute inflammation. *International Journal of Pharmacy and Technology*. 8: 13465-13470. (**Indexed in: Scopus**)
18. P.S.Tresina, K. Paulpriya, **Sornalakshmi V.** and V. R. Mohan. 2016. Evaluation of *in vivo* antiinflammatory activity of ethanol extract of *Aristolochia bracteata* Retz whole plant in rats. *International Journal of Recent Advances in Multidisciplinary Research*. 3: 1487-1489. (**Impact Factor 3.95**)
19. Paulpriya K, Tresina P S, **Sornalakshmi V**, Mohan V R. 2016. Screening of Phytoconstituents, FT-IR Analysis and In vitro Antioxidant Potential of an Endemic Plant

- Crotalaria longipes* Wight & Arn. International Journal of Pharmacognosy and Phytochemical Research. 8(8); 1363-1371. **(Impact Factor: 1.846) (UGC Approved).**
20. P.S.Tresina, V. Sornalakshmi, K. Paulpriya and V. R. Mohan. 2016. Hepatoprotective effect of *Hedyotis leschenaultiana* DC, ethanol extract in CCl<sub>4</sub> induced hepatotoxicity in wistar rats. *Asian Journal of Pharmaceutical and Clinical Research*. 9: 164-167. **(Impact Factor: 0.40) (Indexed in: Scopus and Elsevier) (UGC Approved).**
  21. Sornalakshmi. V., P.S.Tresina, K. Paulpriya and V. R. Mohan. 2017. Studies on phytochemical, FTIR analysis and *in vitro* antioxidant activity of marine seaweed *Hypnea musciformis* (Wulfen) Lamouroux. *Seaweed Research Utilization*.39(1) **(Accepted) (UGC Approved).**
  22. Sornalakshmi. V., P.S.Tresina, K. Paulpriya and V. R. Mohan. 2017. Evaluation of free radical scavenging activity of leaf of *Hypericum mysorens* Heyne. *International Journal of Phytomedicine*. **(Indexed in: Elsevier) (Accepted).**
  23. Sornalakshmi V., Tresina PS., Paulpriya K and Mohan VR. FTIR analysis and antioxidant activity of marine seaweed *Acanthophora spicifera*. *Seaweed Research and Utilization*. **(UGC Approved) (Communicated)**
  24. Tresina, P.S., Paulpriya, K., Sornalakshmi, V. and Mohan, V. R. 2018. Antioxidant Activity of *Saraca asoca* (Roxb.) Wilde Flower: An *In Vitro* Evaluation. *International Journal of Pharmacognosy and Phytochemical Research*. **(Impact Factor: 1.846). (Indexed in: Scopus & UGC approved) (Communicated)**
  25. Tresina, P.S., Paulpriya, K., Sornalakshmi, V. and Mohan, V. R. 2018. Assessment of In Vitro Antioxidant Potential of Whole Plant of *Naregamia alata* W. & A. *Saudi Journal of Life Sciences*. **(UGC Approved) (Communicated)**

#### **Book chapters published & accepted**

1. V. Sornalakshmi, K. Michael Evanjaline, P.S. Tresina and V.R. Mohan. 2017. Assesment of pigments, phytochemicals and antibacterial activity of seaweeds from Tuticorin Coast, Gulf of Mannar Biosphere Reserve. *Recent Trends in Aquaculture Development*. (976-33-5067- 5336-1 *In Press*)



2. **V. Sornalakshmi**, P.S.Tresina, K. Paulpriya and V.R. Mohan. 2017. Pharmacognostic, Physicochemical Standardization and Phytochemical analysis of Stem Bark of *Ailanthus excelsa* Roxb. *Ethnomedicinal Plants: A Biodiversity Treasure*. Astral Publications, New Delhi.
3. **V. Sornalakshmi**, P.S.Tresina, K. Paulpriya and V.R. Mohan. 2017. Evaluation of *in vivo* anticancer activity of ethanol extract of *Hedyotis leschenaultiana* DC against Dalton's Ascites Lymphoma induced swiss albino mice. *Ethnomedicinal Plants with Therapeutic Properties*. Apple Academic Press, Canada.
4. **V. Sornalakshmi**, P.S.Tresina, K. Paulpriya and V.R. Mohan. 2017. Evaluation of antidiabetic activity of *Hypericum mysorens* Heyne. *Ethnomedicinal Plants with Therapeutic Properties*. Apple Academic Press, Canada.
5. P.S.Tresina, K. Paulpriya, **V. Sornalakshmi** and V.R.Mohan. 2017. Studies on the indigenous wild edible plants of Palliyar tribes of South India. *Ethnomedicinal Plants: A Biodiversity Treasure*. Astral Publications, New Delhi.
6. K. Paulpriya, P.S. Tresina, **V. Sornalakshmi**, V.R. Mohan. 2017. Traditional Knowledge of *Irulas* Tribes in Krishnagiri District, Tamil Nadu, India. *Ethnomedicinal Plants: A Biodiversity Treasure*. Astral Publications, New Delhi.
7. P.S.Tresina, **V. Sornalakshmi**, K. Paulpriya and V.R. Mohan. 2017. An exploration on the indigenous ethnomedicinal plants of Saduragiri hills, Western Ghats, Tamil Nadu, India. *Ethnomedicinal Plants: A Biodiversity Treasure*. Astral Publications, New Delhi.
8. P.S.Tresina, K. Paulpriya, **V. Sornalakshmi** and V.R.Mohan. 2017. Ethnomedicinal plants used for skin diseases by Kanikkars of Kanyakumari district of Western Ghats, Tamil Nadu, India. *Ethnomedicinal Plants: A Biodiversity Treasure*. Astral Publications, New Delhi.
9. P.S.Tresina, **V. Sornalakshmi**, K. Paulpriya, K. Arumugasamy and V.R. Mohan. 2017. Antifertility activity of *Aristolochia krisagathra* Sivarajan and Pradeep and *Aristolochia bracteata* Retz.: an *in vivo* evaluation. *Ethnomedicinal Plants with Therapeutic Properties*. Apple Academic Press, Canada.

10. P.S.Tresina, K. Paulpriya, **V. Sornalakshmi** and V.R.Mohan. 2017. Assessment of anticancer and immunomodulatory activity of *Asystasia travancoria* Bedd. (Acanthaceae). ***Ethnomedicinal Plants with Therapeutic Properties***. Apple Academic Press, Canada.
11. P.S.Tresina, **V. Sornalakshmi**, K. Paulpriya and V.R. Mohan. 2017. Hepatoprotective activity of *Eugenia floccosa* Bedd. and *Eugenia singampattiana* Bedd. against CCl<sub>4</sub> - induced liver injury in rats. ***Ethnomedicinal Plants with Therapeutic Properties***. Apple Academic Press, Canada.
12. K. Paulpriya, P.S. Tresina, **V. Sornalakshmi**, V.R. Mohan. 2017. Antifertility activity of ethanol extract of *Asystasia travancorica* Bedd. (Acanthaceae) and *Sonerila tinneveli* Fischer (Melastomataceae). ***Ethnomedicinal Plants with Therapeutic Properties***. Apple Academic Press, Canada.