

# CURRICULUM VITAE

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**ACADEMIC QUALIFICATIONS: M.Sc., M.Phil., Ph.D., PGDTA., B.Li.Sc.,**

Programme of Study	Name of the Institution/University	Major Subject(s)	Regular/Distance	Month and Year	Class	% of Marks
Ph.D	CAS in Marine Biology, Annamalai University, Chidambaram	Marine Biology and Oceanography ( <b>Relevant to BOTANY</b> )	Regular	March 2015	--	--
M. Phil	Saraswathi Narayanan College, Madurai Kamaraj University, Madurai	BOTANY	Regular	April 1999	First	74.25
PG (M.Sc.,)	Saraswathi Narayanan College, Madurai Kamaraj University, Madurai	BOTANY	Regular	April 1998	First	74.00 (2 <sup>nd</sup> Rank)
UG (B.Sc.,)	Saraswathi Narayanan College, Madurai Kamaraj University, Madurai	BOTANY	Regular	April 1996	First	64.43

## OTHER QUALIFICATIONS:

Programme of Study	Name of the Institution/University	Major Subject(s)	Regular / Distance	Year of Passing	Class	% of Marks
CGT	Madurai Kamaraj University, Madurai	Gandhian Thought	Distance Education	1997	First	62.50
PGDTA	Pondicherry University, Pondicherry	Tourism Administration	Distance Education	1997	First	63.80
DCA	CMTES, Madurai	Computer Applications	Regular	1998	Grade A	--
B. Li. Sc	Madurai Kamaraj University, Madurai	Library and Information Science	Distance Education	1999	First	60.38
Tally ERP 9	CSC Computers, Ramnad	Tally Accounting	Regular	2011	Grade A	--

**CURRENT POSITION:** Assistant Professor and Head, Department of Botany, Pasumpon Muthuramalinga Thevar College, Melaneelithanallur – 627 953, Sankarankoil (Taluk), Tenkasi (District), Tamil Nadu

## MANAGERIAL EXPERIENCE

Head Procurement of PepsiCo India Holdings Private Limited, Gurgaon - Seaweed Research Project, Planning and Coordinating the R & D, Commercial activities of Ramanathapuram, Pudukkottai, Tuticorin and Tanjore Districts and Executing the administrative aspects of this project from 25.04.2002 to 15.07..2008. Head Procurement and Extension of Aquagri Processing Private Limited, New Delhi – Carrageenan Project, Planning and Coordinating the R & D, Commercial activities of Ramanathapuram, Pudukkottai, Tuticorin and Tanjore Districts and Executing the administrative aspects of this project from 16.07.2008 to 31.10.2011. Vice President of Aquaculture Foundation of India, Chennai – R & D activities of the foundation and Executing the administrative aspects of various projects from 03.01 2014 to 28.08.2017.

## RESEARCH EXPERIENCE

More than Twenty Four years from June 1998 till date in various institutions Viz.,

(1) Madurai Kamaraj University, Department of Energy Science, Madurai as Field Assistant handled Energy consumption survey in Rajapalayam (Taluk), Virudhunagar (District), Tamil Nadu from 03.03.2000 to 30.11.2000.

(2) R & D at CSMCRI-Marine Algal Research Station, Mandapam Camp a unit of CSIR - CSMCRI Bhavnagar pertaining to Various aspects involving ecology and biology of some important Marine Algae – *Ulva lactuca*, *Gelidiella acerosa*, *Gracilaria edulis* and *Kappaphycus alvarezii*. Field cultivation of some important economic Marine Algae -- *Gelidiella acerosa*, *Gracilaria edulis* and *Kappaphycus alvarezii* from 06.12.2000 to 24.04.2002

(3) R & D at PepsiCo India Holdings Private Limited, Gurgaon and Aquagri Processing Private Limited, New Delhi for technology development, commercialization and expansion of *Kappaphycus alvarezii* in the coastal waters of Tamil Nadu from 25.04.2002 to 31.10.2011.

(4) R & D at CAS in Marine Biology, Annamalai University, Parangipettai for extension of Seaweed farming and value addition from seaweeds from 27.12.2011 to 26.12.2013.

(5) R & D at Aquaculture Foundation of India, Chennai for technology development and expansion of *Kappaphycus alvarezii* in the coastal waters of Andhra Pradesh and Cuddalore coast, Tamil Nadu from 03.01.2012 to 28.08.2017.

#### **TECHNOLOGY TRANFERED FOR COMMERCIALIZATION (1 No.)**

M/s. PepsiCo India Holdings Private Limited. Gurgaon and M/s. Aquagri Pvt. Ltd., New Delhi have purchased the Patented technology and commercialized the same for field cultivation of the carrageenophyte - *Kappaphycus alvarezii* as well as Biofertilizer.

#### **TECHNOLOGY DEVELOPED AND STANDARDIZED (1 No.)**

**Commercialization of *Kappaphycus alvarezii* Cultivation :** As one of the team member in *Kappaphycus alvarezii* cultivation revolutionized the coastal population of Tamil Nadu, each person earning about Rs.15200/- to 17200/- during 2016 and 21800/- to 27000/- during 2018 per month.

#### **TRAINING PROGRAMES CONDUCTED – As Coordinator/ Organizing Secretary (6 Nos.)**

Various training programs were conducted as a team member/ Head for the coastal people and officials on seaweed farming – *Kappaphycus alvarezii* cultivation (1 to 5).

(1) Through DBT fund for “Seaweed farming to rehabilitate Tsunami affected coastal communities in Tamil Nadu” 40 SHG’s of 200 members were trained in the coastal districts of Ramanathapuram, Pudukkottai and Tanjore in Tamil Nadu during 2005 - 2008.

(2) Through PepsiCo India Holding Private Limited, Guargoan and Aquagri Processing Private limited, New Delhi R&D fund for “Commercial farming of *Kappaphycus alvarezii*” more than 500 members were trained in the coastal districts of Ramanathapuram, Pudukkottai, Tuticorin and Kanniyakumari in Tamil Nadu during 2003 to 2013.

(3) Through NFDB fund for “Training and Demonstration in Seaweed Farming” 80 SHG’s of 400 members were trained in the coastal districts of Ramanthapuram, Pudukkottai, Tanjore and Cuddalore in Tamil Nadu and 100 officials (College professors, Research Scholars, Students) in India during 2015 – 2016.

(4) Through NFDB fund for “Training and Demonstration on seaweed farming” 25 SHG’s of 125 members were trained in the coastal districts of Visakhapatnam and Vijayanagaram in Andhra Pradesh during 2014 – 2015

(5) Through IFAD – PTSLP fund for “Pilot scale - seaweed cultivation” 25 members were trained in the coastal district of Cuddalore in Tamil Nadu during 2015 – 2016.

(6) Organized a “Two Days Workshop on Training in Commercial Farming of *Spirulina* and its value addition” for Professors, Research Scholars and Entrepreneurs on 16<sup>th</sup> March and 17<sup>th</sup> March 2022 sponsored by DST SERB – TARE, New Delhi.

### **RESEARCH PROJECTS UNDERTAKEN (5 Nos.). Total Funds Received – 37.5 Lakhs.**

#### **Projects Completed (5 Nos)**

- (1) **IFAD - PTSLP Project:** Cultivation Feasibility Study in six coastal districts of Tamil Nadu (Thiruvallur, Kancheepuram, Villupuram, Cuddalore, Nagapattinam and Kanniingyakumari) during January 2014 to June 2014 funded by International Fund for Agricultural Développement – Post Tsunami Sustainable Livelihood Programm (IFAD - PTSLP), Chennai (Sanction order number Roc.No.1053/A3/PTSLP/2012 dated 20.12.2014 Sanctioned Amount. Rs.3.5 lakhs) **as Principal Investigator**
- (2) **NFDB Project:** Training and Demonstration on seaweed farming” for 25 members in the coastal district of Andhra Pradesh (Vishakapattinam – Timmapuram) during March 2015 - May 2015 funded by National Fisheries Development Board (NFDB), Hyderabad to Aquaculture Foundation of India, Chennai. (Sanction order no. Sanction order: NFDB/ZONE II/AP/SWC/12-08/ 1 /2014 - 15 dated 04.03.2015. Sanctioned Amount: Rs. 1.87 Lakhs) as **Principal Investigator.**
- (3) **NFDB Project:** ‘Training and Démonstration on Seaweed farming’ to 100 fisher folks from Visakhapatnam (Timmapuram and Mangamaripeta) and Vizianagaram (Mukkam, YM Palem and Neelagaddapeta) districts during the period from January 2015 to April 2015 funded by National Fisheries Development Board (NFDB), Hyderabad to Aquaculture Foundation of India, Chennai (NFDB /ZONE II/AP/SWC/12-08/2/2014 - 15 dated 04.03.2015 for Rs.7.48 Lakhs) as **Principal Investigator.**

- (4) **IFAD Project:** Pilot scale - seaweed cultivation” for 25 members in the coastal district of Tamil Nadu (Cuddalore – Rettiyarpettai Village) during July 2015 to June 2016 funded by International Fund for Agricultural Development – Post Tsunami Sustainable Livelihood Programme (IFAD -PTSLP), Chennai to Aquaculture Foundation of India, Chennai (Sanction order: 1053/ A3/ PTSLP/ 2012 dated 01/12/2014. Sanctioned Amount: Rs. 6.35 Lakhs) as **Principal Investigator.**
- (5) **DST – SERB, New Delhi:** “Development of Aquafeed supplementing with *Spirulina* and Seaweed” during 9<sup>th</sup> November 2018 to 8<sup>th</sup> May 2022 funded by Department of Science and Technology (DST) – Science and Engineering Research Board (SERB), New Delhi to Pasumpon Muthuramalinga Thevar College, Melaneelithanallur, Tamil Nadu and Central Marine Fisheries Research Institute, Cochin (Sanction order TAR/ 2018/001212 dated 12.03.2019. Sanction Amount: Rs. 18.30 Lakhs) as **Principal Investigator.**

#### **RESEARCH PROJECTS APPLIED (1 No)**

- (1) Joint Proposal 2020 submitted for “Application of fucoxanthin, a brown seaweed carotenoid for added value food products and their health benefits” funded by India Portugal Programme of Cooperation in Science and Technology, DST, New Delhi in 2020. Total Budget is Rs. 85,52,500/- as **Principal Investigator from India.**

#### **MEMBERSHIP OF THE SCIENTIFIC SOCIETIES**

- (a) **As life member** of (1) Seaweed Research and Utilization Association, Chennai &  
(2) Aquaculture Foundation of India, Chennai
- (b) **As Evaluator** for projects funded by MoEF, IFAD and NFDB.
- (c) **As referee (reviewer)** for evaluation of research articles of (1) Journal of Applied Phycology (2) Journal of Applied Aquaculture (3) African Journal of Applied Biotechnology  
(4) Indian Journal of Marine Sciences and (5) Seaweed Research and Utilization

#### **Ph.D., GUIDE / DOCTORAL COMMITTEE MEMBER**

- (a) **As Recognized Ph.D guide** for Botany of Manonmaniam Sundaranar University, Tirunelveli - - Currently one student registered and pursuing Ph.D degree.
- (b) **As Ph.D., Doctoral committee member** for students pursuing Ph.D. Programme at Annamalai University, Chidambaram; Manonmaniam Sundaranar University, Tirunelveli and Mahatma Gandhi Dental University, Pondicherry.

## CURRENT R & D ACTIVITIES

Development of Seaweed based Biostimulants, Biofertilizers and Compost for conventional Agricultural Crops (Paddy, Wheat, Sorghum, Black gram, Green gram etc) to encourage and adapt Organic Farming, besides development of Prawn & Fish feed, Chicken Feed and Animal Fodder using Seaweeds. Efficacy evaluation of Seaweed Secondary Metabolites against various diseases is also going on.

## AWARDS RECEIVED (1 No.)

- (i) PEARL Foundation Educational Excellence Awards to Higher Education in India 2017 “**Best Researcher and Innovation Award 2017 in the field of Botany**” – Honored by PEARL Foundation, Madurai

## PUBLICATIONS AND OTHER ACTIVITIES

(a) Research Papers	:	29
(b) Books/ Monographs	:	05
(c) Patents Granted	:	02
(d) Technical Reports	:	04
(e) Special/Plenary/ Invited lectures	:	24
(f) Conference/ Seminar/Symposia Papers Presented	:	34
(g) Conference/ Seminar/Symposia/ Training Attended	:	19
(h) Skill training programs attended	:	08
(i) Act as Chair/ Co Chair/ Judge	:	04

## (a) RESEARCH PAPERS (29 Nos.)

1. Eswaran K, Ganesan M, **Periasamy C**, Subba Rao PV (2002) Effect of Ultraviolet-B radiation on biochemical composition of three *Ulva* species (Chlorophyta) from southeast coast of India. *Indian Journal of Marine Sciences* 31: 334-336.
2. **Periyasamy C**, Sakthivel M, Sundararaj V, Selvavinayagam KT (2011) Commercial scale cultivation of seaweed a livelihood option for coastal community. In: Proceeding of National seminar on “Promotion of fisheries and alternative livelihood in fisheries sector” held at Fisheries College and Research Institute, Tuticorin during 10<sup>th</sup> and 11<sup>th</sup> November 2011 (Eds.,) Venkataramani VK, Jeyaraman R, Nagoor Meeran M, Sundaramoorthy B, Jayakumar N. pp 97 - 100.
3. **Periyasamy C**, Anantharaman P, Balasubramanian T (2013) Sustainable utilization of biological resources – Seaweed farming a good option. *Int J Appl Bio res* 18: 17 – 22.

4. **Periyasamy C**, Anantharaman P, Balasubramanian T (2014) Social upliftment of coastal fisher women through seaweed (*Kappaphycus alvarezii* (Doty) Doty) farming in Tamil Nadu, India. *J Appl Phycol* 26: 775 - 781.
5. **Periyasamy C**, Anantharaman P, Balasubramanian T, Subba Rao PV (2014) Seasonal variation in Growth and Carrageenan yield in cultivated *Kappaphycus alvarezii* (Doty) Doty on the coastal waters of Ramanathapuram district, Tamilnadu. *J. Appl. Phycol.*, 26: 803 - 810.
6. **Periyasamy C** (2015) *Kappaphycus* farming in India – Present scenario. In: National workshop on “Fisheries Resource Management” held at IFAD - Post Tsunami Sustainable Livelihood Programme (IFAD – PTSLP), Guindy, Chennai, Tamil Nadu during 28<sup>th</sup> and 29<sup>th</sup> September 2015 (Eds.) Officials of Post Tsunami Sustainable Livelihood Programme. pp 130 – 137.
7. **Periyasamy C**, Anantharaman P, Subba Rao PV (2015) Experimental Farming of *Kappaphycus alvarezii* (Doty) Doty with income estimates at different sites in Mandapam Region, Palk Bay, Southeast Coast of India. *J. Appl. Phycol.* 27: 935–944.
8. **Periyasamy C** (2016) Need for commercial cultivation of *Kappaphycus alvarezii* and its culture techniques. In: Proc. of International conference on Advances in Algal Biotechnology held at VIT University, Vellore, Tamil Nadu during 10<sup>th</sup> to 12<sup>th</sup> August 2016 (Eds.) Ramalingam C, Kaliaperumal N, Rajasekaran C, Kalaivani T and Pragasam V. pp S 26: 1 - 10.
9. Anantharaman P, **Periyasamy C** (2016) Seaweeds and their uses. In: Proc. of National seminar on “Marine Resources” held at Department of Zoology, MDT Hindu College, Tirunelveli during 3<sup>rd</sup> and 4<sup>th</sup> March 2016. (Eds.) Saravanan V, Ilango Subramanian S, pp 21 - 30. ISBN: 978-81-931973-9-4.
10. Subba Rao PV, **Periyasamy C** (2016) Seaweed Diversity, Resources and their Augmentation. In Proc. of National Seminar on Marine Resources held at The M.D.T. Hindu College, Thirunelveli during 3<sup>rd</sup> - 4<sup>th</sup> March 2016 (Eds.) Saravanan V, Ilango Subramanian S, pp: 31 – 34.
11. **Periyasamy C**, Anantharaman P, Subba Rao PV (2016) Seaweed Farming: Current status. In Proc. of National Seminar on Marine Resources held at The M.D.T. Hindu college, Thirunelveli during 3<sup>rd</sup> - 4<sup>th</sup> March 2016 (Eds.) Saravanan V, Ilango Subramanian S., pp: 41 – 46. .



12. **Periyasamy C**, Subba Rao PV, Anantharaman P (2016a) Spatial and temporal variation in carrageenan yield and gel strength of cultivated *Kappaphycus alvarezii* (Doty) Doty in relation to environmental parameters in Palk Bay waters, Tamil Nadu, Southeast coast of India. *J. Appl. Phycol.* 28: 525 – 532.
13. Subba Rao PV, **Periyasamy C**, Rama Rao K, Srinivasa Rao A (2016) Seaweeds for Human Welfare. *Seaweed Research and Utilization*, 38(1): 1-12.
14. **Periyasamy C**, Subba Rao PV, Anantharaman P (2016b). *Kappaphycus* cultivation – A boon for the livelihood of coastal fisherfolk in India. *Seaweed Research and Utilization*, 38(1): 75 - 82.
15. **Periyasamy C**, Subba Rao PV, Selvavinayagam KT, Srinivasa Rao A (2016) Pilot scale field cultivation of *Kappaphycus alvarezii* (Doty) Doty at two different locations of Bay of Bengal waters of Andhra Pradesh, East coast of India. *Seaweed Research and Utilization*, 38(1):83 - 93.
16. **Periyasamy C**, Subba Rao PV, Anantharaman P (2016c) Protocols for successful commercial farming of *Kappaphycus alvarezii*, a potential carrageenophyte in Indian waters. *Seaweed Research and Utilization*, 38 (2): 89 – 97.
17. **Periyasamy C**, Subba Rao PV (2017) Growth rate and carrageenan yield of cultivated *Kappaphycus alvarezii* (Doty) Doty in the coastal waters of Bay of Bengal at Chepala Timmapuram, Andhra Pradesh, East coast of India. *J Appl Phycol.* 29 (4):1977 – 1987.
18. **Periyasamy C**, Sakthivel M, Subba Rao PV (2017) Seaweed cultivation – A lucrative option for coastal fisherwomen. In: Proc. of National seminar on Seaweeds – A source of Nutraceutical health care products and New Materials (Eds.) Suseela M, Asha KK, Tejpal CS, Lekshmi R, Kuamr G, Menon ARS,. pp.18- 36.
19. **Periyasamy C**, Subba Rao PV, Selvavinayagam KT, Anantharaman P (2017) Feasibility of Seaweed cultivation at new locations in the coastal waters of Tamil Nadu. *Seaweed Research and Utilization*, 39 (1): 28-38. \
20. **Periyasamy C**, Kaliaperumal (2018) Red seaweed cultivation – A lucrative livelihood for Indian Fisherfolk. *Aquaculture Spectrum*. 11: 12 – 22.
21. Subba Rao PV, **Periyasamy C**, Suresh Kumar K, Srinivasa Rao A, Anantharaman P (2018) Seaweeds: Distribution, Production and Uses. In *Bioprospecting of Algae*-Prof .J .P. Sinha



Memorial volume (Eds) Noor MN, Bhatnagar SK, ShaShi Kr Sinha, Published by Society for Plant Research ,India. . Pp 59-78.

22. **Periyasamy C**, Kaliaperumal N (2019). Red Seaweed Cultivation - A lucrative Livelihood for Indian Fisherfolk. *Aquaculture Spectrum* 7: 12 - 22.
23. **Periyasamy C**, Subba Rao PV, Anantharaman P (2019a) .Harvest optimization to assess sustainable growth and carrageenan yield of cultivated *Kappaphycus alvarezii* (Doty) Doty in Indian waters. *J Appl Phycol* . 31: 587-597.
24. **Periyasamy C**, Subba Rao PV, Anantharaman P (2019b) Spatial and temporal variation of biochemical contents in relation to carrageenan yield of cultivated *Kappaphycus alvarezii* (Doty) Doty at different locations of Palk Bay waters, Tamil Nadu, Southeast coast of India *J Appl Phycol*. 31:1355-1368.
25. **Periyasamy C** (2019) Biodiversity, Production and Utilization of Marine Plants (Seaweeds). In. Proceedings of the National Seminar on Sustainable Development through Biodiversity Conservation Organized by Research Development Committee and IQAC, St. Thomas College, Ranni, Kerala. pp: 63 - 64.
26. Subba Rao PV, **Periyasamy C** (2019) *Kappaphycus farming* for Socio-economic Development of Coastal People in India. In Hand Book of Algal Technologies and Phytochemicals, Volume II: Phycoremediation, Biofuels and Global Biomass Production (Eds. Ravisankar,G.A and Ranga Rao. A), Publishers CRC Press, Tayllor and Francis Group, Boca Raton, London, New York, pp 145-153.
27. Subba Rao PV, **Periyasamy C** (2020) Biodiversity, Conservation and Medicinal Uses of Seaweeds: The Glimpses. In: Medicinal Plants: Biodiversity, Sustainable Utilization and Conservation (Eds) Shaik Mahammad Khasim, Chunlin Long, Kanchit Thammasiri, Henrik Lutken.. Publishers Springer Nature, pp- 21-32.
28. **Periyasamy C.**, Subba Rao P.V., (2021) Biodiversity, Resources and Exploitation of Seaweeds: Current Scenario. In: Biodiversity Conservation and Sustainable Development. Dharmar K., Mary Sujin R (Eds.), Published by Research Department of Botany, Pasumpon Thiru Muthuramalinga Thevar Memorial College, Kamuthi, Ramanathapuram, Tamil Nadu. Pp: 1 to 19.
29. Mangaiyarkarasi R, Nadimuthu N P., **Periyasamy C.**, (2021) Toxicity valuation studies in Mice using a Seaweed *Gracilaria corticata* (J. Agardh) J. Agardh. In: Biodiversity

Conservation and Sustainable Development. Dharmar K., Mary Sujin R (Eds.), Published by Research Department of Botany, Pasumpon Thiru Muthuramalinga Thevar Memorial College, Kamuthi, Ramanathapuram, Tamil Nadu. Pp: 315 to 322.

**(b) BOOKS / MONOGRAPHS (5 Nos.)**

1. Sundararaj V, **Periyasamy C** (2010) Kadal Pasi Valarppu - Kadalora Makkalukku Vaippu (Tamil). Navenavelanmai publication, Chennai. pp 160.
2. Sundararaj V, **Periyasamy C** (2012) Unavum Udal Nalamum (Tamil) **ISBN 978 - 93 – 80219 – 84 - 4**, Gowra publications, Chennai. pp 259.
3. Anantharaman P, **Periyasamy C**, Kathiresan K (2013) Kadal Pasi Valarppu Manual (Tamil), CAS in Marine Biology, Parangipettai. pp 60.
4. Sundararaj V, **Periyasamy C** (2016) Kadal Pasi Valarppu (Tamil), **ISBN 978 - 93 – 82689 – 73 - 7**, Seethai pathippagam, Chennai. pp 176.
5. **Periyasamy C**, Subba Rao PV, P. Anantharaman (2017) Kasu Tharum *Kappaphycus* Kadalpasi (Tamil), **ISBN 978 - 81 – 93023 – 45 – 7**, World Literature books centre and publishers, Madurai, pp: 128.

**(c) PATENTS GRANTED (02 Nos.)**

1. (a) US Patent No: US 6893479 B2 (May 17, 2005) (Granted). Patent entitled "Integrated method for production of carrageenan and liquid fertilizer from fresh seaweeds". Contributors are Karuppanan Eswaran, Pushpito Kumar Ghosh, Arup Kumar Siddhanta, Jinalal Shambhubhai Patolia, **Chellaiah Periyasamy**, Aditya Shantibhai Mehta, Kalpana Haresh Mody, Bharatkumar Kalidas Ramavat, Kamalesh Prasad, Mahesh Rameshchandra Rajyaguru, Singaram Kulandaivel, Chennur Radha Krishna Reddy, Jayant Batukrai Pandya, Akhilesh Tewari.
- (b) PCT WO 2004/016656 A1; February 26, 2004 (published in the gazette); national phase filings in progress. Patent entitled "Integrated method for production of carrageenan and liquid fertilizer from fresh seaweeds". Contributors are Karuppanan Eswaran, Pushpito Kumar Ghosh, Arup Kumar Siddhanta, Jinalal Shambhubhai Patolia, **Chellaiah Periyasamy**, Aditya Shantibhai Mehta, Kalpana Haresh Mody, Bharatkumar Kalidas Ramavat, Kamalesh Prasad, Mahesh Rameshchandra Rajyaguru, Singaram Kulandaivel, Chennur Radha Krishna Reddy, Jayant Batukrai Pandya, Akhilesh Tewari.
- (c) Indian Patent Application No. 0133/DEL/2003A, dated March 16, 2007. Patent entitled "Integrated method for production of carrageenan and liquid fertilizer from fresh seaweeds".

Contributors are Karuppanan Eswaran, Pushpito Kumar Ghosh, Arup Kumar Siddhanta, Jinalal Shambhubhai Patolia, **Chellaiah Periyasamy**, Aditya Shantibhai Mehta, Kalpana Haresh Mody, Bharatkumar Kalidas Ramavat, Kamalesh Prasad, Mahesh Rameshchandra Rajyaguru, Singaram Kulandaivel, Chennur Radha Krishna Reddy, Jayant Batukrai Pandya, Akhilesh Tewari.

- (d) European Patent Publication No. EP1534757A1 dated Jun 01, 2005. Patent entitled "Integrated method for production of carrageenan and liquid fertilizer from fresh seaweeds". Contributors are Karuppanan Eswaran, Pushpito Kumar Ghosh, Arup Kumar Siddhanta, Jinalal Shambhubhai Patolia, **Chellaiah Periyasamy**, Aditya Shantibhai Mehta, Kalpana Haresh Mody, Bharatkumar Kalidas Ramavat, Kamalesh Prasad, Mahesh Rameshchandra Rajyaguru, Singaram Kulandaivel, Chennur Radha Krishna Reddy, Jayant Batukrai Pandya, Akhilesh Tewari.
- (e) Australian Patent Publication No. AU2002337438 dated Mar 03, 2004. Patent entitled "Integrated method for production of carrageenan and liquid fertilizer from fresh seaweeds". Contributors are Karuppanan Eswaran, Pushpito Kumar Ghosh, Arup Kumar Siddhanta, Jinalal Shambhubhai Patolia, **Chellaiah Periyasamy**, Aditya Shantibhai Mehta, Kalpana Haresh Mody, Bharatkumar Kalidas Ramavat, Kamalesh Prasad, Mahesh Rameshchandra Rajyaguru, Singaram Kulandaivel, Chennur Radha Krishna Reddy, Jayant Batukrai Pandya, Akhilesh Tewari.
- (f) Chinese Patent Publication No. CN 1324052C dated 2007-7-4. Patent entitled "Integrated method for production of carrageenan and liquid fertilizer from fresh seaweeds". Contributors are Karuppanan Eswaran, Pushpito Kumar Ghosh, Arup Kumar Siddhanta, Jinalal Shambhubhai Patolia, **Chellaiah Periyasamy**, Aditya Shantibhai Mehta, Kalpana Haresh Mody, Bharatkumar Kalidas Ramavat, Kamalesh Prasad, Mahesh Rameshchandra Rajyaguru, Singaram Kulandaivel, Chennur Radha Krishna Reddy, Jayant Batukrai Pandya, Akhilesh Tewari.
- (g) European Patent No. EP 1534757 B1; 10-05-2006. Patent entitled "Integrated method for production of carrageenan and liquid fertilizer from fresh seaweeds". Contributors are Karuppanan Eswaran, Pushpito Kumar Ghosh, Arup Kumar Siddhanta, Jinalal Shambhubhai Patolia, **Chellaiah Periyasamy**, Aditya Shantibhai Mehta, Kalpana Haresh Mody, Bharatkumar Kalidas Ramavat, Kamalesh Prasad, Mahesh Rameshchandra Rajyaguru, Singaram Kulandaivel, Chennur Radha Krishna Reddy, Jayant Batukrai Pandya, Akhilesh Tewari.

(h) Denmark Patent No. DK/EP 1534757 T3; 12-06-2006. Patent entitled "Integrated method for production of carrageenan and liquid fertilizer from fresh seaweeds". Contributors are Karuppanan Eswaran, Pushpito Kumar Ghosh, Arup Kumar Siddhanta, Jinalal Shambhubhai Patolia, **Chellaiah Periyasamy**, Aditya Shantibhai Mehta, Kalpana Haresh Mody, Bharatkumar Kalidas Ramavat, Kamalesh Prasad, Mahesh Rameshchandra Rajyaguru, Singaram Kulandaivel, Chennur Radha Krishna Reddy, Jayant Batukrai Pandya, Akhilesh Tewari.

2. Patent entitled "Seaweed mixture inducing growth or development and stress tolerance in plants". Contributors are Perumal Anantharaman and **Chellaiah Periyasamy**. Indian Patent Application No. 201741014918, Reference No. E-2/1145/2017-CHE dated April 27, 2017, Patent No: 396333 Granted on 06.05.2022.

**(d) TECHNICAL REPORTS (04 Nos.)**

1. Anon 2014. A report on Cultivation Feasibility Study in six coastal districts of Tamil Nadu ( Thiruvallur, Kancheepuram, Villupuram, Cuddalore, Nagapattinam and Kanniyakumari), IFAD-PTSLLP, Chennai report, AFI, Chennai, pp35.

2. Anon 2015. A report on Training and Demonstration on seaweed farming for 25 members in the coastal district of Andhra Pradesh (Vishakapattinam – Timmapuram). NFDB, Hyderabad report, AFI, Chennai. pp32.

3. Anon 2015. A report on Training and Démonstration on seaweed farming for 100 members in Visakhapatnam (Timmapuram & Mangamaripeta) and Vizianagaram (Mukkam, YM Palem and Neelagaddapeta) districts of Andhra Pradesh. NFDB, Hyderabad report, AFI, Chennai. pp32.

4. Anon 2016. A report on Pilot scale - seaweed cultivation for 25 members in the coastal district of Tamil Nadu (Cuddalore – Reddiyarpettai Village) , IFAD-PTSLLP, Chennai report, AFI, Chennai, pp36.

**(e) SPECIAL/ PLENARY/ INVITED LECTURES DELIVERED (24 Nos.)**

1. Seaweed cultivation and Utilization in India. Delivered an invited lecture in the National Seminar on promotion of Fisheries and Alternative Livelihood in Fisheries Sector organized by Directorate of Research and Extension (Fisheries), Fisheries College & Research Institute Campus, TANUVAS, Tuticorin held on 10<sup>th</sup> and 11<sup>th</sup> November 2011.

2. Indian Seaweed Wealth and its exploitation for sustainable utilization. Delivered a special lecture in the College level Seminar organized by Department of Botany and Research Centre, Saraswathi Narayanan College, Madurai 28<sup>th</sup> November 2011.
3. Seaweed Culture. Delivered an invited lecture in the state level Seminar on Emerging Trends in Plant Sciences organized by Department of Botany and Research Centre, Madura College (Autonomous), Madurai on 7<sup>th</sup> February 2012.
4. Current Status of Seaweed Farming in India. Delivered a lecture at the Stakeholders meet in Regional Center Central Marine Fisheries Research Institute (CMFRI – ICAR), Mandapam Camp, Ramanathapuram on 24<sup>th</sup> July 2014.
5. Seaweed Cultivation – a suitable option for the upliftment of coastal Fisherfolk. Delivered a lecture in the Fisheries officials interaction meeting, Andhra Pradesh at National Fisheries Development Authority (NFDB), Hyderabad on 3<sup>rd</sup> February 2015.
6. Algal Culture – an Affluent Self Employment. Delivered a lecture in the UGC funded State level seminar on “Entrepreneurial Prospects in Aquaculture” organized by Department of Zoology, Vellalar College for Women (Autonomous), Erode on 5<sup>th</sup> February 2015.
7. Indian Seaweeds – Bio-prospecting, Application and Conservation. Delivered a lecture at Research Centre for Plant Science, Department of Botany, St. Mary’s College, Thoothukudi on 13<sup>th</sup> March 2015.
8. *Kappaphycus* cultivation in India: A Prospective. Delivered a special lecture in the National Symposium on Algae for Human Welfare organized by Department of Botany and Microbiology, Pithapur Rajah’s Government College, Kakinada, Andhra Pradesh on 19<sup>th</sup> to 21<sup>st</sup> August 2015.
9. Seaweed cultivation in India – Present Scenario. Delivered a lecture in the Workshop on Fisheries Resources Management organized by IFAD - Post Tsunami Sustainable Livelihoods Programme (IFAD – PTSLF), Chennai on 28<sup>th</sup> and 29<sup>th</sup> September 2015.
10. Importance of Seaweed Biofertilizer. Delivered a lecture in the State level one day workshop on Combating desertification, land degradation and Drought organized by Ministry of Environment, Forests & Climate Change, PEACE Trust, Dindugal & Department of Botany, PTMTM College, Kamuthi on 4<sup>th</sup> February 2016.
11. Promotional needs for seaweed farming in India. Delivered a lecture at Department of Biotechnology, New Delhi & Central Marine Fisheries Research Institute, Cochin on 18<sup>th</sup> February 2016.

12. Organic farming using seaweeds. Delivered an Invited talk in the state level symposium on Organic Farming and workshop on Agri-Biotechnology for Rural development, Self Employment and Healthy Environment organized by Raja Doraisingam Government Arts College, Sivaganga on 24<sup>th</sup> & 25<sup>th</sup> February 2016.
13. Site selection and standardization of commercial farming of *Kappaphycus alvarezii* at new locations. Delivered a lecture in the International Conference on Advances in Algal Biotechnology organized by School of Biosciences and Technology, VIT University, Vellore and Seaweed Research & Utilization Association, Tamil Nadu on 10<sup>th</sup> to 12<sup>th</sup> August 2016.
14. Seaweed Cultivation – A Lucrative option for Coastal Fisher women. Delivered an Invited talk in the National Seminar on “Seaweeds – A Source of Nutraceuticals, Healthcare Products and New Materials – Future Perspectives” organized by Central Institute of Fisheries Technology, Cochin, Kerala on 9<sup>th</sup> February 2017.
15. “A strategy to develop and strengthen seaweed Industry in Tamil Nadu and Proposing Action Plan for creating sustainable employment opportunities in the coast of Tamil Nadu through Seaweed Industry”. Delivered an invited talk on on 16<sup>th</sup> September 2017 during the “National Seaweed Conference of India - Cultivating Our Future” at NIOT, Chennai, organized by C-DOT - Community Development Organization Trust (C-DOT); Seaweed Innovation Network of India (SINI) and National Fisherfolk Forum (NFF), Chennai, Tamil Nadu.
16. Preparation of Seaweed Bionutrients. Delivered a special lecture in the three days workshop on “Creation of Scientific Awareness” organized by Tamil Nadu state council for Science and Technology, Govt. of Tamil Nadu, Chennai & Department of Botany, PTMTM College, Kamuthi on 23<sup>rd</sup> to 25<sup>th</sup> January 2018.
17. Biodiversity and application of seaweeds as a source of medicine for humanity. Delivered an Invited talk in the “International symposium on Biodiversity of Medicinal plants & Orchids: Emerging trends and Challenges” Organized by Department of Botany & Microbiology, Acharya Nagarjuna University, Nagarjuna Nagar, Guntur, Andhra Pradesh on 9<sup>th</sup> to 11<sup>th</sup> February 2018.
18. Seaweeds: A source of potential feed to Fishes and Prawns. Delivered a invited Plenary Keynote Address in the “International conference on Innovative Research in Biological Sciences” organized by Research Department of Zoology, Pasumpon Muthuramalinga Thevar College, Melaneelithanallur, Sankarankoil (Tk), Tirunelveli, Tamil Nadu on 9<sup>th</sup> January 2019.
19. Protocol for successful commercial farming of *Kappaphycus alvarezii*. Delivered a special lecture in the Training Programme on Seaweed cultivation for Coastal Self Help Groups in

Ramanathapuram District, TN organized by Pasumpon Thiru Muthuramalinga Thevar Memorial College, Kamuthi on 22<sup>nd</sup> February 2019.

20. Biodiversity, Production Utilization of Marine plants (Seaweeds). Delivered a special lecture in the National seminar on Sustainable Development through Biodiversity Conservation organized by St Thomas College, Ranni, Kerala on 22<sup>nd</sup> and 23<sup>rd</sup> February 2019
21. Marine Biodiversity with Special reference to Seaweeds. Delivered an Invited lecture in the National conference on Biodiversity conservation and Sustainability Development organized by Research Department of Botany, Pasumpon Thiru Muthuramalinga Thevar Memorial College, Kamuthi on 06<sup>th</sup> March 2020.
22. Challenges before the local fishermen for adopting seaweed farming Socio Economic Development and Opportunities in Tamil Nadu. Delivered an Invited lecture on 27<sup>th</sup> August 2021 during the “International conference and Exhibition, Seaweed India 2021” organized by Seaweed India and SMART Aqua Post& Agri Post, New Delhi.
23. Value addition of *Spirulina*, Marketing and Exports. Delivered an Invited lecture on 15.03.2022 during the “One day seminar on *Spirulina* Cultivation” organized by APC Mahalakshmi college for Women, Tuticorin
24. Value addition of *Spirulina*, Marketing and Exports. Delivered a Special Address in the “Two Days Workshop on Training in Commercial Farming of *Spirulina* and its value addition” sponsored by DST – SREB, New Delhi and organized by Department of Botany, Pasumpon Muthuramalinga Thevar College, Melaneelithanallur, Sankarankoil (Tk), Tirunelveli, Tamil Nadu on 16<sup>th</sup> March and 17<sup>th</sup> March 2022.

**(f) CONFERENCE/ SEMINAR/ SYMPOSIA PAPER PRESENTED (34 Nos.)**

1. Eswaran K, **Periyasamy C**, Mody KH, Subba Rao PV, Tewari A (2001) Experimental Field Cultivation of *Kappaphycus alvarezii* on the Southeast coast of India and its carrageenan content. Presented at the National symposium on “Marine Algae Research in India Prospect and Retrospect” held at Bharathidasan University, Tiruchirappalli during 16<sup>th</sup> to 18<sup>th</sup> August 2001 and organized by NFMC, Tiruchirappalli and SRUA, Ramanathapuram. Abst.47, pp 34.
2. **Periyasamy C**, Anantharaman P, Balasubramanian T (2012) Sustainable utilization of biological resources – Seaweed farming a good option. Presented at the National conference on “Biodiversity conservation and sustainable utilization” held at Research Department of Botany, Pasumpon Thiru Muthuramalinga Thevar Memorial College, Kamuthi during 11<sup>th</sup> &



12<sup>th</sup> October 2012 and organized by Pasumpon Thiru Muthuramalinga Thevar Memorial College, Kamuthi, Abst.42, pp 57.

3. **Periyasamy C**, Anantharaman P, Balasubramanian T (2012) Seasonal variation in growth and carrageenan yield and properties of *Kappaphycus alvarezii* seaweed from Mandapam coast, Tamil Nadu, India. Presented at the National symposium on “Current trends in Marine plants Research and Utilization” held at Pondicherry University, Pondicherry during 26<sup>th</sup> to 28<sup>th</sup> October 2012 and organized by Perunthalaivar Kamarajar Arts College, Pondicherry and SRUA, Tuticorin, Abst.38a, pp 78.
4. **Periyasamy C**, Anantharaman P, Eswaran K (2012) Commercial seaweed farming in India. Presented at the National seminar on “Algal Ecology” held at CAS in Marine Biology, Madras University, Chennai during 8<sup>th</sup> & 9<sup>th</sup> November 2012 and organized by Krishnamoorthy Institute of Algology, Chennai, Abst.23, pp 23.
5. **Periyasamy C**, Anantharaman P, Balasubramanian T (2012) Upliftment of socioeconomic status of coastal fisherfolk through seaweed farming in Tamil Nadu, India. Presented at the 17<sup>th</sup> International symposium on “Forestry and environment” held at Pegasus Reef Hotel, Wattala, Sri Lanka during 16 & 17<sup>th</sup> November 2012 and organized by Department of Forestry and Environmental Science, University of Jeyawardanepura, Sri Lanka, Abst.p6, pp 115.
6. **Periyasamy C**, Anantharaman P, Balasubramanian T (2013) Commercial scale seaweed farming – best practices (*Kappaphycus alvarezii* (Doty) Doty) in Tamil Nadu coastal waters, India. Presented at the 100<sup>th</sup> Indian science congress on “Plant Sciences” held at Kolkata during 3<sup>rd</sup> to 7<sup>th</sup> January 2013 and organized by The Indian Science Congress Association, Kolkata, Abst.5, pp 69.
7. Anantharaman P, **Periyasamy C**, Balasubramanian T (2013a) Social impact on coastal fisher women by seaweed farming (*Kappaphycus alvarezii*) in Tamilnadu, India. Presented at the 21<sup>st</sup> International seaweed symposium on “Seaweed science for sustainable prosperity” held at Bali Nusa Dua Convention Centre, Indonesia during 21<sup>st</sup> to 26<sup>th</sup> April 2013 and organized by International Seaweed Association and National Organizing Committee, Universitas, Bakrie, Abst.76 , pp 56.
8. **Periyasamy C**, Anantharaman P, Balasubramanian T (2013b) Seasonal variation in growth, carrageenan yield and properties of *Kappaphycus alvarezii* (Doty) Doty seaweed cultivated in Ramanathapuram district, Tami Nadu, India. Presented at the 21<sup>st</sup> International seaweed symposium on “Seaweed science for sustainable prosperity” held at Bali Nusa Dua Convention Centre, Indonesia during 21<sup>st</sup> to 26<sup>th</sup> April 2013 and organized by International

Seaweed Association and National Organizing Committee, Universitas, Bakrie, Abst.121 , pp 111.

9. **Periyasamy C**, Jayabalan N, Anantharaman P (2014) Marine edible seaweed *Kappaphycus alvarezii* cultivation and extraction of byproducts in India. Presented at the International conference on “Seafood Safety, Quality and Traceability systems” held at Majan Ballroom, Al Bustan Palace Hotel, Muscat, Sultanate of Oman during 3<sup>rd</sup> to 5<sup>th</sup> March 2014 and organized by Fishery Quality Control Centre and Directorate General of Fisheries Research, Ministry of Agriculture and Fisheries Wealth, Oman, Abst.26, pp 62.
10. Anantharaman P, **Periyasamy C**, Subba Rao PV (2014) Experimental farming of *Kappaphycus alvarezii* (Doty) Doty to assess the period of harvest in the coastal waters of Palk Bay in Ramanathapuram district of Southeast coast of India, Presented at the National conference on “Progress in Algology in the Indian context” held at Bharathidasan University, Tiruchirappalli during 19<sup>th</sup> to 21<sup>st</sup> September 2014 and organized by Krishnamoorthy Institute of Algology, Chennai, Abst.EE – OP - 01, pp 28.
11. **Periyasamy C**, Selvavinayagam KT, Anantharaman P, Subba Rao PV (2014) Seaweed compost induced water stress tolerance in *Vigna radiata* (L) Wilczek and *Sorghum vulgare* Pers. Presented at the National seminar on “Algae for sustainable Agricultural production” held at Tamilnadu Agricultural University, Madurai during 29<sup>th</sup> & 30<sup>th</sup> September 2014 and organized by Dept. of Seed science and Technology, Dept. of Agricultural Microbiology, Madurai and Seaweed Research and Utilisation Association, Tuticorin. Abst. FO -09, pp 109.
12. **Periyasamy C**, Selvavinayagam KT, Subba Rao PV (2015a) Experimental field cultivation of *Kappaphycus alvarezii* (Doty) Doty in salt pan at Tuticorin, Tamil Nadu, Southeast coast of India. Presented at the National symposium on “Algae for Human Welfare” held at Department of Botany and Microbiology, Pithapur Rajah’s Govt. College, Kakinada, Andhra Pradesh during 19<sup>th</sup> to 21<sup>st</sup> August 2015 organized by Pithapur Rajah’s Govt. College, Kakinada, Andhra Pradesh and SRUA, Parangipettai Abst.TS II 3, pp 43.
13. **Periyasamy C**, Subba Rao PV, Anantharaman P (2015b) Chemical composition of cultivated *Kappaphycus alvarezii* (Doty) Doty in different sites of Mandapam region, Palk Bay, Tamil Nadu, Southeast coast of India. Presented at the National symposium on “Algae for Human Welfare” held at Department of Botany and Microbiology, Pithapur Rajah’s Govt. College, Kakinada, Andhra Pradesh during 19<sup>th</sup> to 21<sup>st</sup> August 2015 organized by Pithapur Rajah’s Govt. College, Kakinada, Andhra Pradesh and SRUA, Parangipettai Abst.TS II 4, pp 44.
14. Subba Rao PV, **Periyasamy C**, Selvavinayagam KT (2015c) Pilot scale cultivation of *Kappaphycus alvarezii* (Doty) Doty at different locations in Andhra Pradesh, East coast of India. Presented at the National symposium on “Algae for Human Welfare” held at

Department of Botany and Microbiology, Pithapur Rajah's Govt. College, Kakinada, Andhra Pradesh during 19<sup>th</sup> to 21<sup>st</sup> August 2015 organized by Pithapur Rajah's Govt. College, Kakinada, Andhra Pradesh and SRUA, Parangipettai Abst.TS II 1, pp 41.

15. Anantharaman P, **Periyasamy C**, Subba Rao PV (2015) Comparative study of growth and carrageenan content of *Kappaphycus alvarezii* (Doty) Doty in Pen culture and raft culture in Palk Bay waters of Ramanathapuram district, Southeast coast of India. Presented at the 20<sup>th</sup> International symposium on "Forestry and environment" held at Department of Forestry and Environmental Science, Sri Lanka during 16 & 17<sup>th</sup> November 2015 and organized by Department of Forestry and Environmental Science, University of Jeyawardenepura, Sri Lanka, Abst.p110, pp 17.
16. Anantharaman P, **Periyasamy C**, Subba Rao PV (2016) *Kappaphycus* farming a source of livelihood for the Fishers in Tamilnadu, Southeast coast of India. Presented at the 22<sup>nd</sup> International seaweed symposium on "Academia meets Industry" held at Copenhagen, Denmark during 19<sup>th</sup> to 24<sup>th</sup> June 2016 and organized by International Seaweed Association and National Organizing Committee, Universitas, Bakrie, Abst. OR 27 - 02 , pp 102.
17. **Periyasamy C**, Subba Rao PV, Anantharaman P (2016a) Socio economic development of coastal people through *Kappaphycus alvarezii* farming using different methods in Tamilnadu, Southeast coast of India. Presented at the 21<sup>st</sup> International symposium on "Forestry and environment" held at Heritance Kandalama Hotel, Dambula, Sri Lanka during 23<sup>rd</sup> & 24<sup>th</sup> September 2016 and organized by Department of Forestry and Environmental Science, University of Jeyawardenepura, Sri Lanka, Abst.21 pp 118.
18. Anantharaman P, **Periyasamy C**, Subba Rao PV (2016b) Experimental cultivation with economics of cultivated *Kappaphycus alvarezii* (Doty) Doty at three different locations of Palk Bay waters, Tamilnadu, Southeast coast of India. Presented at the 21<sup>st</sup> International symposium on "Forestry and environment" held at Heritance Kandalama Hotel, Dambula, Sri Lanka during 23<sup>rd</sup> & 24<sup>th</sup> September 2016 and organized by Department of Forestry and Environmental Science, University of Jeyawardenepura, Sri Lanka, Abst.22 pp 119.
19. Srinivasa Rao A, **Periyasamy C**, Subba Rao PV (2016) Seaweed compost alleviates salt stress in two crop plants. Presented at the A three day international conference on " New approach in agriculture, food & Environmental sciences" held at Department of Botany, Biotechnology & Microbiology, Andhra Loyola College (Autonomous), Vijayawada, Andhra Pradesh, India, Abst. OP 47 pp 47.
20. **Periyasamy C** (2016) Site selection and standardization of cultivation method for the commercial farming of *Kappaphycus alvarezii* at new locations. Presented at the International

conference on “Advances in Algal Biotechnology” held at VIT University, Vellore, Tamil Nadu during 10<sup>th</sup> to 12<sup>th</sup> August 2016 pp 32.

21. Subba Rao PV, **Periyasamy C**, Srinivasa Rao A (2016) Seaweeds: A source of self employment for coastal rural populations in India, Presented at the National conference on “Basic and Applied researchers in Plants and Microbes” held at Punjabi University, Patiala during 03<sup>rd</sup> to 05<sup>th</sup> November 2016 and organized by Department of Botany, Punjab University, Patiala, Abst. PL – - 21, pp 30.
22. **Periyasamy C**, Subba Rao PV (2017) “Pilot Scale Cultivation of *Kappaphycus alvarezii* (Doty) at Rettiyarpettai in Bay of Bengal waters of Cuddalore district, Tamil Nadu, east Coast of India”. Presented at the National symposium on “Algal Diversity and Resource Status: Current trends in Utilization and Prospects for Innovation” held at PG & Research Department of Botany & Marine Ecology & Conservation Lab during 21<sup>st</sup> to 23<sup>rd</sup> September 2017 at V. O. Chidambaram College, Tuticorin, Tamil Nadu and SRUA, Parangipettai Abst.
23. Subba Rao PV, **Periyasamy C**, Suresh Kumar K (2018) Biodiversity and application of seaweeds as a source of medicine for humanity. Presented at the International conference on “Biodiversity of Medicinal Plants & Orchids: Recent Trends and Challenges” (BMPO 2018) held at Acharya Nagarjuna University, Guntur, Andhra Pradesh, India during 9-11 February 2018, pp: MPO 107
24. Periyasamy C, Subba Rao PV, Anantharaman P (2018) Economic Development of Coastal Rural population through Seaweed Farming. Presented at the International Seminar on Coastal and Marine Biodiversity and Conservation organized by Centre of Advanced Studies, Faculty of Marine Sciences, Annamalai University, Parangipettai, Tamil Nadu during 15<sup>th</sup> and 16<sup>th</sup> March 2018 MRE O 15 pp: 60
25. **Periyasamy C**, Subba Rao PV, Jagadis I (2019) Feeding response of Pacific white shrimp *Litopenaeus Vannamei* to conventional feed supplemented with seaweeds. Presented at the International conference on “Innovative Research in Biological Sciences” during 9<sup>th</sup> January, 2019 at Pasumpon Muthuramalinga Thevar College, Melaneelithanallur, Tirunelveli, Tamil Nadu, India , pp 16.
26. Rajalakshmi A, Surya J, **Periyasamy C** (2019) Seaweeds: Wonder plants of the Sea. Presented at the International conference on “Innovative Research in Biological Sciences” during 9<sup>th</sup> January, 2019 at Pasumpon Muthuramalinga Thevar College, Melaneelithanallur, Tirunelveli, Tamil Nadu, India, pp 134.
27. **Periyasamy C** (2019) Biodiversity, Production Utilization of Marine plants (Seaweeds). presented in the National seminar on Sustainable Development through Biodiversity

Conservation on 22<sup>nd</sup> and 23<sup>rd</sup> February 2019 organized by St Thomas College, Ranni, Kerala, pp:

28. Mangaiyarkarasi R, Rakesh S, Elumalai TS, Indhrani B, **Periyasamy C** (2019) Antioxidant, anti inflammatory and anti proliferation effects of fucoidan extracted from the brown seaweed *Sargassum illicifolium* (Turner) C Agardh (in vivo and in vitro) Presented at the 23<sup>rd</sup> International Seaweed Symposium held during 28<sup>th</sup> April to 3<sup>rd</sup> May, 2019 at International Convention Center, Jeju, Korea OR – 19 – 2, pp 129 – 130.
29. **Periyasamy C**, Subbarao PV, Jagadis I (2019). Screening of seaweed as Commercial nutrient supplement with conventional feed for Pacific white shrimp *Litopenaeus vannamei* - Presented in the “**National conference on Emerging Trends in Algae**” organized by Research Department of Botany, St. Xaviers College, Palayamkottai; Seaweed Research and Utilization Association, Parangipettai and Krishnamurthy Institute of Algology, Chennai on 28<sup>th</sup> and 29<sup>th</sup> November 2019. (pp: 78).
30. **Periyasamy C** (2020) Marine Biodiversity with Special reference to Seaweeds. Presented in the National conference on Biodiversity conservation and Sustainability Development on 06<sup>th</sup> March 2020 organized by Research Department of Botany, Pasumpon Thiru Muthuramalinga Thevar Memorial College, Kamuthi, pp: 5 & 6.
31. Padma Darwin D, Rekha GS, Subba Rao PV, **Periyasamy C** (2022) Temporal Variation in Seaweed Diversity and Density in the Coastal Waters of Muttam, Kanniyakumari, Tamil Nadu, South East Coast of India in the National Symposium on Recent Trends and Advances in Biology on 03<sup>rd</sup> March 2022 organized by Department of Zoology, Sri Paramakalyani College, Alwarkuruchi, pp: 81.
32. Padma Darwin D, Rekha GS, Subba Rao PV, **Periyasamy C** (2022) Seasonal Variation in Biochemical Constituents of Different Seaweeds collected from Muttam, Kanniyakumari, Tamil Nadu, South East Coast of India in the National Symposium on Recent Trends and Advances in Biology on 03<sup>rd</sup> March 2022 organized by Department of Zoology, Sri Paramakalyani College, Alwarkuruchi, pp: 82.
33. **Periyasamy C**, Subba Rao PV, Jagadis I (2022) Studies on Seaweed Diversity and Density in the Coastal Waters of Tamil Nadu, Southeast Coast of India in the National Conference on Advances in Biological Sciences on 30<sup>th</sup> March 2022 organized by PG and Research Department of Botany, VO Chidambaram College, Tuticorin, pp: 57.
34. **Periyasamy C**, Subba Rao PV (2022) *Kappaphycus* Farming in Tamil Nadu: Problems and Prospects in the National Conference on Advances in Biological Sciences on 30<sup>th</sup> March 2022

organized by PG and Research Department of Botany, VO Chidambaram College, Tuticorin, pp: 58 - 59.

**(g) CONFERENCE/ SEMINAR/ SYMPOSIA ATTENDED (19 Nos.)**

1. State level training course on “Integrated Rural Energy Planning” funded by Ministry of Non Conventional Energy Sources, Govt. of India organized by School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai during 4<sup>th</sup> and 5<sup>th</sup> September 2000.
2. Seminar on Untapped potential of Seaweed Resources of Tamil Nadu and Scope for Gainful employment of Self Help Women groups of the coastal poor in Seaweed farming held at CMFRI, Mandapam Camp organized by Aquaculture Foundation of India, Chennai during 21<sup>st</sup> to 23<sup>rd</sup> February 2005.
3. National symposium on Marine Plants held at CAS in Marine Biology, Faculty of Marine Sciences, Annamalai University, Parengipettai organized by CAS in Marine Biology and Seaweed Research Utilisation Association, Mandapam Camp, Ramanathapuram, Tamil Nadu during 23<sup>rd</sup> to 25<sup>th</sup> September 2010.
4. Training Programme on Biodiversity of Marine Flora sponsored by MHRD, Govt of India, New Delhi and organized by CAS in Marine Biology, Faculty of Marine Sciences, Annamalai University, Parengipettai on 19<sup>th</sup> and 20<sup>th</sup> March 2014.
5. One day National workshop on “Electronic Resources for Effective learning, teaching and Research: Make it easy” organized by Perunthalaivar Kamaraj Library, Manonmaniam Sundaranar University, Tirunelveli on 9<sup>th</sup> December 2017.
6. A one day Orientation programme on Computers for Digital Era organized by Centre for Academic Affairs, Manonmaniam Sundaranar University, Tirunelveli on 13<sup>th</sup> April 2018.
7. One day workshop on MOOCs through SWAYAM organized by Manonmaniam Sundaranar University, Tirunelveli on 19<sup>th</sup> November 2018.
8. Two days workshop on NAAC Reforms: Outcome based Education – an Overview organized by IQAC, V.O. Chidambaram College, Tuticorin, Tamil Nadu during 14<sup>th</sup> and 15<sup>th</sup> December 2018.

9. One day Zonal level (Seminar) Orientation Programme for YRC Programme Officers sponsored by Youth Red Cross, Tamil Nadu branch organized by Manonmaniam Sundaranar University, Tirunelveli on 30<sup>th</sup> January 2019.
10. Training programme on EAT Module of Public Finance Management Systems (PFMS) for HEI's at Loyola College (Autonomous), Chennai organized by UGC South Eastern Regional Office, Hyderabad on 10<sup>th</sup> March 2019.
11. Capacity building Programme on ICT Enabled Effective Institutional Governance for improving processes be compliance ready and adapt digital transformation organized by MasterSoft ERP Solutions Pvt Ltd, Nagpur on 24<sup>th</sup> June 2019.
12. A seminar on National Educational Policy 2019 Tamil Nadu Perspective organized by IQAC Pasumpon Muthuramalinga Thevar College, Melaneelithanallur and Desiya Chinthanai Kazhagam, Chennai, Tamil Nadu on 13<sup>th</sup> July 2019.
13. NPTEL workshop conducted by IIT Madras organized by Manonmaniam Sundaranar University, Tirunelveli on 19<sup>th</sup> July 2019
14. Two days workshop on Public Management Systems (PFMS) organized by the IQAC, National College, Tiruchirappalli during 26<sup>th</sup> and 27<sup>th</sup> November 2019.
15. A “Workshop on Medicinal coding Programme” organized by Research Department of Zoology and Department of Chemistry, Pasumpon Muthuramalinga Thevar College, Melaneelithanallur, Sankarankoil, Tenkasi, Tamil Nadu on 10<sup>th</sup> January 2020.
16. Red Ribbon club Programme officers meet & The peer Educators Training Programme sponsored by Tamil Nadu state Aids Control Society (TANSACS), Chennai organized by Manonmaniam Sundaranar University, Tirunelveli on 05<sup>th</sup> February 2020.
17. State Level Workshop on “Public Financial Management System (PFMS) with Special Reference to TSA” organized by Virudhunagar Hindu Nadar's Senthilkumara Nadar College, Virudhunagar, Tamil Nadu on 13<sup>th</sup> and 14<sup>th</sup> December 2021.
18. Faculty Development Program on “What, Why and How of Patents” organized by Department of Biotechnology, V. V. Vanniaperumal College for Women (Autonomous), Virudhunagar, Tamil Nadu Under Star College Scheme on 14<sup>th</sup> February 2022.
19. One Day Workshop on User Awareness on Sophisticated Instruments” organized by Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu on 18<sup>th</sup> April 2022.



**(h) SKILL TRAINING PROGRAM ATTENDED (08 Nos.)**

1. Three days workshop on “**Data Analysis using SPSS**” organized by Department of Management studies, National Institute of Technology, Trichy during 25<sup>th</sup> to 27<sup>th</sup> November 2017.
2. Two weeks **Faculty Development Programme** on “Managing Online Classes and Cocreating MOOCS” sponsored by Ministry of Human Resource Development, Pandit Madam Mohan Malaviya National Mission on Teachers and Teaching organized by Teaching Learning Centre, Ramanujan College, University of Delhi, New Delhi during 20<sup>th</sup> April to 6<sup>th</sup> May 2020.
3. Five days online workshop on “Effective online Teaching Methodologies” organized by Department of Commerce with Corporate Secretaryship, Kamaraj College, Tuticorin during 18<sup>th</sup> to 22<sup>nd</sup> May 2020.
4. Five days online **Faculty Development Programme** on “Indigenous Knowledge Systems and Modern Education” organized by Sree Ayyappa College for Women and Shiksha Sanskriti Uttan Nyas (SSUN) during 25<sup>th</sup> to 29<sup>th</sup> May 2020.
5. Two weeks **MOOC workshop for College Teachers** on “Management of Environment and its Resources” organized by Department of Chemistry & Research, Nesamony Memorial Christian College, Marthandam, Kanniyakumari and Department of Chemistry & Research, St . Xavier’s College, Palamkottai, Tirunelveli during 19<sup>th</sup> May to 1<sup>st</sup> June 2020.
6. Four weeks **Induction/ Orientation Programme** for “Faculty in Universities/ Colleges/ Institutes of Higher Education” sponsored by Ministry of Human Resource Development, Pandit Madam Mohan Malaviya National Mission on Teachers and Teaching organized by Teaching Learning Centre, Ramanujan College, University of Delhi, New Delhi during 04<sup>th</sup> June to 1<sup>st</sup> July 2020.
7. Two weeks **Faculty Development Programme** on “Advanced concepts for developing MOOCS” sponsored by Ministry of Human Resource Development, Pandit Madam Mohan Malaviya National Mission on Teachers and Teaching organized by Teaching Learning Centre, Ramanujan College, University of Delhi, New Delhi during 2<sup>nd</sup> to 17<sup>th</sup> July 2020.
8. Two Days “In Service Teacher Training Program” organized by Tamil Nadu State Council for Higher Education, Chennai in association with Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu on 05<sup>th</sup> and 06<sup>th</sup> May 2022.

**(i) ACT AS CHAIR/ Co CHAIR/ JUDGE (04 Nos.)**

1. **Co Chaired** a session in the National symposium on “Algal Diversity and Resource Status: Current trends in Utilization and Prospects for Innovation” held at PG & Research Department of Botany & Marine Ecology & Conservation Lab during 21<sup>st</sup> to 23<sup>rd</sup> September 2017 at V. O. Chidambaram College, Tuticorin, Tamil Nadu and SRUA, Parangipettai.
2. **Co Chaired** a session in the International conference on “Innovative Research in Biological Sciences” during 9<sup>th</sup> January, 2019 at Pasumpon Muthuramalinga Thevar College, Melaneelithanallur, Tirunelveli, Tamil Nadu, India.
3. **As a Judge** for District level Essay and Speech Competition - College Red Cross Volunteers held at Government Boys Higher Secondary School, Tenkasi on 25<sup>th</sup> January 2020 (Voters Awareness Day) organized by Indian Red Cross Society, Tenkasi
4. **As a Judge** for Eco Competitions (Elocution) held at Florence Swainson Higher Secondary School, Palayamkottai, Tirunelveli on 25<sup>th</sup> February 2020 organized by National Green Corps, Department of Environment, Government of Tamil Nadu.

**OTHER ADMINISTRATIVE ACTIVITIES:**

1. As NAAC Assistant Coordinator from 2019 onwards
2. As YRC Programme Officer from 2018 to 2022
3. As RRC Programme Officer from 2018 onwards
4. As UGC College Coordinator for PFMS EAT Module from 2018 onwards
5. As MOOCs and Swayam portal Coordinator from 2018 onwards.
6. As Faculty Committee Member for Greenery in Swachhta Action Plan (SAP) from 2020 onwards.
7. As Nodal Officer from 08<sup>th</sup> January 2021 onwards
8. As Coordinator for AISHE and NIRF from 15<sup>th</sup> April 2022 onwards

**This information pertains up to 15<sup>th</sup> May, 2022.**

**(Dr. C. PERIYASAMY)**