

PROFILE

Name **R.Raja**
Designation Professor
Unit Research and Development Wing
Affiliating Institution Sree Balaji Medical College and Hospital (SBMCH) - BIHER, Chennai-600 044, Tamil Nadu, India.
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Details	Google Scholar	Scopus	Web of Science
Total citations	2466	1362	1253
h-index	22	16	16
i10-index	30		

Total Impact Factor: 132.005

Education Qualification				
S. No	Institute, Place	Degree	Year	Specialization
1.	University of Madras, Chennai	Ph.D.	2004	Marine Microalgae
2.	DIPC. (Industrial Pollution & Control)	DIPC.	1996	Pollution control
3.	University of Madras, Chennai	M.Sc.	1998	Botany
4.	University of Madras, Chennai	B.Sc.	1992	Botany

Ph.D. Thesis (2003)

Studies on *Dunaliella salina* (Dunal) Teod. with special reference to its anticancer properties

Academic Experience			
S. No	Institute, Place	Designation	Period
1.	Sree Balaji Medical College and Hospital (BIHER), Chennai, India	Professor	Oct'2021 - Till date
2.	University of Algarve, Portugal	Post-Doctoral Fellow	May'2012 - April'2013
		Research Scientist	May'2013 - Sep'2018
		Auxiliary Investigator	Oct'2018 - Oct'2021

3.	Aquatic Energy LLC, Lake Charles, Louisiana, USA	Lead Scientist	Aug'2010 – Oct'2011
4.	Department of Biotechnology, Indian Institute of Technology Madras, Chennai, India	Post-Doctoral Fellow	Mar'2008 - Mar' 2010
5.	Swiss Garnier Life Sciences, Chennai, India	Senior R&D Executive	Aug'2007 - Jan' 2008
6.	Nutraville International Ltd., Chennai, India	Senior R&D Executive	Mar'2006 - May'2007
7.	Graduate Institute of Biotechnology, National Chung Hsing University, Taiwan	Post-Doctoral Fellow	Aug'2004 - Dec'2005

Publications –Articles		IF	Citations
1.	Vijayakumar Maduraimuthu, Jayappriyan Kothilmozhian Ranishree, Raja Mohan Gopalakrishnan, Brabakaran Ayyadurai, Rathinam Raja , Klaus Heese 2023. Antioxidant Activities of Photoinduced Phycogenic Silver Nanoparticles and its Potential Applications. <i>Antioxidants</i> .	7.675	
2.	Sabariswaran Kandasamy, Mathiyazhagan Narayanan, Rathinam Raja , Kesavan Devarayan, R. Kavitha 2023. Current challenges and future perspectives on algae in wastewater treatment and energy conversion: waste to energy. <i>Current Opinion in Environmental Science & Health</i> , 33, 100409 (Published Online)	-	
3.	Angelin Swetha T, Abhispa Bora, K. Mohanrasu, P. Balaji, Rathinam Raja , Kumar Ponnuchamy, Govarthan Muthusamy, A. Arun 2023. A comprehensive review on Polylactic Acid (PLA)-Synthesis, Processing and Application in Food Packaging. <i>International Journal of Biological Macromolecules</i> , 234, 123715	8.025	
4.	Arunkumar K, Madhuri Nalluri, Anjana P, Mohan G and Rathinam Raja 2023. Fucoxanthin as antioxidant, anti-hyaluronidase and cytotoxic agent: Potential of brown seaweeds decoction for tea supplement. <i>Journal of Food Measurement and Characterization</i> .	3.006	
5.	Rathinam Raja , Shanmugam Hemaiswarya, Kulandaiyesu Arunkumar, Mathiyazhagan N, Sabariswaran K, A.Arun and P. Ramasamy 2023. Efficacy of <i>Eisenia bicyclis</i> phlorotannins in the treatment of diabetes and reducing inflammation. <i>Food Bioscience</i> , 52, 102381.	5.318	
6.	Arunkumar K, K. Sreena, Muhsina Moosa, G. Mohan and Rathinam Raja 2022. Cytotoxic characterization of optically negative <i>Codium fragile</i> polysaccharide in HeLa and MCF cell lines. <i>Bioactive Carbohydrates and Dietary Fibre</i> , 23: 100341.	3.62	
7.	Angelin Swetha T, Mohanrasu K, Sudhakar Muniyasamy, Rathinam Raja , Kumar Ponnuchamy, Govarthan Muthusamy and A.Arun 2022. A Comprehensive Review on Techniques used in Conversion of Biomass into Bioeconomy. <i>Sustainable Energy Technologies and Assessments</i> , 53.	7.632	5
8.	Sathish Raam Ravichandran, Chitra Devi Venkatachalam, Mothil Sengottian, Sarath Sekar, Bhavya Shri Subramaniam Ramasamy,	7.086	2

	Mathiyazhagan Narayanan, Abilash Valsala Gopalakrishnan; Rathinam Raja 2022. A review on fabrication, characterization of membrane and the influence of various parameters on separation process. <i>Chemosphere</i> , 306.		
9.	Mathiyazhagan Narayanan, Mostafa El-sheekh, Ying Ma, Arivalagan Pugazhendhi, Devarajan Natarajan, Gajendiran Kandasamy, Rathinam Raja , Suresh Kumarasamy, Balaji Paulraj, Guanglong Liu, Sabariswaran Kandasamy 2021. Current status of microbes involved in the degradation of mixed contaminants of pharmaceuticals and personal care products (PPCPs) pollutants in the aquatic ecosystem. <i>Environmental Pollution</i> , 300, 118922.	8.071	28
10.	Nadia Bahammou, Rathinam Raja , Isabel S. Carvalho, Khalil Cherifi, Hafida Bouamama, Ouafa Cherifi 2021. Assessment of the Antifungal and Antioxidant Activities of the Seaweeds Collected from the Coast of Atlantic Ocean, Morocco. <i>Moroccan Journal of Chemistry</i> , 9(3).	-	1
11.	Sabariswaran Kandasamy, Mathiyazhagan Narayanan, Zhixia He, Guanglong Liu, Muthusamy Ramakrishnan, Palaniswamy Thangavel, Arivalagan Pugazhendhi, Rathinam Raja and Isabel S Carvalho 2021. Current strategies and prospects in algae for remediation and biofuels: An overview. <i>Biocatalysis and Agricultural Biotechnology</i> , 35, 102405	-	28
12.	Mathiyazhagan Narayanan, Murugan Prabhakaran, Devarajan Natarajan, Sabariswaran Kandasamy, Rathinam Raja , Isabel S. Carvalho, Veeramuthu Ashokkumar, Arunachalam Chinnathambi, Sulaiman Ali Alharbi, Kesavan Devarayan and Arivalagan Pugazhendhi 2021. Phycoremediation potential of <i>Chlorella</i> sp. on the polluted Thirumanimutharu river water. <i>Chemosphere</i> , 277, 130246.	7.086	13
13.	Arunkumar K, Reeshma Raj, Rathinam Raja and Isabel S Carvalho 2021. Brown seaweeds as a source of anti-hyaluronidase compounds. <i>South African Journal of Botany</i> , 139, 470-477.	2.315	12
14.	Ananthi V, Rathinam Raja , Isabel S Carvalho, P.Arivalagan and A.Arun 2021. A realistic scenario on microalgae based biodiesel production: Third generation biofuel. <i>Fuel</i> , 284: 15, 118965.	7.033	75
15.	Arunkumar K, Rathinam Raja , VB Sameer Kumar, Ashna Joseph, Shilpa T and Isabel S Carvalho 2021. Antioxidant and cytotoxic activities of sulfated polysaccharides from five different edible seaweeds. <i>Journal of Food Measurement and Characterization</i> , 15, 567-576.	5.354	22
16.	Mathiyazhagan Narayanan, Natarajan Devarajan, Zhixia He, Sabariswaran Kandasamy, Veeramuthu Ashokkumar, Rathinam Raja and Isabel S Carvalho, 2020. Assessment of microbial	-	23

	diversity and enumeration of metal tolerant autochthonous bacteria from tailings of magnesite and bauxite mines. <i>Materials Today: Proceedings</i> , 33, 4391-4401.		
17.	Rathinam Raja , Hemaiswarya Shanmugam, Sekaran Sridhar, Arun Alagarsamy, Venkatesan Ganesan, Sanniyasi Elumalai and Isabel S Carvalho 2020. Evaluation of proximate composition, antioxidant properties and phylogenetic analysis of two edible seaweeds. <i>Smart Science</i> , 8(3): 95-100.	-	3
18.	Venkatesan Ganesan, Rathinam Raja , Shanmugam Hemaiswarya, Isabel S Carvalho and Narayanaswamy Anand, 2020. Isolation and characterization of two novel plasmids pCYM01 and pCYM02 of <i>Cylindrospermum stagnale</i> . <i>Saudi Journal of Biological Sciences</i> , 27(1): 535-542.	4.219	4
19.	Raja R , Ana Coelho, S. Hemaiswarya, K. Parkavi, Isabel S Carvalho and A. Arun 2018. Applications of Microalgal Paste and Powder as food and feed: An update using Text Mining Tool. <i>Beni-Suef University Journal of Basic and Applied Sciences</i> , 7(4): 740-747.	-	76
20.	Ananthi V, G. Siva Prakash, K. Mohan Rasu, K. Gangadevi, T. Boobalan, Rathinam Raja , K. Anand, M. Sudhakar, Anil Chuturgoon, A. Arun 2018. Comparison of integrated sustainable biodiesel and antibacterial nano silver production by microalgal and yeast isolates. <i>Journal of Photochemistry & Photobiology B: Biology</i> , 186: 232-242.	6.252	36
21.	Rathinam Raja , Shanmugam Hemaiswarya, Venkatesan Ganesan, and Isabel S Carvalho, 2017. Internal Transcribed Sequence of <i>Halocafeteria seosinensis</i> (Bicosoecids). <i>Beni-Suef University Journal of Basic and Applied Sciences</i> , 6(3): 266-268.	-	4
22.	Rathinam Raja , Shanmugam Hemaiswarya, K. Arunkumar and Isabel S Carvalho, 2016. Antioxidant activity and lipid profile of three seaweeds of Faro, Portugal. <i>Brazilian Journal of Botany</i> , 39(1): 9-17.	1.296	29
23.	Rathinam Raja , Hemaiswarya S, V. Ganesan and Isabel S Carvalho, 2016. Recent developments in therapeutic applications of cyanobacteria. <i>Critical Reviews in Microbiology</i> , 42(3): 394-405.	6.281	67
24.	Raja R , Hemaiswarya S, Isabel S. Carvalho and K. Arunkumar, 2015. Impact of salt effluent and seaweed liquid fertilizers on three microalgae. <i>Brazilian Journal of Botany</i> , 38(3): 547-553.	1.296	6
25.	Hemaiswarya S, R. Raja , R. Ravikumar and Isabel S. Carvalho, 2013. Mechanism of action of probiotics. <i>Brazilian Archives of Biology and Technology</i> , 56: 113-119.	0.546	147
26.	Hemaiswarya S, R. Raja , Isabel S Carvalho, R. Ravikumar,	3.689	42

	Vasudeo Zambare and Debmalya Barh, 2012. An Indian scenario on renewable and sustainable energy sources with emphasis on algae. <i>Applied Microbiology and Biotechnology</i> , 96: 1125-1135.		
27.	Louise Teixeira Cerdeira, Maria Paula Cruz Schneider, Anne Cybelle Pinto, Sintia Silva de Almeida, Anderson Rodrigues dos Santos, Eudes Guilherme Vieira Barbosa, Amjad Ali, Flávia Figueira Abur jaile, Vinicius Augusto Carvalho de Abreu, Luis Carlos Guimarães, Siomar de Castro Soares, Fernanda Alves Dorella, Flávia Souza Rocha, Erick Bol, Pablo Henrique Caracciolo Gomes de Sá, Thiago Souza Lopes, Maria Silvanira Barbosa, Adriana Ribeiro Carneiro, Rommel Thiago Jucá Ramos, Nilson Antônio da Rocha Coimbra, Alex Ranieri Jerônimo Lima, Debmalya Barh, Neha Jain, Sandeep Tiwari, Rathinam Raja , Vasudeo Zambare, Preetam Ghosh, Eva Trost, Andreas Tauch, Anderson Miyoshi, Vasco Azevedo and Artur Silva (2011). Complete Genome Sequence of <i>Corynebacterium pseudotuberculosis</i> strain-CIP 52.97 - isolated from horse in Kenya. <i>Journal of Bacteriology</i> , 193: 7025-7026.	3.219	20
28.	Hemaiswarya S, R. Raja , R. Ravi kumar, V. Ganesan and C. Anbazhagan, 2011. Microalgae: A sustainable source for feed in aquaculture. <i>World Journal of Microbiology and Biotechnology</i> , 27: 1737-1746.	3.312	465
29.	Hemaiswarya S, M. Poonkothai, R. Raja and C. Anbazhagan, 2009. Comparative study on the antimicrobial activities of three Indian medicinal plants. <i>Egyptian Journal of Biology</i> , 11: 52-57.	1.995	43
30.	Hemaiswarya S, R. Raja , C. Anbazhagan and V. Thiagarajan, 2009. Antimicrobial and mutagenic properties of the tubers of <i>Gloriosa superba</i> Linn. (Kalihari). <i>Pakistan Journal of Botany</i> , 41: 293-299.	0.972	33
31.	Raja R , S. Hemaiswarya, N. Ashok kumar, S. Sridhar and R. Rengasamy, 2008. A perspective on the biotechnological potential of microalgae. <i>Critical Reviews in Microbiology</i> , 34: 77-88.	7.349	499
32.	Hemaiswarya S and R. Raja , 2008. Effect of bark leachate of <i>Thespesia populnea</i> on <i>Amaranthus tricolor</i> . <i>Allelopathy Journal</i> , 22: 253-258.	0.635	-
33.	Raja R , S. Hemaiswarya, D. Balasubramanyam and R. Rengasamy, 2007a. PCR-identification of <i>Dunaliella salina</i> (Volvocales, Chlorophyceae) and its growth characteristics. <i>Microbiological Research</i> , 162: 168-176.	5.415	53
34.	Rathinam Raja , Shanmugam Hemaiswarya, Dakshanamoorthy Balasubramanyam and Ramasamy Rengasamy, 2007b. Protective effect of <i>Dunaliella salina</i> (Volvocales, Chlorophyta) on experimentally induced fibrosarcoma on wistar rats.	5.415	78

	<i>Microbiological Research</i> , 162: 177-184.		
35.	Raja R , S. Hemaiswarya and R. Rengasamy, 2007c. Exploitation of <i>Dunaliella</i> for β -carotene production. <i>Applied Microbiology and Biotechnology</i> , 74: 517-523.	3.53	344
36.	Yi feng Hsu, Co-shine Wang and Rathinam Raja , 2007. Gene expression pattern at desiccation in the anther of <i>Lilium longiflorum</i> . <i>Planta</i> , 226: 311-322.	4.116	19
37.	Raja R , C. Anbazhagan, V. Ganesan and R. Rengasamy, 2004b. Efficacy of <i>Dunaliella salina</i> (Volvocales, Chlorophyta) in salt refinery effluent treatment. <i>Asian Journal of Chemistry</i> , 16: 1081-1088.	0.247	29
38.	Rathinam Raja , Hemaiswarya S, Ganesan V and Isabel S Carvalho, 2014. Biomass from microalgae: An overview. <i>Oceanography</i> , 2: 1-7.	-	68
39.	Raja R , C Anbazhagan, D Lakshmi, R Rengasamy 2004a. Nutritional studies on <i>Dunaliella salina</i> (Volvocales, Chlorophyta) under laboratory conditions. <i>Seaweed Research and Utilization</i> , 26: 127-146.	-	38

Publications - Books		Publisher
1.	Algae Materials and their Applications will be published by Springer Publications edited by K. Arunkumar, A. Arun, Rathinam Raja and P. Ramasamy (2023).	Elsevier
2.	Rathinam Raja , S. Hemaiswarya, K. Arunkumar and P. Ramasamy 2022. <i>Dunaliella: Antioxidant and anticancer Perspective</i> . LAP Lambert Academic Publishing, Maldova.	Lambert
3.	Rathinam Raja , Shanmugam Hemaiswarya, N. Ashok Kumar and S. Sridhar 2022. <i>Nutraceuticals and Health Supplements of Dunaliella</i> . Discovery Publications, Chennai, India, June 2022, ISBN 9789394762145.	Discovery Publications
4.	Algae for Food: Cultivation, Processing and Nutritional Benefits published by CRC Press, Taylor and Francis Group edited by Rathinam Raja , Shanmugam Hemaiswarya, K. Arunkumar and Isabel S. Carvalho, 2021, ISBN-13: 9780367762087	Taylor & Francis
Books Editing		
5.	Arun A, Kunyu Zhang, Sudhakar Muniyasamy and Rathinam Raja , 2023. Biodegradable Polymers, Blends and Biocomposites: Trends and Applications . ISBN 9781032302492	Taylor and Francis Books
6.	Rathinam Raja , Shanmugam Hemaiswarya, N. Mathiyazhagan, K. Sabariswaran, and K.R. Jayappriyan 2023. <i>Haematococcus: Biochemistry, Biotechnology and Biomedical Applications</i> .	Springer Publishers, Maldova.
Book Chapters		
1	Yogeswar Mohanasundaram, Valle Natarajan, Nagarajan Arumugam and	Intechopen

	Rathinam Raja 2022. Cyanobacteria as a Source of Biodegradable Plastics in the book ‘Cyanobacteria - Recent Advances and New Perspectives’ (ISBN 978-1-80356-462-3), Intechopen Publishers Ltd, London, UK. (Submitted)	Publishers
2	Ashokkumar N, S. Sridhar, K. R. Jayappriyan and Rathinam Raja 2022. Microalgae application in aquaculture feed (Chapter 32) in the book ‘Handbook of Food and Feed from Microalgae: Production, Application, Regulation, and Sustainability’ edited by Eduardo Jacob-Lopes will be published on August 2022. (Revision Submitted)	Elsevier Publishers
3	Umashree VR, Rathinam Raja and K. Arunkumar 2022. ‘Seaweed culture and its food value’ a 8 th Chapter in ‘Climate Change Adaptations in Algae and It’s Potential Implications as Alternative Food Source’ 415 Oser Avenue, Suite N, Hauppauge NY 11788-3619, USA.	Nova Science Publishers
4	Jayappriyan KR, Kurinjimalar C, M. Kaviraj A, M.Vijayakumar, R. Rajkumar and Rathinam Raja 2021. Bioactive compounds from algae: Potential applications, a chapter in Algal Functional Foods and Nutraceuticals: Benefits, Opportunity and Challenges. Edited by Avinash Mishra, Bentham Publishers	Bentham Publishers
5	Mathiyazhagan Narayanan, Sabariswaran Kandasamy, Shanmugam Hemaiswarya, Rathinam Raja and Isabel S Carvalho 2021. ‘Algal biotechnology for nutritional and pharmaceutical applications (Chapter 15), in Marine micro and macroalgal technologies of Biotechnology in Healthcare: Technologies and Innovations, Vol I, Edited by Debmalya Barh	Elsevier Publications
6	Parkavi K, R. Raja , K. Arunkumar, Ana Coelho, S. Hemaiswarya and Isabel S. Carvalho, 2020. Recent insights into algal biotechnology: An update using text mining tool. 19 th chapter in ‘Encyclopedia of Marine Biotechnology’ Edited by Se Kweon Kim, Wiley-Blackwell Publishers, ISBN: 978-1-119-14377-2.	Wiley-Blackwell
7.	Mohanrasu K, RGR Rao, R Raja and A. Arun, 2020. Bioremediation Process by marine microorganisms. Encyclopedia of Marine Biotechnology. Editor Se-Kwon Kim-Marine ISBN: 978-1-119-14377-2, Vol. 4, pp 2211-2228.	Wiley-Blackwell
8.	Mohanrasu K, R. Guru Raj Rao, M. Sudhakar, Rathinam Raja , J. Jeyakanthan, A. Arun 2020. Marine Microbial Pharmacognosy: Prospects and Perspectives, Chapter 6 in Marine Niche: Applications in Pharmaceutical Sciences, (Eds.) Nathani N, Mootapally CS, Gadhvi IR, Maitreya B, Joshi CG, ISBN: 978-981-15-5017-1	Springer Nature
9.	Raja R , Hemaiswarya S, Ravikumar R and Isabel S Carvalho, 2018. Chapter 4. ‘Microalgae biomass production’ from Marine macro and microalgae: An overview Edited by Xavier Malcata F, Isabel Sousa Pinto and Catarina Guedes A, CRC Press, Taylor & Francis Group, ISBN 9781498705332 (An Imprint of Edenbridge Ltd, British Channel Islands) Enfield, New Hampshire-03748, Portland, USA, Pages 63-77.	CRC
10.	Hemaiswarya S, Ramaraj Sathasivam, Rathinam Raja , Arunkumar K and	Elsevier

	Isabel S. Carvalho, 2018. 'Algal biotechnology: An update from industrial and medical point of view' Chapter 3 in Part I: Microbial and Plant Technologies: Omics Technologies and Bioengineering: Towards improving quality of life. Edited by Debmalya Barh and Vasco Azevedo, Volume II, 1 st Edition, Academic Press Imprint: ISBN: 9780128046593, USA, pp 31-52.	Publications
11.	Ramaraj Sathasivam, S Hemaiswarya, R Raja , V Ganesan, C Anbazhagan, Isabel S Carvalho and Niran Juntawong, 2015. 'Microalgae as an attractive source for biofuel production' Chapter 8 in Environmental Sustainability-Role of green technologies, Edited by P. Thangavel and G. Sridevi, ISBN 9788 132 220 558 pp 129-157.	Springer Publishers
12.	Raja R , Hemaiswarya S, Isabel S Carvalho and V. Ganesan, 2014. 'Therapeutic applications of cyanobacteria with emphasis on their economics' Chapter 6 in 'Cyanobacteria: An Economic Perspective' Edited by Naveen K Sharma, Lucas J Stal and Ashwani K. Rai, Chichester, ISBN 9781119941279, pp 93-102.	John Wiley Blackwell
13.	Hemaiswarya S, R. Raja , R. Ravikumar and Isabel S Carvalho, 2013. Chapter 3: 'Microalgae taxonomy and breeding in 'Biofuel Crops: Production, Physiology and Genetics' GA, UK. Edited by Bharat P.Singh, ISBN-13: 9781845938857, pp 44-53.	CABI
14.	Hemaiswarya S, R. Raja , R. Ravikumar, A. Yogesh kumar and Isabel S Carvalho, 2013. 'Microalgal omics and their applications' Chapter-18 (Part II) in 'OMICS: Applications in Biomedical, Agricultural and Environmental Sciences', USA, Edited by Debmalya Barh, Vasudeo Zambare and Vasco Azevedo, ISBN: 9781466562837, 439-451.	CRC
15.	Raja R and S. Hemaiswarya, 2010. 'Microalgae and immune potential' a chapter in 'Dietary Components and Immune Function' edited by Ronald R. Watson, Sherma Zibadi and Victor R. Preedy, Humana Press/Springer, USA, ISBN: 978-1-60761-060-1, pp 515-527.	Springer
16.	Raja R , 2009. Microalgae [Pourriel probable] contributed a column in the II nd Chapter in 'Un monde invisible (Microbes)' edited by Laurence Bordenave, Published by Aubanel-La Martinière, La Martinière Group, ISBN: 9782700606706, France, pp 124-126 (French Edition)	La Martinière Group
Patents		
1.	Babu Sarangam, Rathinam Raja , Jayappriyan Kothilmozhan Ranishree and Ramasamy Palaniappan 2022. A process of preparation of Seaweed based biodegradable plastic film and product thereof. Ref. No. 202241004976 (Filed)	
2.	Kulanthaiyesu Arunkumar, Anjana P, Madhuri Nalluri and Rathinam Raja 2021. Anti-aging Brown Algae Tea and preparation method thereof. Ref. No. 202141054015 (Filed)	
3.	Rathinam Raja , K.Arunkumar, Mathiyazhagan Narayanan and Sabariswaran Kandasamy, A.Arun, K.Jayappriyan, and Ramasamy Palaniappan 2022. A system for refining salt effluent. Patent Filed No. 202241020077.	

Overseas Experience

Totally Thirteen years and three months both academic and industrial segments (till date).

Total Experience

Twenty years and two months - Teaching, Research and Industry (16 years research and teaching; industry alone 3.8 years).

European Graduates

My Ph.D. has been officially recognized (2017) as an equivalent to European Ph.D. (<https://graduates.name/country-pt-1146>) on December 2017.

FELLOWSHIPS RECEIVED

International Fellowships

- **National Science Council** (NSC 94-2752-B005-006 GC 94021) of Taiwan.
- **Brain Korea-21** of South Korea.
- **FCT** (Fundação para a Ciência e Tecnologia # DFRH-Bolsa SFRH/BPD/63402/2009) fellowship awarded by the Ministerio Da Ciencia, Tecnologia E Ensino Superior of Portugal (2012 – 2018).

National Fellowship

- **Divashri** (Association of Biotechnology Led Enterprises) (BIO/07-08/054/ALUM/HODX) at Department of Biotechnology, IIT Madras, Chennai, India.

Visiting Faculty

Faculty of Allied Health Sciences, Mahatma Gandhi Medical College, **Sri Balaji Vidyapeeth Deemed University**, Puducherry, India (Since 01.08.2018).

Distinguished Adjunct Faculty

‘Distinguished Adjunct Faculty’ in the Department of Pharmacology, **Saveetha Institute of Medical and Technical Sciences**, Chennai, India (Since 31.08.2021).

GenBank Deposition

GenBank Accession numbers

Hemaiswarya S, Ganesan V, **Raja R** and Isabel S Carvalho, 2013.

- KF573418 (*Dunaliella bardawil* RR17)
<https://www.ncbi.nlm.nih.gov/nuccore/KF573418>
- KF573419 (*Dunaliella salina* RR101)
<https://www.ncbi.nlm.nih.gov/nuccore/KF573419>

- KF573420 (*Dunaliella salina* RR102)
<https://www.ncbi.nlm.nih.gov/nuccore/KF573420>
- KF548309 (*Halocafeteria seosinensis*)
<https://www.ncbi.nlm.nih.gov/nuccore/KF548309>
- KF545980 (*Halocafeteria seosinensis*)
<https://www.ncbi.nlm.nih.gov/nuccore/KF573418>

Ganesan V, Hemaiswarya S, Radhakrishnan N, **Raja R** and Isabel S Carvalho, 2016.

- KX817339 (*Hematococcus pluvialis*)
<https://www.ncbi.nlm.nih.gov/nuccore/KX817339>
- KX817340 (*Hematococcus pluvialis*)
<https://www.ncbi.nlm.nih.gov/nuccore/KX817340>
- KX817341 (*Hematococcus pluvialis*)
<https://www.ncbi.nlm.nih.gov/nuccore/KX817341>
- KX817342 (*Hematococcus pluvialis*)
<https://www.ncbi.nlm.nih.gov/nuccore/KX817342>
- KX817343 (*Hematococcus pluvialis*)
<https://www.ncbi.nlm.nih.gov/nuccore/KX817339>

Raja R, Sridhar S, Hemaiswarya S, Isabel S Carvalho and Ganesan V, 2018.

- MH469623.1 Unknown Diatom <https://www.ncbi.nlm.nih.gov/nuccore/MH469623>

Raja R, Sridhar S, Hemaiswarya S, Isabel S Carvalho and Ganesan V, 2018.

- MH429839 (*Halimeda opuntia*) <https://www.ncbi.nlm.nih.gov/nuccore/MH429839>

Raja R, Sridhar S, Hemaiswarya S, Ganesan V, Arunkumar and Isabel S Carvalho, 2018.

- MH569440 (*Gracilaria corticata*) <https://www.ncbi.nlm.nih.gov/nuccore/MH569440>

PH.D., EXTERNAL (FOREIGN) EXAMINER

Alagappa University, Annamalai University, Bharathiar University, Bharathidasan University, Karunya University, Mangalore University, Periyar University, Pondicherry Central University, Thiruvalluvar University, University of Madras and VIT University.

Doctoral theses evaluated

- Mr.N.Senthilkumar 2013, P.Murugan 2014, M.G.Rajaram 2015, V.Shyamala, 2018 & S.Jayshree 2018. Centre for Advanced Studies in Botany, **University of Madras**, Guindy Campus, Chennai, India.
- Mr.S.Vino 2014 & Vijayaragavan Selvarangan 2014. School of Biosciences and Technology, **Vellore Institute of Technology (VIT)**, Vellore, Tamil Nadu, India.

- Mr.Rahul Chandran 2016, P.S.Sreeja 2018 & S.Saikumar 2019. Department of Botany, **Bharathiar University**, Coimbatore, India.
- Mr.S.Mukund 2016 & M.Palanisamy 2017. Department of Plant Science and Plant Biotechnology, Ramakrishna Mission **Vivekananda College**, Mylapore, University of Madras, Chennai, India.
- Mr.K.Gopinath 2016. Department of Bioinformatics, **Alagappa University**, Karaikudi, Tamil Nadu, India.
- Mr.S.Manikandaprabhu 2016. Department of Zoology, **Annamalai University**, Annamalai Nagar, Chidambaram, Tamil Nadu, India.
- Ms.W.Femina 2016 & Ms.Joshini 2016. Department of Biotechnology, **Karunya University**, Coimbatore, India.
- Mr.G.Dinesh Babu 2017. Department of Marine Biotechnology, NFMC, School of Marine Sciences, **Bharathidasan University**, Trichy, India.
- Mr.K.Arivoli 2017. **Institute of Forest Genetics and Tree Breeding** (Bharathiar University), Forest Campus, R.S.Puram, Coimbatore-641 002, India.
- Mr.N.Madhivanan 2017, Department of Civil Engineering, **Pondicherry Engineering College**, Pondicherry Central University, Pudhucherry, India.
- Ms.T.Vimala 2017, A.Eswari 2019 & N.Padmapriya 2020. Department of Plant Science and Plant Biotechnology, **Queen Mary's College** (University of Madras), Beach Road, Mylapore, Chennai, India.
- Mr.C.Kumar 2018. Department of Botany (Bharathiar University-Part time), **Government Arts College, Tiruvannamalai**, Tamil Nadu, India.
- Mr. S.Palanivel 2018. Department of Botany, **Guru Nanak College** (University of Madras), Velachery, Chennai, India.
- Ms.S.Priya 2019. Plant Biology and Plant Biotechnology (Bharathiar University-Part time), **Ethiraj College for Women**, Chennai, India.
- Mr.M.Prasanna 2019. Department of Botany, **Government Arts College** (Thiruvalluvar University), **Tiruvannamalai**, Tamil Nadu, India.
- Ms.S.Vijayalakshmi 2019 & M.I.Farheena 2019. Department of Botany, **Chikkanna Government Arts College** (Bharathiar University), Tirupur, Tamil Nadu, India.
- Mrs.G.Malathi 2019. Department of Botany, **Arignar Anna Government Arts College** (Periyar University), Namakkal, Tamil Nadu, India.

- Ms.D.Latha 2019. Department of Inorganic Chemistry, **University of Madras**, Guindy Campus, Chennai, India.
- Ms.M.Christhu Uthayam 2019. Department of Botany, **Annamalai University**, Annamalai Nagar, Chidambaram, Tamil Nadu, India.
- Ms.S.Valarmathi 2019. Department of Botany, **Kandasamy Kandar's College** (Periyar University), P.Velur, Namakkal District, Tamil Nadu, India.
- Mrs.V.Ananthi 2020, Mr.G. Sivaprakash 2020, Department of Microbiology, **Alagappa University**, Karaikudi, Tamil Nadu, India.
- Mr.Mohammed Shameer Cheriya 2020, Department of Botany, Sri Vyasa N.S.S. College, Wadakkanchery, Thrissur (Dt.), Kerala (**Bharathiar University**), India.
- Mrs.V.Sarumathi 2020. Department of Botany, Govt. Arts College (**Bharathiar University**), Cheyyar, Tamil Nadu, India.
- Ms.Severes Alifha Rosy 2020. Department of PG Studies and Research in Biotechnology, St. Aloysius College (**Mangalore University**), Mangaluru, Karnataka, India.
- Mr.W.Parveen 2021. Department of Plant Biology and Plant Biotechnology, Quaid-E-Millath Govt. College for Women (**University of Madras**), Chennai-600 002, India.
- Ms.R.C. Rency 2021. Department of Botany, Govt. Arts College, **Bharathiar University**, Coimbatore, India.
- Mr.Prathik Kulkarni 2021. Department of Civil Engineering, **Pondicherry Engineering College**, Pondicherry Central University, Pudhucherry, India.

R&D Project

(<https://www.fct.pt/apoios/projectos/consulta/aavaliar.phtml.en?iep=18595&idconcurso=217>)

Raja Rathinam: EXPL/MAR-BIO/1456/2013. Diversity of microalgal strains from Portugal with respect to Long chain Omega 3 Fatty acids (LC ω -3 FA), Universidade do Algarve (UAlg).

Co-Supervisor (UG dissertations @ FS Lab, University of Algarve)

1. Ms.Beatriz Ponte, 2018. Antioxidant activity of medicinal plants with antidiabetic properties.
2. Ms.Vessa Kola, 2019. Antioxidant activity and phenolic contents of *Cistus ladanifer*, *Thymbra capitata* and *Mentha suaveolens*.

INTERNATIONAL TRAVEL GRANTS RECEIVED

1. From Indian Agencies

- **Raja R**, R. Rengasamy and G.K.Suraishkumar, 'Vth Asian Pacific Phycological Forum-Algae in a changing world" held at Rutherford house, Pipitea campus, Wellington during

10th-14th, November 2008 conducted by Victoria University and NIWA, **New Zealand** (Poster presentation - Sponsored by DST and CCSTDS, India).

- **Rathinam Raja**, R. Rengasamy and G.K.Suraishkumar, 'III International Conference on Environmental, Industrial and Applied Microbiology (BioMicroWorld 2009)' during 2-4, December 2009 organized by Formatex Research Centre held at University of Lisbon, Lisbon, **Portugal** (Oral presentation - Sponsored by DBT and IIT Madras Alumni, India).

2. From foreign countries

- **Raja R** and Co-shine Wang 'Innovation in Plant Cell Biology' held between 13th and 14th Jul' 2005 at Activity centre, Institute of Academia Sinica, Nankang, Taipei, **Taiwan** (Sponsored by National Chung-Hsing University, Taichung).
- **Raja R** and Co-shine Wang 'Mini-Symposium on Cytokine Research' held between 25th and 26th Oct' 2005 at Activity centre, Institute of Academia Sinica, Nankang, Taipei, **Taiwan** (Sponsored by National Chung-Hsing University, Taichung).
- **Raja R** 'Nutraceuticals and functional food for healthy aging' held between 19th and 21st Oct' 2006 conducted by The Korean society of food science and nutrition and Korea Food and Drug Administration at Geomungo-B Hall, TEMF hotel, Gyeong-ju, **South Korea** (Sponsored by Hallym University, Chuncheon).
- **Rathinam Raja** and G.K.Suraishkumar, 'Wind, Sea, Algae-International Conference on Offshore Algae production cum Workshop on Biofuels and Beyond' held at Maribo Sopark during 20th-22nd, Apr' 2009 conducted by Baltic Sea Solutions, Maribo, Lolland, **Denmark** (Sponsored by Lolland Municipality), Poster presentation.
- **Rathinam Raja** and Isabel S Carvalho, 'European Seaweed Industry: Current status and future perspectives' conducted by Netalgae during 6th-7th, November 2012 at Palacio Miramar Jauregia, San Sebastian-Basque County, **Spain** (Sponsored by FCT, Portugal).
- **Rathinam Raja**, Hemaiswarya S, and Isabel S Carvalho, 'International Algal Congress' held at Rotterdam during 5-6 December 2012, **The Netherlands** (Poster presentation - Sponsored by FCT, Portugal).
- **Rathinam Raja** and Isabel S Carvalho, Workshop on 'Bioenergies on 2nd Generation' during 14th December 2012 held at Center of Marine Sciences (CCMAR), University of Algarve, Gambelas, Faro, **Portugal**.

- **Raja R** and Isabel S Carvalho, An invitee lecture entitled, ‘Microalgae: test tube to open raceway ponds’ on Mar’4th 2013 in the Department of Biology, Universite Hassan II, Casablanca, **Morocco** (Partially sponsored by Bio3Dakhla, Dakhla, Morocco).
- **Raja R** and Isabel S Carvalho, Keynote Speaker in ‘2nd International Congress on Plant biodiversity’ held at Hôtel Sémiramis, Marrakech’ during 27th to 29th Mar’2014 conducted by University of Hassan II, **Morocco** (Partially sponsored by Bio3Dakhla, Dakhla).
- **Raja R** an invitee lecture held at Seminar hall-2, Second Floor, Institute of MASCIR during 25th Mar’2014 at Rabat, **Morocco** (Partially sponsored by Bio3Dakhla, Dakhla).
- **Raja R** and Isabel S Carvalho, AEBIOM-Biomass Counts 4th Event ‘Bioenergy-Fueling Europe with jobs and innovations’ held on 20.10.2015 at Residence Palace, International Press Centre, Brussels, **Belgium**.
- **Raja R**, The cultural heritage of the Mediterranean diet’ held on 9th and 10th May 2017 at First floor, Grand Auditorium, Gambelas, University of Algarve, Faro, **Portugal**.
- **Raja R**, S. Hemaiswarya and Isabel S. Carvalho, 8th Symposium on ‘Microalgae and Seaweed products in Plant/Soil-Systems’ held in between 26th and 27th June 2017 organized by Department of Plant Sciences, Faculty of Agricultural and Food Sciences, Széchenyi István University at Mosonmagyaróvár, **Hungary**.
- **Raja R**, Training on ‘Microalgae processes: from fundamentals to industrial scale’ held on 13th-15th September 2017 at Department of Chemical Engineering, University of Almeria, **Spain**. (Financially supported by the EUALGAE Framework Programme from Horizon 2020; Grant award No.: ECOST-Training_School-ES1408-130917-086875)
- **Raja R**, Meeting on ‘UK Microalgal Biotechnology: Creating a Unified Vision’ organized by Phyconet between 1st and 2nd February 2018 held at Aurora Cambridge, British Antarctic Survey, High Cross, Madingley Road, Cambridge, **England** (Registration and accommodation waived).
- **Rathinam Raja**, CCMAR Seminar series on ‘Commercial cultivation of microalgae-an industrial process update’ held at Room # 2.31, Building 7 on 27th Feb’ 2019 organized by CCMAR, University of Algarve, Gambelas, Faro, **Portugal** (<https://www.ccmар.ualg.pt/en/activities/seminario>)
- **Raja R**, Training School on ‘Analysis of Carotenoids’ held on 8-10 April 2019, organized by Prof. Paul D. Fraser, School of Biological Sciences, Royal Holloway

University of London (RHUL), Egham Hill, **England** (Financially supported by EUCOST programme).

- **Raja R**, Training course on ‘Algal biotechnology techniques and opportunities for the sustainable bioeconomy’ organized by Fraunhofer-Institut für Grenzflächen-und Bioverfahrenstechnik IGB held between 12th and 13th of November 2019 at Stuttgart, **Germany** (Financially supported by Fraunhofer IGB).

Algae Workshop @ Ualg

- Attended an ‘Algae workshop on Investigation, innovation sustainability and stimulating circular bioeconomics’ organized by CCMAR, University of Algarve held on 22nd November 2019 at Faculty of Economics Auditorium, Building 8, Gambelas, Faro, **Portugal**.

VAIBHAV SUMMIT 2020 - INDIA

- Vertical: V13 - Earth Sciences; H2: Ocean Science and Technology; S6: Marine and Deep Sea Biotechnology (Web seminar as a Panelist in Vaishwik Bharatiya Vaigyanik Summit) held on 07th October 2020 at 02:00 pm organized by **DRDO, Government of India**, New Delhi, India (<https://vaibhav.gov.in/v11.php>) (Delivered Lecture)

Collaborators

- ACME Progen Biotech (India) Pvt. Ltd., Salem, Tamil Nadu, India
- Bio3Dakhla, Dakhla, Morocco
- Department of Plant Science, Central University of Kerala, Kerala, India
- Department of Microbiology, Alagappa University, Karaikudi, Tamil Nadu, India
- Department of Biotechnology, IIT Madras, Chennai, India
- Faculty of Sciences and Techniques, Cadi Ayyad University, Marrakech, Morocco

Industrial Consultations

- ✓ Bio3Dakhla, Dakhla, Morocco (since Nov’ 2012)
- ✓ AcmeProgen (India) Pvt. Ltd., Salem, Tamil Nadu, India (since Jun’2010)

Virtual Seminars Attended - International

- Understanding Food Safety: Concepts and Challenges in a Changing World is organized by the UNIMED Sub-Network Food & Water held on 14th October 2020, University of Evora, **Portugal**.
- New developments in the cultivation of seaweed and microalgae – 22nd January 2021, from 10 to 12 am, organized by EATiP (European Aquaculture Technology & Innovation Platform) Forum, **Belgium**.

- Digitalisation in Aquaculture – 26th March 2021 from 10 to 12 am, organized by EATiP (European Aquaculture Technology & Innovation Platform) Forum, **Belgium**.
- Clean microalgae as a base for complete nutrition lecture delivered by Jagjit S Kaurah, CEO - Algae International Bhd., Sembilan, Malaysia held on Apr 22, 2021 8:00 AM - 8:40 AM BST organized by GIRACT, Geneva, **Switzerland**.
- Participated in a webinar ‘Think Algae out of water’ held on January 17th, 2022 organized by the Portuguese Association of Applied Algology, Lisbon, **Portugal**.
- Participated in a International conference ‘Seaweed Around The Clock’ held on 2nd June 2022, Virtual Event organized by **BioMarine Organization, UK**.

Indian Virtual Conferences - Invited Lectures

- ✓ Invitee lecture in an International Webinar on ‘Recent Trends in Ethnomedicine (Herbal Medicine-2020), held on 06.06.2020 organized by PG & Research Department of Botany, **Kandasamy Kandar’s College** (Periyar University), Velur, Namakkal District, India.
- ✓ Invited Speaker in an International Virtual Conference on ‘Natural products and Synthetic Biology’, held in between 4th & 5th Jul’2020 organized by SBST & Society of Chemical and Synthetic Biology, **Vellore Institute of Technology** (VIT), Katpadi, Vellore District, India. <https://vit.ac.in/files/Session-Schedule.pdf>
- ✓ Special lecture in an International Webinar Conference on ‘Applications of Algae’ held on 18th July 2020 organized by Department of Microbiology, **K.R.College of Arts and Science** (Manonmaniam Sundaranar University), Kovilpatti, Tamil Nadu, India.
- ✓ Plenary lecture in an International Webinar on ‘Modern biology and future perspectives’ held in between 5th and 6th August 2020 organized by PG and Research Department of Botany and Microbiology, **AVVM Sri Pushpam College** (Bharathidasan University), Poondi-613503, Thanjavur, Tamil Nadu, India.
- ✓ Resource person in an International Webinar on ‘Living capsules in Aquaculture (LICA 2020)’ held on 13th - 17th October 2020 organized by Department of Marine Science, **Bharathidasan University**, Tiruchy-620 024, Tamil Nadu, India.
- ✓ Resource person in an International Webinar on ‘Advanced Zoological Research Approaches’ held in between 21st and 22nd February 2021 organized by PG Department of Zoology, **Syed Ammal Arts and Science College** (Alagappa University), Kootampuli, Ramanathapuram-623 513, Tamil Nadu, India. (<https://easychair.org/cfp/icee2021>)

- ✓ Invited Speaker in an International webinar on 'Recent and Emerging Trends in Biotechnology' held on 27th February 2020 @ 02.30 pm organized by the Department of Botany and Bioinformatics, **Nirmala College for Women** (Autonomous) (Bharathiyar University, Coimbatore-641 018, India.
- ✓ Speaker in a Virtual International Conference on Materials for Food, Energy, Environment, and Health organized by **Aufau Science Forum**, Salem, India held on 26th & 27th June 2021.
- ✓ As a '**Resource Person**' in a Virtual workshop on 'How to Publish Research Articles in SCI Journals' held on 18th Nov'2021 organized by the Department of Botany, **Nirmala College for Women** (Autonomous), Bharathiyar University, Coimbatore-641 018, India.
- ✓ Speaker in a Virtual International Conference on Materials for Food, Energy, Environment, and Health organized by Aufau Science Forum, Salem, India held on 26th & 27th June 2021.
- ✓ As a '**Resource Person**' in a Virtual workshop on 'How to Publish Research Articles in SCI Journals' held on 18th Nov'2021 organized by the Department of Botany, **Nirmala College for Women** (Autonomous), Bharathiyar University, Coimbatore-641 018, India.
- ✓ **Invited Speaker & Co-chair** in a 28th National Convention of Food Scientists and Technologists (ICFoST) of Emerging and Adoptable Technologies for Sustainable Agro-Food industries and Economy (EAT-SAFE) held from 20 to 22 Jan'2022 organized in association with Association of Food Scientists and Technologists (AFST), Mumbai & Aurangabad Chapters, Co-organized by CSIR-CFTRI, Mysuru, DRDO-DFRL, Mysuru and Institute of Chemical Technology, Mumbai, India.
- ✓ **Presented** a paper in a Virtual International Conference on 'Recent innovation of Biomaterials in Current Scenario (RICBCS-2022) held on 7th and 8th April 2022 organized by PG & Research Department of Physics & Zoology, **DG Govt. Arts College (W), Mayiladuthurai**, Tamil Nadu, India.
- ✓ Participated in a one day webinar 'To protect the Universe from toxic organic pollutants' held on 10th June 2022, organized by the Department of Research and Innovation, Institute of Electronics and Communication Engineering, **SIMATS School of Engineering**, Thandalam, Chennai, India.
- ✓ Attended an international webinar on 'BioElectroChemical Cell in Toxic Wastewater Treatment' hosted by TechnoBiz (Environmental Technology NewsHour) a **Thailand based TV Channel** on 19th July 2022.

- ✓ Participated in a Magistrate lecture on ‘Physiology and Pathophysiology of Astroglia with some Emphasis on Neurodegenerative Diseases’ on 28th September 2022, conducted by the Department of Physiology, **Sree Balaji Medical College and Hospital (SBMCH)**, Chennai, India.
- ✓ Participated in ‘Two days State Level Technical Workshop on Intellectual Property Rights (IPR)’ held in between 9th and 10th January 2023, conducted by IQAC, **Sree Balaji Medical College and Hospital (SBMCH)**, Chennai, India.

Motivation lectures given in Higher Secondary Schools

- ✓ Municipal Higher Secondary School, Tiruvannamalai & District, Tamil Nadu delivered on 14th August 2018.
- ✓ Municipal Boys Higher Secondary School, Kilpennathur, Tiruvannamalai District, Tamil Nadu delivered on 14th August 2017.

National Conferences/Workshops organized at India

- Served as a ‘**Local Organizing Committee**’ member in the National conference on, ‘Recent developments in cultured Algae’ held at OASTC between 4th and 5th Apr’ 2009 conducted by Department of Botany, Andhra University, Vishakapatnam, India.
- As an ‘**Organizing Secretary**’ in a State level workshop on, ‘Microbial Biotechnology’ between 07th and 08th Nov’ 2009 held at ACME Progen Biotech (India) Pvt. Ltd., Salem, Tamil Nadu, India.
- As a ‘**Co-Organizing Secretary**’ in a National level workshop on, ‘Microbial Biotechnology’ between 06th and 07th Jan’ 2012 held at ACME Progen Biotech (India) Pvt. Ltd., Salem, Tamil Nadu, India.
- As a ‘**Guest Speaker**’ in a Virtual workshop on ‘Art of Research Article Writing’ held on 23rd Jan’2021 organized by the School of Allied Health Sciences, Vinayaka Mission’s Research Foundation, Salem, India.
- **Chaired a session and Organizing committee member** in the 1st National Conference on ‘Sports Medicine and Yoga Therapy’ held between 28th and 29th Jan’2022, organized by Research & Development, Sree Balaji Medical College and Hospital (SBMCH)-BIHER, Chromepet, Chennai, India.
- **Organizing committee member** in the National Science Day-2022 celebration on ‘Integrated approach in S&T for sustainable future’ held on 28th Feb’2022, organized by Research & Development, Sree Balaji Medical College and Hospital (SBMCH)-BIHER, Chromepet, Chennai, India.

- **Organizing Secretary** in the 1st National Conference on Biomaterials in Health Care 2023' to be held on 18th – 19th Aug'2023, organized by Research & Development Wing, Sree Balaji Medical College and Hospital (SBMCH)-BIHER, Chromepet, Chennai, India.

National Level Workshops participated

- National level workshop on '*Gracilaria* species from Indian shores' between 14th and 19th May' 2001 organized by Krishnamurthy Institute of Algology held at Ramakrishna Mission Arts and Science college, Mylapore, Chennai, India.
- National level workshop on 'Recent techniques in Marine Biotechnology' between 2nd and 3rd Feb' 2004 conducted by Centre for Advanced Studies in Marine Biology, Annamalai University, Annamalai Nagar, India.
- Summer Training Programme on 'Molecular, Immunological, Cytological, PCR and Embryological techniques' held at Department of Biotechnology, Veterinary college, Veperi from 17th May to 16th Jun' 2004 conducted by Tamil Nadu Veterinary and Animal Sciences University, Chennai, India.

Scientific Committee Member in International Conferences/Workshops

- '2nd International Congress on Plant biodiversity on Morocco' held at Hôtel LE Sémiramis-BP 525 Quartier Sémialia Route de during 27th to 29th March 2014 organized by University of Hassan II, Marrakech, **Morocco**.
- '3rd International Congress on Plant biodiversity' at Hôtel LE Sémiramis-BP 525 Quartier Sémialia Route de during 9th to 11th Oct 2015 conducted by University of Hassan II, Marrakech, **Morocco**.
- '7th International Conference of Biodiversity and Biotechnology' online from 29th to 30th May 2022 will be conducted by Kuwait Institute for Scientific Research, **Kuwait**.

Advisory Committee Member in International Conferences (India)

- '2nd International on Recent Trends in Microbiology (RTM-2018)' held in between 11 and 12 January 2018 at Conference Hall, 4th Floor, Science Campus organized by Department of Microbiology, **Alagappa University**, Karaikudi, India.
- '3rd International Conference on Recent Trends in Microbiology (RTM-2019)' held in between 24th and 25th January 2019 at Conference Hall, 4th Floor, Science Campus organized by Department of Microbiology, **Alagappa University**, Karaikudi, India.

Teaching experience

- Subjects: Economic importance of microalgae, algae culture maintenance for food industry, commercial cultivation of microalgae for biodiesel, aquaculture and CO₂ accumulation for Graduate and Post-Graduate students.
- More than eight years of teaching experience (including practical classes)

Invitee / Guest Lectures / Plenary Speaker / Keynote address / Chief Guest

- ✓ Special lecture on, 'Recent developments in cultured Algae' held at OASTC between 4th and 5th Apr' 2009 conducted by Department of Botany, **Andhra University**, Vishakapatnam, India. (<https://sites.google.com/site/algaeconfau/Home/Conference-Home>)
- ✓ Invitee lecture in the International conference on 'Eco-conservation for sustainable development' held from 1st to 3rd February 2012 conducted by the Department of Plant Biology and Plant Biotechnology, **Quaid-E-Millath Govt. College for Women** (Autonomous), Chennai-600 002, India.
- ✓ State level Seminar on, 'Biomass and bioenergy for future perspectives' organized by PG Research Department of Botany held on 21st August 2014 at Umayal Arangam, **Government Arts College** (Alagappa University), Karaikudi, India. (**Chief Guest**)
- ✓ Invitee lecture in an International conference on 'Bio-prospecting of natural resources for human health' organized by PG and Research, Department of Zoology, **Dr.Zakir Husain College** (Alagappa University), Ilayankudi, Tamil Nadu, India held on 10th September, 2014. (**Chief Guest**)
- ✓ Plenary Speaker in an International Workshop on 'Green Initiatives in Energy and Environment (GIEE-2014)' organized by the Department of Environmental Science, **Periyar University**, Salem, Tamil Nadu, India held on 11th September, 2014.
- ✓ Guest lecture on 'Algal biomass and downstream processing for biofuel production' held on 17th July 2015 organized by the Department of Civil Engineering, **Dr.MGR Educational and Research Institute**, Chennai, India.
(<http://www.drmgrdu.ac.in/Engineering/DeptOfcivil/Events/2015.htm>)
- ✓ National seminar on Advances in Toxicology and Serinanotechnology (ATS-2015) held on 23rd and 24th July 2015 organized by the Department of Zoology, **Annamalai University**, Chidambaram, India. (**Keynote address and Chief Guest**)
- ✓ Guest lecture on 'Recent trends in Algal research' held on 23rd July 2015 organized by the Department of Botany, **Annamalai University**, Chidambaram, India.

(https://annamalaiuniversity.ac.in/download/NAAC/Annual_report/ANNUAL_REPORT/_2015.pdf)

- ✓ Invitee lecture on 'Algal biomass and downstream processing for biofuel production' in the International Seminar on Recent Research Trends in Biosciences held in between 21 and 22nd July 2016 organized by the Department of Biochemistry and Chemistry, **Idhaya College for Women** (Alagappa University), Sarugani, Devakottai, India. (<http://www.idhayasarugani.in/biochemistry.php>)
- ✓ Guest lecture on 'Algae for biofuel production' held on 22nd July 2016 organized by Research and Development, **Muthayammal College of Arts and Science** (Periyar University), Rasipuram, Salem Dist., Tamil Nadu, India. (<http://www.thehindu.com/news/national/tamil-nadu/engagements/article14501769.ece>) http://muthayammal.in/news_letters/News_Letter_2016_2017.pdf
- ✓ Guest lecture on 'Algae cultivation for biofuel production' held on 4th August 2016 organized by Department of Biotechnology, **KSR Arts and Science College** (Autonomous), KSR Kalvi Nagar, Erode Dist., Tamil Nadu, India.
- ✓ Invitee lecture on 'Algae for sustainable biofuel' in an International Conference in Algal Biotechnology held between 10th and 12th August 2016 at VOC Hall, jointly organized by SBST, **VIT University**, Vellore and Seaweed Research and Utilization Association, Parangipettai-608 502, India. (<http://www.vit.ac.in/files/icaab2016/speakers.html>)
- ✓ Guest lecture on 'Algae cultivation for biofuel' held on 22nd August 2016 organized by the Department of Botany, **Bharathiar University**, Coimbatore, Tamil Nadu, India.
- ✓ 'National Seminar on recent innovations in Biosciences' held on 26th August 2016 organized by the Department of Biotechnology, **Dr.R.V. College of Arts and Sciences**, Karamadai, Coimbatore Dist., Tamil Nadu, India. (**Keynote address and Chief Guest**)
- ✓ Invitee lecture in an 'International Conference on Microalgal and Cyanobacterial biotechnology' held on 29th, 30th and 31st August 2016 organized by NFMC, **Bharathidasan University**, Tiruchy, Tamil Nadu, India.
- ✓ Plenary lecture in a 'National Conference on New frontiers and innovative trends in Biosciences' held between 2nd and 3rd September 2016 organized by PG & Resaerch Departments of Microbiology, Biotechnology and Biochemistry, **JJ College of Arts and Science** (Bharathidasan University), Pudukkottai-622 422, India.
- ✓ Invitee lecture in a 'Seminar on Ozone Day' held at Mini Auditorium on 15th September 2016 organized by Vaishnav Environ Club, **SDNB Vaishnav College for Women** (University of Madras), Chrompet, Chennai-600 044, India.

- ✓ Invitee lecture in a 'National seminar on Phytochemicals as therapeutics' held at Homi Bhabha seminar hall, on 16th and 17th September 2016 organized by Department of Plant Biology and Plant Biotechnology, **Meenakshi College for Women** (University of Madras), Chennai-600 024, India. (<http://www.meenakshicollege.com/events/seminars-workshops>)
- ✓ Invitee lecture held at Seminar hall on 22nd September 2016 organized by Department of Plant Biology and Plant Biotechnology, **Madras Christian College** (University of Madras), Chennai-600 059, India.
<https://www.mcc.edu.in/images/IQAC/NAAC/Criteria2/Graduation-report.pdf>
- ✓ International conference on 'Aquatic science, Biodiversity conservation and Management strategies (InABC-2016)' held on 26th and 28th September 2016 organized by the Department of Zoology, **Annamalai University**, Chidambaram, India.
- ✓ Invitee lecture in a National Conference on Science and Technology for National Development from 5th to 7th October 2016 organized by Department of Biotechnology, **Jain University**, Bengaluru and Indian Science Congress Bengaluru Chapter held at Jayanagar, 9th Block Campus, Bengaluru, Karnataka, India.
(<https://www.jainuniversity.ac.in/Jain-University-organized-a-National-Conference-in-Science-and-Technology-in-Bangalore.php>)
- ✓ International Conference on 'Algal biotechnology: an ecofriendly solution for food, fuel and health' held on 14.10.2016 organized by Research Centre for Plant Science, Department of Botany, **St. Mary's College** (Autonomous), **Manonmaniam Sundaranar University**, Thoothukudi, India. (**Keynote address**)
(<http://stmaryscollege.edu.in/naac/Seminars%20and%20Workshops%20Report.pdf>)
- ✓ Invitee lecture on 25th October 2016 held at Conference hall, first floor, Centre for Ocean Research, **Sathyabama University**, Chennai, India.
- ✓ Invitee lecture on 26th September 2017 held at M.B.A Conference hall, First floor organized by the Department of Botany, **JJ College of Arts and Science** (Bharathidasan University), Pudukkottai, India. (jjc.kvet.in/admin/admin/production/activities/84641-3.3.2-Bot-Conference-Guest%20Lectures-2015-2016-Photos_compressed.pdf)
- ✓ National Conference on 'Trends in Microbiology' on 27th September 2017 held at Conference hall, 4th Floor, Science Campus organized by the Department of Microbiology, **Alagappa University**, Karaikudi, India. (**Plenary lecture and Valedictory address**) (http://alagappauniversity.ac.in/uploads/news_events/1506330981_National_Conference_Trends.pdf)

- ✓ Invitee lecture on 10th April 2018 organized by the Department of Nutrition and Dietetics at Room # 34, **Government Arts College** (Periyar University), Rasipuram, India. (<https://www.tgacraasi.org/image/IQAC%202017-18.pdf>)
- ✓ Invitee lecture on 13th April 2018 held at Botany PG laboratory, First floor organized by the Department of Botany, **Government Arts College** (Thiruvalluvar University), Tiruvannamalai, India. (**Chief Guest**)
- ✓ Inaugural lecture of Microbiology Association meet 'Microcosm' held on 04th July 2018 at the College Auditorium, organized by the Department of Microbiology, **Dr.MGR Janaki College of Arts and Science for Women** (University of Madras), Adyar, Chennai, India.
- ✓ Resource Person for the Green Skill Development Programme (GSDP)-Master training course on 'Waste management' held on July-August 2018 by ENVIS Centre, Department of Zoology, **University of Madras**, Guindy Campus, Chennai-600 025, India.
- ✓ Invitee lecture held on 19th August 2018 at GNR Auditorium, Guindy Campus organized by the Department of Biotechnology, **University of Madras**, Chennai-600 025, India.
- ✓ Guest lecture held on 27th August 2018 at Seminar hall organized by the Department of Biotechnology, **Rajalakshmi Engineering College** (Anna University), Thandalam Chennai-602 105, India. (<https://www.facebook.com/myrecchennai/photos/drrathinam-raja-researcher-university-of-algarve-portugal-delivered-a-guest-lect/> 2096908866995192/)
- ✓ Invited Speaker in a National Symposium on 'Health and Natural Products in Indian System of Medicine-Natura'19', held on 21st July 2019 at Sarojini Naidu Hall, College Block-III Floor, SBV Campus, **Mahatma Gandhi Medical College and Research Institute**, Pillayarkuppam, Pudhucherry-607 402, India.
- ✓ Invited Speaker held at Seminar Hall, First Floor, **Mother Teresa Post Graduate and Research Institute of Health Sciences** on 22nd July 2019, Gorimedu, Pudhucherry-605 006, India.
- ✓ Invitee lecture held on 26th July 2019 at Seminar Hall, 3rd Floor, organized by Department of Biochemistry, **Bharathidasan University**, Trichy-620 024, India.
- ✓ Invitee lecture held on 29th July 2019, Ground floor, Seminar room, organized by the Department of Botany, **Annamalai University**, Chidambaram-608 002, India.
- ✓ Guest Lecture about Research delivered on 11 am, 05th August 2019, First floor, Seminar hall, organized by Department of Civil Engineering, **Pondicherry Engineering College** (Pondicherry Central University), Pudhucherry-605 014, India.

(<https://www.facebook.com/PEC.Pondicherry/photos/a.692357410948399/1129665540550915/?type=3>)

- ✓ Invitee lecture held on 2.30 pm, 05th August 2019, Ground floor, Seminar hall, organized by Department of Biotechnology, **Pondicherry Central University**, Pudhucherry-605 014, India.
- ✓ Resource Person for the Green Skill Development Programme (GSDP)-Master training course on 'Waste management' held on 09th August 2019 by ENVIS Centre, Department of Zoology, **University of Madras**, Guindy Campus, Chennai-600 025, India.

PROFESSIONAL SERVICES

Reviewer in Peer Reviewed International Journals

- | | |
|--|---|
| • Biomolecular Engineering | • Journal of Photochemistry and Photobiology B: Biology |
| • Bioresource Technology | • Journal of Physical and Natural Sciences |
| • Cell Biology International | • Turkish Journal of Fisheries and Aquatic Sciences |
| • Asian Fisheries Society | • Journal of Food Biochemistry |
| | • Cells |
| • Desalination and Water treatment | |
| • Foods | • Plasmid |
| • Environmental Research | • Journal of Food Biochemistry |
| • Fuel | |
| • Environmental Technology | • Aquatic Biosystems |
| | • Smart Science |
| • International Research Journal of Biotechnology | • Jordan Journal of Biological Sciences |
| • Journal of Biology | • Journal of Food Science and Technology |
| • Journal of Cell and Animal Biology | • Applied Energy |
| | • Journal of Medical and Biological Sciences |
| • Journal of Chinese Integrative Medicine | • 3 Biotech |
| • Marine Biotechnology | • Molecular Biology Reports |
| • Marine Drugs | |
| • Spectrochimica Acta Part-A | • Bioprocess and Biosystems Engineering |
| • Archives of Microbiology | • Applied Nanoscience |
| • International Journal of Tropical Insect Science | • Biocatalysis and Agricultural Biotechnology |
| | • Critical Reviews in Biotechnology |

Editorial Board Member in International Journals

1. Agriculture and Biology Journal of North America (<https://scihub.org/abjna/editorial-board/>)
2. IIOAB Letters (<http://iioablett.pitt.edu/ojs/index.php/iioablett/about/editorialTeam>)

3. European Journal of Bioinformatics (www.whitesscience.com/journal/ejb-european-journal-of-bioinformatics/editorial-board-ejb/)
4. International Journal of Zoology and Applied Biosciences (<https://www.ijzab.com/editorial/>)
5. Food Biology (updatepublishing.com/journal/index.php/fb/editorial-board)

Editor

- Whites Science Journal (<https://www.whitesscience.com/raja-rathinam/>)
- Open Journal of Nutrition and Food Sciences (<http://www.medtextpublications.com/open-journal-of-nutrition-and-food-sciences-editorial-board.php>)

Editor-in-Chief

- International Journal of Current Science (Nov'2011-May'2015)

E-Book Series Reviewer

- Bentham Science - Advances in Microalgae Biotechnology (2019)
- Springer Book Series - Grand Challenges in Algae Biotechnology (2019)

Book Reviewer

Elsevier S&T Books-Cultured microalgae in the food industry: Current and potential applications (2019)

CRC Press - Taylor and Francis Group Book-Phytomedicine (2019)

Board of Directors

GreenBubble, Algal works Pvt. Ltd., Basaveswaranagar, Bengaluru-560010, India
(<http://www.greenbubble.co.in/company.html#horizontalTab1>)

Professional Membership in Scientific International Societies

- International Carotenoid Society (15.10.2007 to till date)
- International society for salt lake research (19.02.2008 to till date)
(<http://www.isslr.org/directory/namer.asp>)
- The Global Network for Environmental Science and Technology (11.06.2009 to till date)
- Phyconet, London, UK (24.11.2016 to till date)
- Netalgae Network, Portugal (01.12.2012 to till date)
- EUAlgae (European Network for Algal-Bioproductions) is a Science and Technology Network financed by the European COST programme, Action No ES1408. (Working Group member from 31.05. 2017 to till date) (<http://eualgae.eu/working-groups/wg-2/>)
- ARCH-UK (Aquaculture Research Collaborative Hub-UK)

- Asian Fisheries Society
- Association of International Seafood Professionals - Foundation Member (01.07.2021 onwards)

International Life Member in the European Union Scientific Societies

1. NPRONET (Natural products discovery and bioengineering network, a BBSRC NIBB)
2. CBMNet (Crossing Biological Membranes Network, A BBSRC NIBB)
3. BIOCATNET (Network in biocatalyst discovery, development and scale up)

Honorary Position

- ✓ 'Student's Secretary' during Ph.D., served as a Secretary in the 'Botany club' for the year 2002-2003 at Centre for Advanced Studies in Botany, University of Madras, Guindy Campus, Chennai, India.

UNESCO

- ✓ International Tsunami Information Center (http://itic.ioc-unesco.org/index.php?option=com_oe&task=search&searchText=13794&field=institutionID&title=Members+of+University%20of%20Algarve&orderby=name)
- ✓ IODE (Intergovernmental Oceanographic Commission of UNESCO-International Oceanographic Data and Information Exchange) (https://www.iode.org/index.php?option=com_oe&task=viewMemberRecord&memberID=24181)

Scientific Media

- ✓ LinkedIn : <https://www.linkedin.com/in/rathinamraja/>
- ✓ Research gate : https://www.researchgate.net/profile/Rathinam_Raja
- ✓ ORCID ID : 0000-0002-8445-6034
- ✓ Ciencia ID : E91D-0A35-7AEA
- ✓ Degois : rrja307
- ✓ Researcher ID : M-8564-2013
- ✓ Scopus Author : 160 293 999 00

Social Media

Daily magazine (**Tamil News Paper**), published from Tamil Nadu, India

- ✓ Dinamalar, Madurai Edition, 23.08.2014
- ✓ Dinakaran, Madurai Edition, 24.08.2014
- ✓ Daily Thanthi, Madurai Edition, 25.08.2014

- ✓ The Hindu (Tamil), Coimbatore Edition, 12.10.2014
- ✓ The Hindu (Tamil), Coimbatore Edition, 09.10.2014
- ✓ Daily Thanthi (Tamil), Cuddalore Edition, 01.10.16
- ✓ Pudhugai Varalaaru, Tiruchy Edition, 01.10.17

Daily magazine (**English News Paper**), published from Tamil Nadu, India

- ✓ Chrompet Talk (English), Chennai Edition, 19.09.2016

Daily magazine (**National English News Paper**), India

- ✓ The Hindu, 22nd July 2016

Societal activities at Portugal

- ✓ Participated in the Euraxess Roadshow 2015 organized by the European Commission at the University of Algarve, Faro, Portugal on 30th October 2015.
- ✓ Participated in a programme on 'B-ON'. A research oriented bibliographic downloads using the portal, B-ON: Their features, types and research tools a discussion held on 14th April 2016 organized by the Central Library, University of Algarve, Gambelas, Faro, Portugal.
- ✓ Participated in a Seminar on 'A Economia Circular no Algarve' on 5 e 6 de dezembro de 2018, Auditorio da CCDR Algarve, Faro, Portugal.

Countries visited

Andora	Austria	Belgium	Denmark
Dubai	England	France	Germany
Hungary	Italy	Luxembourg	Malaysia
Morocco	New Zealand	Portugal	Singapore
Slovakia	Spain	South Korea	Switzerland
Taiwan	Thailand	The Netherlands	USA
Wales			