

## CURRICULUM VITAE



Name : **ARUMUGAM RADJASSEGARIN**

Date of Birth : 19.05.1979

Place of Birth : Puducherry, India

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### **Contact details:**

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**Permanent address:** #2, Kamraj street, S.P. Nagar (Chattiram), Puducherry- 605 001, India..

**Present position:** Assistant professor of Botany (self financing), A.V.C. College (Autonomous), Mannampandal - 609305, Mayladuthurai, Tamil Nadu, India. (**From 2013 Jan – till date**)

**Community:** OBC/ Gramini

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**Objective:** 'I'm looking for a career, where I can develop my skills further. I'm hardworking, strong, versatile and in good health and be an effective team member.'

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### **Qualifications Overview:**

- 2011 Ph.D in Marine Biology, Annamalai University, Tamil Nadu, India  
(Eco-biology and Transplantation of seagrasses of Gulf of Mannar, India and Evaluation of *Cymodocea serrulata* as seagrass liquid fertilizer)
- 2007 M.Phil in Marine Biology, Annamalai University, India ,7.67 OGPA (First class)  
(Studies on the effect of *Sargassum wightii* extract on *Vigna unguiculata*(L) Walp. Var.pusa-151)
- 2005 M. Sc in Botany, A.V.C. College, Bharathidasan University, India, 78.6 %  
(Distinction)  
(Effect of VAM fungi and Rhizobium on growth and nutrition of *Vigna unguiculata* (L) Walp. Var.pusa-151.
- 2000 B.Sc in Botany, Tagore Arts College, Pondicherry University, India, 51%  
(Second class)
- 1997 HSC – Tamilnadu State Board 58.25 % (Second class)
- 1995 SSLC-Tamilnadu State Board 63.6 % (First class)
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### Research Experience:

- 2009 – 2011. Worked as Junior Research Fellow in MoES – CLMRE research project  
Monitoring and Surveillance of Harmful Algal Blooms (Work includes –monitoring of algal blooms, culture and maintenance)
- 2007 – 2008 Worked as Junior Research Fellow in the UNDP-GEF-GOMBRT  
funded project “Studies on seagrass productivity and mapping  
in the Gulf of Mannar Biosphere Reserve”

### Research Achievements

- Received certificate for contribution in outstanding Reviewing in South African Journal of Botany – Elsevier.
- Google scholar citation – above 800
- h-index - 16

### Teaching Experience:

- Jan 2013- Dec 2014 Guest Lecturer in Botany, AVC College, Mannampandal, Mayuladuthurai - 609305, Tamil Nadu,India.
- Aug 2015- Till date Guest Lecturer in Botany, AVC College, Mannampandal, Mayuladuthurai - 609305, Tamil Nadu,India.
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### Research Interest:

- Plant growth regulation
  - Seaweed – assessment, culture, liquid fertilizer, composting, phytochemistry
  - Seagrasses - assessment, environmental relationship, transplantation, phytochemistry
  - Microalgae – culture, phytochemistry
  - Mycorrhizal associations
  - Mangrove - nursery raising and plantation
  - Phytochemistry and Bioactivity of herbal plants
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**Computer skills:** Proficiency in MS Windows Office 2007, SPSS, PAST

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### Seminar, Conference, Training Workshop and Exposures:

- Participated in **FORV Sagar Sampada Curise # 260 & 271** and covered 2793 and 2544 nautical miles respectively in Southeast coast of India.
- Workshop on **Taxonomy of marine algae**- Krishnamurthy Inst. Algology & CSMCRI Mandapam 2010,
- Workshop on **seaweed culture** – CAS in Marine Biology and Seaweed research Utilization Association 2007& 2008
- Workshop on **GIS and Marine Biodiversity**, Loyola College, Loyola College chennai, 26<sup>th</sup>-29<sup>th</sup> Feb.2008.
- Training program on **Seaweed Farming and Processing for Food**, Thassim Beevi Abdul kader College for Women, Kilakarai Ramnad District, 3-5 Aug.2006.

- Training workshop on **Marine and coastal Biodiversity Assessment for Conservation and Sustainable utilization**, SDMRI, SDMRI Tuticorin, 20-24 Mar.2006.
- Participated in National Training Programme on “**Biodiversity of Marine Flora**” on 19<sup>th</sup> & 20<sup>st</sup> March 2014, Organised by Center for Advanced Studies in Marine Biology, Faculty of Marine Sciences, Annamalai University, Parangipettai, Tamil Nadu.
- Participated in MHRD Sponsored National Training Programme on “**Marine Bioresource utilization**” on 17<sup>th</sup> February 2016, Organised by Center for Advanced Studies in Marine Biology, Faculty of Marine Sciences, Annamalai University, Parangipettai, Tamil Nadu.
- Participated in MHRD Sponsored National Training Programme on “**Biodiesel from Marine Algae**” on 18<sup>th</sup> February 2016, Organised by Center for Advanced Studies in Marine Biology, Faculty of Marine Sciences, Annamalai University, Parangipettai, Tamil Nadu.
- Participated in MHRD Sponsored National Training Programme on “**Bioinstrumentation**” on 25<sup>th</sup> February 2016, Organised by Center for Advanced Studies in Marine Biology, Faculty of Marine Sciences, Annamalai University, Parangipettai, Tamil Nadu.
- Participated in TEQIP II Sponsored Two days seminar on “**Network Pharmacology – A new horizon in drug design**” on 30<sup>th</sup> & 31<sup>st</sup> August 2016, Organised by Department of Biotechnology, Bharathidasan Institute of Technology (BIT) Campus, Anna University, Tiruchirappalli, Tamil Nadu.
- Participated in Science Academies Education Programmes Lecture workshop in Botany on “**Perspectives in Biological Research**”, Sponsored by Indian Academy of Science Bangalore, Indian National Science Academy New Delhi and The National Academy of Sciences India, Allahabad; Organised by Department of Botany, A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai, Tamilnadu on 23<sup>rd</sup> & 24<sup>th</sup> January 2017.
- Participated in Science Academies Lecture workshop on “**Chemistry – Current Focus**”, Sponsored by Indian Academy of Science Bangalore, Indian National Science Academy New Delhi and The National Academy of Sciences India, Allahabad; Organised by Department of Chemistry, A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai, Tamilnadu on 27&28<sup>th</sup> February, 2017.
- Participated and presented a paper entitled “Antifungal activity of purified phenolic fractions of *Halodule pinifolia* with potential to control plant pathogens” – in

**National Symposium on algal diversity and resource status: current trends in utilization and prospects for innovation;** Organised by V.O.C. college, Tuticorin on 21<sup>st</sup> – 23<sup>rd</sup> September 2017.

- Participated and presented a paper entitled “Enhanced growth responses of Sargassum wightii extract on pulses” – in **National Symposium on algal diversity and resource status: current trends in utilization and prospects for innovation;** Organised by V.O.C. college, Thoothukudi on 21<sup>st</sup> – 23<sup>rd</sup> September 2017.
- Attended one day workshop on “**Spirulina production technology**” – Organised by Kamaraj college, Thoothukudi on 26<sup>th</sup> September 2018.
- Participated IASC, INSa and NASI sponsored Science Academis Refresher course on “Plant taxonomy, Biodiversity and Ethanobotany” at V.O.C. Chidambaram College, Thoothukudi.
- Participated one day National Workshop on “ Biodiversity and restoration of Mangroves” Sponsered by DST-PURSE, Organised by CAS in Marine Biology, Annamalai university Parangipettai.
- Participated one day National Workshop on “ Recent development in Mangrove Environment and challenges on its Sustainability” Sponsered by UGC-SAP Programme, Organised by CAS in Marine Biology, Annamalai university Parangipettai.
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### **Publications:**

1. **Arumugam, R.,** B.Kirkan, C.Sarikurkcü, 2018. Phenolic profile, antioxidant and enzyme inhibitory potential of methanolic extracts from different parts of *Astragalus ponticus* Pall. *South African Journal of Botany* [doi.org/10.1016/j.sajb.2018.07.002](https://doi.org/10.1016/j.sajb.2018.07.002) (Article in press). (**Impact factor: 1.432**)
2. **Arumugam, R.,** E. Jeniva, J. Gayathri, B. Elanchezhian, T.M. Sathees Kannan, P. Anantharaman, 2018. Antifungal activity of purified phenolic fractions of *Halodule pinifolia* with potential to control plant pathogens. *Seaweed Res. Util.*, 39(2):56-59.
3. Jayakumar S., N. Baskaran, **R. Arumugam,** S. Sathiskumar, M. Pugazhenti, 2018. Herbal medicine as a live practice for treating livestock ailments by indigenous people: A case study from the Konar community of Tamil Nadu. *South African Journal of Botany* 118 (2018) 23–32. (**Impact factor: 1.432**)
4. Samidurai Jayakumar, Selvarasu Sathiskumar, Nagarajan Baskaran, **Radjasegarin Arumugam,** Varadhrajan Vanitha, 2017. Ethno-veterinary practices in Southern India

for captive Asian elephant ailments. *Journal of Ethnopharmacology* 200 (2017) 182–204. <http://dx.doi.org/10.1016/j.jep.2017.02.039> (**Impact factor: 3.033**).

5. Arockiya Aarthi Rajathi, F., **R. Arumugam**, S. Saravanan, P. Anantharaman, 2016. Biosynthesis of gold nano particles using the biomass of brown seaweed, *Sargassum tenerrimum* for biomedical application. *Seaweed Res. Utiln.*, 38(1): 61-65.
6. Rajasekaran. S, T.M. Satheskannan, **R. Arumugam**, K. Jayakumar, J. Silvia Nithiya Kumari, 2016. Ethnobotanical studies on Cauvery delta region of kumbakonam, Thanjavur district of Tamil Nadu. *International Journal of current research and development*. Vol 4(2) :17-22, ISSN;2321;0516.
7. Arockiya Aarthi Rajathi, F., **R. Arumugam**, S. Saravanan, P. Anantharaman, 2014. Phytofabrication of gold nanoparticles assisted by leaves of *Suaeda monoica* and its free radical scavenging property. *Journal of Photochemistry and Photobiology B: 5*;135:75-80. <http://dx.doi.org/10.1016/j.jphotobiol.2014.03.016>. (**impact factor: 3.136**)
8. Ragupathi Raja Kannan, R., **Arumugam, R.**, P. Anantharaman. 2013. Seagrasses as potential source of medicinal food ingredients: Nutritional analysis and multivariate approach. *Biomedicine & Preventive Nutrition* 3(4): 375-380.
9. Ragupathi Raja Kannan, R., **Arumugam, R.**, P. Anantharaman. 2013. Pharmaceutical potential of a fucoidan-like sulphated polysaccharide isolated from *Halodule pinifolia*. *International Journal of Biological Macromolecules* 62:30-4. doi: 10.1016/j.ijbiomac.2013.08.005.. (**Impact Factor: 3.909**).
10. **Arumugam, R.**, Ragupathi Raja Kannan, K.R.Saravanan., T. Thangaradjou., P. Anantharaman. Hydrographics and sediment characteristics of Seagrasses ecosystem of Gulf of Mannar, South India. 2013. *Environmental Monitoring and Assessment*. 185 (10):8411-27. DOI: 10.1007/s10661-013-3183-63. (**Impact Factor: 1.804**).
11. Ragupathi Raja Kannan, R., **Arumugam, R.**, T. Thangaradjou., P. Anantharaman. Phytochemical, Phytochemical constituents, antioxidant properties and p-coumaric acid analysis in some seagrasses. *Food Research International* doi.org/10.1016/j.foodres.2013.01.027. (**Impact Factor: 3.53**).
12. Ragupathi Raja Kannan, R., **Arumugam, R.**, T. Thangaradjou., P. Anantharaman, 2013. In vitro antibacterial, cytotoxicity and haemolytic activities and phytochemical analysis of seagrasses. *Food Chemistry* 136: 1484–1489. (**Impact Factor: 4.946**).
13. **R. Arumugam**, R. Ragupathi Raja Kannan, J. Jayalakshmi, K. Manivannan, G. Karthikai Devi and P. Anantharaman. 2012. Determination of element contents in herbal drugs: Chemometric approach. *Food Chemistry* 135: 2372–2377. (**Impact Factor: 4.946**).
14. Ragupathi Raja Kannan, R., **Arumugam, R.**, P. Anantharaman. 2012. Chemical composition and antibacterial activity of Indian Seagrasses against Urinary Tract Pathogens. *Food Chemistry*. 135: 2470–2473 (**Impact Factor: 4.946**).

15. R. Ragupathi Raja Kannan, **R. Arumugam**, P Ramya, K.Manivannan, and P. Anantharaman,2013.Green synthesis of silver nanoparticles using marine macroalga*Chaetomorpha linum*, *Applied Nanoscience*, DOI 10.1007/s13204-012-0125-5. (**Impact Factor: 2.951**).
16. R. Ragupathi Raja Kannan, **R. Arumugam**, M. Grignon-Dubois and P. Anantharaman. 2012. Antioxidant activity of seagrasses of the Mandapam coast, India. *Pharmaceutical Biology* 50(2): 182–187. (**Impact Factor: 1.918**).
17. R. Ragupathi Raja Kannan,**R. Arumugam** and P. Anantharaman. 2011. Fourier Transform Infrared analysis of Seagrass Polyphenols. *Current Bioactive Compounds* 7 (2): 118-125.
18. R. Ragupathi Raja Kannan, **R. Arumugam** and P. Anantharaman. 2011. Chemometric studies of multielemental composition in Seagrasses of Gulf of Mannar, India. *Biological Trace Element Research*. 143:1149–1158.(**Impact Factor:2.361**).
19. **R. Arumugam**, S. Rajasekaran and S.M. Nagarajan. 2010. Response of Arbuscular mycorrhizal fungi and *Rhizobium* inoculation on growth and chlorophyll content of *Vigna unguiculata*(L) Walp Var. Pusa 151. *Journal of Applied Science and Environmental Management*, 14 (4) 113 – 115.
20. R. Ragupathi Raja Kannan, **R. Arumugam**, A. Hemalatha and P. Anantharaman. 2010. Phytochemical analysis of seagrasses from Mandapam coast, Tamilnadu. *Seaweed Research & Utilization*, 32 (1&2): 171-175.
21. **R. Arumugam**, R. Ragupathi Raja Kannan, N. Arivuselvan and P. Anantharaman. 2010. Antimicrobial potential of some seagrasses against phytopathogens. *Seaweed Research & Utilization*, 32 (1&2): 177-183.
22. R. Ragupathi Raja Kannan, **R. Arumugam** and P. Anantharaman. 2010. Antibacterial potential of three Seagrasses against Human pathogens. *Asian Pacific Journal of Tropical Medicine*, 11: 890-893.(**Impact Factor: 0.926**)
23. R. Ragupathi Raja Kannan, **R. Arumugam** and P. Anantharaman. 2010. In-vitro antioxidant activities of *Enhalusacoroides*. *Asian Pacific Journal of Tropical Medicine*. 11: 898-901.(**Impact Factor: 0.926**)
24. R. Ragupathi Raja Kannan, **R. Arumugam**, S. Meenakshi and P. Anantharaman. 2010. Thin layer chromatography analysis of Antioxidant constituents of seagrasses of Gulf of Mannar. *International Journal ChemTech Research*. 2(3): 1526-1530.
25. P. Anantharaman, G. Thirumaran, **R. Arumugam**, R. Ragupathi Raja Kannan, A. Hemalatha, A. Kannathasan, P. Sampathkumar and T. Balasubramanian, 2010. Monitoring of *Noctiluca* bloom in mandapam and keelakarai coastal waters; Southeast coast of India. *Recent Research in Science and Technology* 2010, 2(10): 51-5.
26. K. Vallinayagam, **R. Arumugam**, R. Ragupathi RajaKannan, G. Thirumaran and P. Anantharaman. 2009. Antibacterial activity of Seaweeds of Pudumadam coast. *Global Journal of Pharmacology*, 3(1): 50-52.

27. P. Anantharaman, G. Thilagavathi, **R. Arumugam**, R. Ragupathi Raja Kannan, G. Thirumaran and A. Hemalatha. 2009. Effect of seaweed *Ulvalactuca* extract on seedling growth and biochemical composition of some pulses. *Proceedings of the International Conference on Algal Biomass, Resources and Utilization*, pp. 1-5.
28. A. Mohamed AbubakerSithik, G. Thirumaran, **R. Arumugam**, R. Ragupathi Raja Kannan and P. Anantharaman. 2009. Physico-chemical Parameters of Holy Places Agnitheertham and Kothandaramar Temple; Southeast Coast of India. *American-Eurasian Journal of Scientific Research*, 4 (2): 108-116.
29. G. Thirumaran, M. Arumugam, **R. Arumugam** and P. Anantharaman. 2009. Effect of Seaweed Liquid Fertilizer on Growth and Pigment Concentration of *Cyamopsis tetragonoloba* (L) Taub. *American-Eurasian Journal of Agronomy*, 2 (2): 50-56.
30. G. Thirumaran, M. Arumugam, **R. Arumugam** and P. Anantharaman. 2009. Effect of Seaweed Liquid Fertilizer on Growth and Pigment Concentration of *Abelmoschus esculentus*(l) medikus. *American-Eurasian Journal of Agronomy* 2 (2): 57-66.
31. **R. Arumugam**, P. Anantharaman, G. Thirumaran and T. Balasubramanian. 2008. Effect of Seaweed extracts from *Sargassum wightii* on *Vigna unguiculata* (L) Walp. Var. Pusa 151. *Seaweed Res. Utiln.*, 30: 233-239.

### Book Chapters

1. K. Sankar Ganesh, M. Nagarajan, T.M. Satheesh Kannan and **R. Arumugam**, 2015. Medicinal plants used in Nagapattinam District of Tamil Nadu for the treatment of some respiratory disorders (Ed. R. Sangeetha) Published by Grabs Educational Charitable trust, Chennai 114.
2. T.M. Satheesh Kannan, M. Nagarajan, S. Rajasekaran and **R. Arumugam**, 2016. Published a practical manual for I BSc. Zoology and Microbiology.

### Guest Lectures

1. Delivered lecture on “**Gardening**” in D.G.G.A.College, Myladuthurai, Organised by Green Garden Club – department of Zoology, D.G.G.A. College.