

BIO SKETCH

Dr. T. Citarasu
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Centre for Marine Science and Technology
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Honors / Fellowships:

- ❖ **2019: Top 2 % position of World Ranking Scientist List in Fisheries/ Biotechnology/ Agriculture** https://data.mendeley.com/public-files/datasets/btchxktzyw/files/dd0904a8-0eba-4cf3-be4a-c6092261fed5/file_downloaded
- ❖ **2016: Best Scientist Award in Marine Science** by Pearl Foundation for Educational Excellence, Madurai
- ❖ **2014–2015: Visiting Assistant Professor** (Supported by Raman postdoctoral Fellowship grant, UGC, India) at Institute of Marine and Environmental Technology (IMET), University of Maryland Baltimore County (UMBC), Columbus Center, Baltimore, Maryland (MD), United States of America
- ❖ **2006–2009: Young Scientist** at Centre for Marine Science and Technology, Manonmaniam Sundaranar University, Rajakkamangalam, Kanyakumari Dist, India 629502
- ❖ **2005–2006: Postdoctoral Fellow** at Fish Developmental Genetics & Cell Engineering, State Key Laboratory of Freshwater Ecology & Biotechnology, Institute for Hydrobiology, Chinese Academy of Sciences, Wuhan, China.
- ❖ **2001– 2003: Research Associate** at Centre for Biotechnology, Anna University, and Chennai, India.

Research Profile:

Research Areas

- ❖ Aquatic Animal Health
- ❖ Vaccine Development
- ❖ Herbal Drugs
- ❖ Microbial Bio-prospecting

Important Research Links

Researcher ID : [D-8815-2015](#)
ORCHID ID : orcid.org/0000-0001-6166-620X
Scopus ID : [6506703980](#)
Google Scholar ID : [DQx qucAAAAJ&hl=en](#)
Research Gate : [https://www.researchgate.net/profile/Thavasimuthu Citarasu](https://www.researchgate.net/profile/Thavasimuthu_Citarasu)
LinkedIn : <https://www.linkedin.com/pub/thavasimuthu-citarasu/7/5b/753>

Curricular Attainments:

- ❖ **Ph.D** – Marine Biotechnology (1995- 2000): Centre for Marine Science and Technology, Manonmaniam Sundaranar University, Rajakkamangalam, Kanyakumari, India- 629502.
- ❖ **M.Phil** – Coastal Aquaculture (1993-1994): Manonmaniam Sundaranar University, Rajakkamangalam, Kanyakumari, India.
- ❖ **M.Sc** -Zoology (1991-1993): Ayya Nadar Janaki Ammal College, Sivakasi, Madurai Kamaraj University, Madurai, India.
- ❖ **B.Sc** –Zoology (1987-1990): V.N. College, Madurai Kamaraj University, Madurai, India.

Research Skills:

PCR, RT-PCR, cloning, Construction of cDNA and SMART c DNA Libraries, Northern Blot, *In situ* Hybridization using labeled probes and Immunohisto chemistry, Recombinant protein expression in *E.coli* by various induction methods, Yeast expression, Baculovirus expression,

small animal breeding and handling Recombinant protein purification using Nickel column for His tag and Glutathione Sepharose for GST fusion protein, Protein characterization by SDS-PAGE, Native PAGE electrophoresis, western blot analysis polyclonal antibody and ELISA, polyclonal antibody production, Bacteriophage purification, fin and shell fish culture, DNA vaccine construct and *in silico* approach for drug design etc.

Research Guidance:

Ph. D : 14 (Completed); 06 (Ongoing)

M. Phil : 62 (Completed)

M. Sc : 65 (Completed); 0 (Ongoing)

Publications:

Journals: 91 [h-index: 23 (Google Scholar); 17 (Scopus)]

International

1. **Citarasu, T.**, G. Immanuel and M. P. Marian, 1998. Effects of Feeding *Artemia* enriched with Stresstol and cod liver oil on growth and stress resistance in the Indian white shrimp *Penaeus indicus* post larvae. *Asian Fisheries science* 12: 65-75
2. **Citarasu, T.**, R. Raja Jeya Sekar, M.M.Babu and M. P. Marian, 2002 Developing *Artemia* enriched herbal diet for producing quality larvae in *Penaeus monodon*, *Asian Fisheries Science* 15:21-32.
3. **Citarasu, T.**, K.Venket Ramalingam, R. Raja Jeya Sekar, M. Micheal Babu and M. P. Marian, 2003. Influence of the antibacterial herbs, *Solanum trilobatum*, *Andrographis paniculata* and *Psoralea corylifolia* on the survival, growth and bacterial load of *Penaeus monodon* post larvae. *Aquaculture International*, 11: 583- 595.
4. Sivaram, V., M. M Babu, **T. Citarasu**, G. Immanuel, S. Murugadass and M. P. Marian, 2004, Growth and Immune response of juvenile greasy groupers (*Epinephelus tauvina*) fed with herbal antibacterial active principle supplemented diets against *Vibrio harveyi* infections, *Aquaculture*, 237,1-4:9-20

5. Namita , R., **T.Citarasu**, R. Ravindren and V. Murugan , 2004, Transcriptional and translational expression profile of a WSSV gene in different organs of infected shrimp, *Aquaculture* 245: 31– 38.
6. **Citarasu, T.**, V. Sivaram , G. Immanuel, N. Rout and V.Murugan, 2006, Influence of selected Indian immunostimulant herbs against white spot syndrome virus (WSSV) infection in black tiger shrimp, *Penaeus monodon* with reference to haematological, biochemical and immunological changes, *Fish and Shellfish Immunology*, 21:372-384.
7. Immanuel, G., **T. Citarasu**, V. Sivaram, M.M. Babu and A. Palavesam, 2007, Delivery of HUFA, probiotics and biomedicines through bioencapsulated *Artemia* to enhance the growth, survival and reduce the pathogenesis in shrimp *Penaeus monodon* postlarvae, *Aquaculture International*, 15:137–152.
8. Immanuel, G., **T. Citarasu**, V. Sivaram, V. Selva Sankar and A. Palavesam, 2007 Bioencapsulation strategy and HUFA enrichment in *Artemia franciscana* nauplii by using marine trash fish *Odonus niger* liver oil, *African Journal of Biotechnology*, Vol. 6 (17), pp. 2043-2053.
9. Venketramalingam, K., J. G. Christopher and **T. Citarasu**, 2007. *Zingiber officinalis* an herbal appetizer in the tiger shrimp *Penaeus monodon* (Fabricius) larviculture, *Aquaculture nutrition* , 13 (6), 439–443.
10. Immanuel, G., **T. Citarasu**, V. Sivaram and A. Palavesam, 2009. Effect of medicinal plant extracts on the growth, immune activity and survival of tilapia (*Oreochromis mossambicus*), *Fish Biology* 74, 1462–1475.
11. Punitha , S. M. J., M. M. Babu, V. Sivaram , V. S. Shankar, S.A. Dhas, T. C. Mahesh, G. Immanuel and **T. Citarasu**, 2007, Immunostimulating influence of Herbal Biomedicines on non-specific immunity in Grouper *Epinephelus tauvina* Juvenile Against *Vibrio harveyi* Infection, *Aquaculture International*,16:511–523.
12. Michael Babu, M., V. Sivaram, G. Immanuel, **T. Citarasu**, S.M.J. Punitha, 2008. Effects of Herbal Enriched Artemia Supplementation over the Reproductive Performance and Larval Quality in Spent Spawners of the Tiger Shrimp (*Penaeus monodon*), *Turkish Journal of Fisheries and Aquatic Sciences* 8: 301-307.
13. **Citarasu, T.**, 2010. Herbal Biomedicines- A New Opportunity to Aquaculture Industry, *Aquaculture International* , 18: 403–414

14. Subramanian Velmurugan, Stanly Mary Josephine Punitha, Mariavincnet Michael Babu, Thangasamy Selvaraj, **Thavasimuthu Citarasu**, 2010. Select of Indian antibacterial medicine characteristics herbal to replace antibiotics for shrimp *Penaeus monodon* post larvae, *Journal of Applied Aquaculture*; 22: 230-239.
15. Velmurugan, S. and **T. Citarasu**, 2010. Effect of Herbal Antibacterial Extracts on the Gut Floral Changes in Indian White Shrimp *Fenneropenaeus indicus* *Romanian Biotechnological Letters*; 15, 6: 5709-5717.
16. Aswathy Gopalakrishnan Heineining Nair, Maria Thason Birdilla Selva Donio, Vijaya Raghavan Thanga Viji, Mariavincnet Michaelbabu and **Thavasimuthu Citarasu**, 2010. Isolation from coconut retting effluent of *Bacillus cereus*TC-2 antagonistic to pathogenic Vibrios, *Ann Microbiol.*, 61, 3: 631-637.
17. Kumaran, T., M Michaelbabu, T Selvaraj, S Albindhas, **T Citarasu**, 2010. Production of anti WSSV IgY edible antibody using herbal immunoadjuvant *Asparagus racemosus* and its immunological influence against WSSV infection in *Penaeus monodon*, *J. Aquaculture Feed Sci. Nutr.* 2: 1-5
18. Palanikumar, P., Velmurugan, S. and **T. Citarasu**, 2011. Factors influencing in success of *Penaeus vannamei*, *Aquaculture Asia*, XVI :0-17.
19. Thanga Viji , S., M. Michael Babu, S. Velmurugan, T. Kumaran, S. B. Anand, P. Gunasekaran and **T. Citarasu** 2011. Virulence Factors and Molecular cloning of Outer Membrane Protein (OMP) gene from virulent *Aeromonas hydrophila* isolated from infected gold fish *Carassius auratus*, *Bangladesh Journal of Microbiology*, 28: 2: 70-75
20. Subramanian Velmurugan, Vijayaragavan Thangaviji, Mariavincnet Michaelbabu, Mary Josephine Punitha, **Thavasimuthu Citarasu**, 2012. Antimicrobial effect of *Calotropis procera* active principles against aquatic microbial pathogens isolated from shrimp and fishes, *Asian Pacific Journal of Tropical Biomedicine* 812-S817.
21. Vijayaragavan Thangaviji, Mariavincnet Michaelbabu, Setty Balakrishnan Anand, Paramasamy Gunasekaran, **Thavasimuthu Citarasu**, Protective Efficacy of *Aeromonas hydrophila* OMP Antigen with Herbal Immuno Adjuvant *Asparagus racemosus* in Goldfish *Carassius auratus*, *Journal of Microbial & Biochemical Technology* 4:2.
22. Yogeeswaran, A., Velmurugan , S., Punitha, S.M.J., Babu, M. M., Selvaraj, T., Kumaran, T. and **T. Citarasu**. 2012. Protection of *Penaeus monodon* against White Spot

Syndrome Virus by inactivated vaccine with herbal immunostimulants, Fish and Shellfish immunology 32, 6: 1058-1067.

23. Raja Rajeswari, P., Velmurugan, S., Michael Babu, M., Kesavan, K. and **T. Citarasu**, 2012. A Study on the Influence of Selected Indian herbal Active principles on enhancing the immune system in *Fenneropenaeus indicus* against *Vibrio harveyi* infection, *Aquaclut. Int* 1-14.
24. Velmurugan, S., K. Raman, V. Thanga Viji, M. B. S. Donio, J. Adlin Jenifer, **T. Citarasu**, 2012. Screening and characterization of antimicrobial secondary metabolites from *Halomonas salifodinae* MPM-TC and its *in vivo* antiviral influence on Indian White shrimp *Fenneropenaeus indicus* against WSSV infection, *Journal of King Saud University –Science* 25:181-90.
25. Thanga Viji, V., K. Deepa, S. Velmurugan, M. Birdilla Selva Donio, J. Adlin Jenifer, M. Michael Babu, **T. Citarasu**, 2013. Vaccination strategies to protect goldfish *Carassius auratus* against *Aeromonas hydrophila* infection, *Diseases in Aquatic Organism*, 104:45-57
26. Donio, M.B.S., S.F.A. Ronica V. Thanga Viji, S. Velmurugan, J. A. Jenifer, M. Michaelbabu, P. Dhar and **T. Citarasu**, 2013. Halomonas sp. BS4, A biosurfactant producing halophilic bacterium isolated from solar salt works in India and their biomedical importance, *Springer Plus* 2:149
27. M. B. S. Donio, S. F. A. Ronica, V. Thanga Viji, S. Velmurugan, J. Adlin Jenifer, M. Michaelbabu, **T. Citarasu**, 2013, Isolation and characterization of halophilic Bacillus sp BS3 able to producing pharmacologically important biosurfactants, *Asian Journal of Tropical Medicine*, 876-883
28. Jenifer, A., M.B.S. Donio., V.T. Viji., S. Velmurugan., S.A. Dhas., M.M.Babu and **T. Citaarsu**, 2013. Halo-alkaliphilic actinomycetes From solar salt works in India: Diversity and antimicrobial activity, *Blue Biotechnology Journal* 2 (1): 137-151.
29. Gnanslin Sheeba D, V. Subha, K. Suseela Gomathi and **T. Citarasu**, 2013. Virtual docking studies of flavonoid compounds against cell wall proteins of Mycobacterium tuberculosis. *Asian Journal of Pharmaceutical Research and Development* 1 (4) : 88-97
30. Anusha, P., V. Thangaviji, S. Velmurugan, M. Michael Babu and **T. Citarasu**, 2014, Protection of Ornamental Gold fish *Carrasius auratus* against *Aeromonas hydrophila* by treating *Ixora coccinea* active principles, *Fish and Shellfish Immunology* 36: 485-493.

31. Kumaran, T., V. Thanga viji, S.Velmurugan and **T. Citarasu** 2014. Influence of Selected Antiviral Herbal Active Principles against Shrimp White Spot Syndrome Virus (WSSV), *International Journal of Molecular Biology & Biochemistry* 2 (1): 41-49
32. Velmurugan, S., N. Jerin, M. Michael Babu, F. Bindhu, S. Albin Dhas and **T. Citarasu**, 2014. Screening and characterization of antiviral compound from *Enteromorpha flexuosa* against White Spot Syndrome Virus (WSSV) and its in vivo influences in Indian white shrimp *Fenneropenaeus indicus*, *Aquaculture International*, 23:65–80
33. Sarafin, Y., M. B. S. Donio, S. Velmurugan, M. Michaelbabu and **T. Citarasu**, 2014. Saudi Journal of Biological Sciences *Kocuria marina* BS-15 a biosurfactant producing halophilic bacteria isolated from solar salt works in India 21, 6: 511–519
34. Singh, N.K., C. Kaur., N. Kumar., S. Velmurugan., **T. Citarasu** and S. Mayilraj, 2014. *Bacillus aequororis* sp. nov., isolated from marine sediment, *Current Microbiology*, 69, 5: 758-762
35. Anupa, M. P, B. Vasanthakumari and **T. Citarasu**, 2014, Qualitative phytochemical screening of leaf extracts of *Cissampelos pareira* L. in different solvent systems, *International Journal of Bioassays* 3 (10), 3399-3403
36. Bindhu, F., S.Velmurugan, M. B. S. Donio, M. Michaelbabu and **T.Citarasu**, 2014. Influence of Agathi grandiflora active principles inhibit viral multiplication and stimulate immune system in Indian white shrimp *Fenneropenaeus indicus* against white spot syndrome virus infection, *Fish and Shellfish Immunology* 41: 482-492.
37. Karthikeyan, S.C., Velmurugan, S., Donio, M.B.S., Michaelbabu, M and **T. Citarasu**, 2014. Studies on the antimicrobial potential and structural characterization of fatty acids extracted from Sydney rock oyster *Saccostrea glomerata* *Annals of Clinical Microbiology and Antimicrobials* 13:332
38. Donio, M.B.S., Velmurugan, S., Raman, K., Michael Babu, M and **T. Citarasu**, Antagonistic *Bacillus cereus* TC-1 Isolated from Solar Salt Work in Southern India, 2014. *J Microb Biochem Technol*, 6:5
39. Velmurugan, S., Palanikumar , P., Velayuthani, P., Donio, M.B.S. Michael Babu, M, Lelin , C., Sudhakar , S and **T. Citarasu**, 2015, Bacterial white patch disease caused by *Bacillus cereus*, a new emerging disease in semi-intensive culture of *Litopenaeus vannamei*, *Aquaculture* 444 : 49–54

40. **Citarasu, T.**, Michaelbabu, M and V. N. Vakharia, 2015. Influence of *Cyperus rotundus* Active Principles Inhibit Viral Multiplication and Stimulate Immune System in Indian White Shrimp *Fenneropenaeus indicus* against White Spot Syndrome Virus Infection, *World Academy of Science, Engineering and Technology International Journal of Biological, Food, Veterinary and Agricultural Engineering* 9.
41. Divya, S., Thangaviji, V., Velmurugan, S, Michaelbabu, M and **T. Citarasu**, 2015 Comparative study on Bacterial Outer Membrane Protein (BOMP) and Bacterial Outer Membrane gene (BOMPG) vaccination to goldfish *Carassius auratus* against *Aeromonas hydrophila*, *Journal of Vaccines & Vaccination* 6:2
42. Adlin Jenifer, J.S.C., M. B. S. Donio, M. Michaelbabu, S.G. P. Vincent and T. Citarasu, 2015, Haloalkaliphilic *Streptomyces* spp. AJ8 isolated from solar salt works and its' pharmacological potential, *AMB Express*, 5:59
43. Albin Dhas, S., T. Selvaraj, **T. Citarasu**, S. Mary Josephine Punitha and M. Michael Babu, 2015. Effect of supplemented diet with maturation plant extract on reproductive performance of *Etroplus suratensis*, *Aquaculture Reports* 2:58-62
44. Adel, M., M. Gholaghaie, P. Khanjany and **T. Citarasu**, 2016. Effect of dietary soybean lecithin on growth parameters, digestive enzyme activity, antioxidative status and mucosal immune response of common carp *Cyprinus carpio*, *Aquaculture Nutrition* (In Press) DOI: 10.1111/anu.12483
45. Dhas, S.A, T. Selvaraj, **T. Citarasu**, S.M.J. Punitha, P. Gopal and M.B. Michael, 2017. Effect of Herbal Maturation Diets on Biochemical Composition of Different Organs of *Etroplus suratensis* *J Fisheries Livest Prod* 5:3
46. Banumathi, B., B. Vaseeharan, P. Suganya, **T. Citarasu**, M. Govindarajan, N.S. Alharbi, S. Kadaikunnan, J. M. Khaled and G. Benelli, 2017. Toxicity of *Camellia sinensis*-Fabricated Silver Nanoparticles on Invertebrate and Vertebrate Organisms: Morphological Abnormalities and DNA Damages, *J Clust Sci* 28, 4: 2027–2040
47. Shabi Ruskin, R, B.Vasanthakumari and **T. Citarasu**, 2017, *In vitro* antioxidant activity of various leaf extracts of *Canthium coromandelicum* (Burm.f.) Alston, *Asian Journal of Pharmaceutical and Clinical Research*, 10 (5): 1-5
48. García-Reyes, S., G. Yáñez-Ocampo, A. Wong-Villarreal, R. Rajeshkannan, **T. Citarasu**, R. Patiño and M. Ortiz-Hernández, 2017, Partial characterization of a

- biosurfactant extracted from *Pseudomonas* sp. B0406 that enhances the solubility of pesticides, *Environmental Technology*, 22:1-10
49. Iyaswamy, A., A. Kammella, **T. Citarasu**, W. Wankupar, W. Dapkupar, S. Shanmugam, R. Rajan, S. Rathinasamy, 2017, Oxidative stress evoked damages leading to attenuated memory and inhibition of NMDAR-CaMKII-ERK/CREB signalling on consumption of aspartame in rat model, *Journal of food and drug analysis* 26 (2): 903-916
50. Kumaran, T., E. Thirumalaikumar, C. Lelin, P. Palanikumar, M. Michaelbabu and **T. Citarasu**, 2018, Physicochemical properties of anti *Vibrio harveyi* egg yolk antibody (IgY) and its immunological influence in Indian white shrimp *Fenneropenaeus indicus*, *Fish and Shellfish Immunology* 74 : 349–362
51. Palanikumar,P., D. Daffni Benitta, C. Lelin, E. Thirumalaikumar, M. Michaelbabu, and **T. Citarasu**, 2018. Effect of *Argemone mexicana* active principles on inhibiting viral multiplication and stimulating immune system in Pacific white leg shrimp *Litopenaeus vannamei* against white spot syndrome virus, *Fish and Shellfish Immunology* 75: 243–252
52. **Citarasu, T.** 2018. Marine Biodiversity Threats and Conservation, Examines Mar Biol Oceanogr. 1(3):1-2
53. Donio, M.B.S., S. C. Karthikeyan, M. Michaelbabu, G. Uma, R. Raja Jeya Sekar and **T. Citarasu**, 2018, *Haererehalobacter* sp. JS1, a bioemulsifier producing halophilic bacterium isolated from Indian solar salt works, *J Basic Microbiol.*1–12.
54. Lelin, C., E. Thirumalaikumar, P. Abinaya, P. Sayan, R. Rashmi, A. Arun, S. Sudhakar and **T. Citarasu**, 2018, Draft Genome Sequence of *Escherichia coli* Phage CMSTMSU, Isolated from Shrimp Farm Effluent Water, *Microbiology Resource Announcement* 7 (14) e01034-18
55. **Citarasu, T.**, C. Lelin, E. Thirumalaikumar, M. Michael Babu, V.N. Vakharia, 2019 *Macrobrachium rosenbergii* nodavirus (MrNV)-CP-RNA-2 DNA vaccine confers protective immunity in giant freshwater prawn *Macrobrachium rosenbergii* against MrNV infection, *Fish and Shellfish Immunology* 86: 319–326 (Accepted December 2018) <https://doi.org/10.1016/j.fsi.2018.11.049>
56. **Citarasu, T.**, C. Lelin, A. Arul Nathan, S. B. Anand, M. Michael Babu, V.N. Vakharia, 2019 Oral vaccination of *Macrobrachium rosenbergii* with baculovirus-expressed *M.*

rosenbergii nodavirus (*MrNV*) capsid protein induces protective immunity against *MrNV* challenge, Fish and Shellfish Immunology 86 1123–1129 (Accepted on December, 27 2018)

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58. Kumaran, T and **T. Citarasu**, 2019. Chicken Eggs-a source on antibodies alternative to mammal, Advances in vaccine and vaccination research 1 (1): 16-19
59. Palanikumar, P., D. Wahjuningrum, P. Abinaya, M. Michael Babu, **T.Citarasu**, 2019, Usage of plant natural products for prevention and control of white feces syndrome (WFS) in Pacific whiteleg shrimp *Litopenaeus vannamei* farming in India, Aquaculture International 28: 113-125
60. Ajan, C., Praba, T., Shyni, M., **Citarasu, T.**, Selvaraj, T, Michaelbabu, M., 2020, Long-term Preservation of Micro-algal Stock for Fish Hatcheries, Aquaculture Reports 17: 100329
61. Uma, G., Babu, M.M., Prakash, V.S.G., Nisha, J.S., **Citarasu, T.**, 2020 Nature and bioprospecting of haloalkaliphilics: a review. World J Microbiol Biotechnol 36: 66

National

1. **Citarasu, T.**, R. RajaJeyaSekar, K. Venketramalingam, P. S. Dhandapani and M. P. Marian 2003, Effect of wood apple *Aegle marmelos*, Correa (Dicotyledons, Sapindales, Rutaceae) extract as an antibacterial agent on pathogens infecting prawn (*Penaeus indicus*) lariviculture. *Indian Journal of Marine Sciences*, 32 (2): 156-161.
2. Venkatramalingam, K., **T. Citarasu.**, J. G. Christopher and S. M. J. Punitha, 2009, The occurrence of Halophilic bacteria in solar salterns located at peninsular coast of India, Asian Journal of Microbiology, *Environmental Biology and Biotechnology*, Volume 11 (1): 31-36.
3. T. Selvaraj, T., M. Michael Babu, S. G. Prakash Vincent, **T. Citarasu**, Mary S. Josephine Punitha, S. Albin Das, V. Selva Shankar, R. Arul, S. Velmurugan, K. Hoon and A. P. Lipton, 2009, Mutagenetic Study on Chitinase Producing Chi-a Gene From

- Chromobacterium Sp. Strain C-61 Expressed in Escherichia coli XL-1 Blue, International Journal of Biotechnology and Biochemistry, 5, 1: 63–84.
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 5. Albin Dhas, S., Michael Babu M., Selvaraj T., **Citarasu,T.**, Huxley, V. A. J. and S. Mary Josephine Punitha, 2010. Influence of Hormone Induced Spawning in *Etroplus suratensis*, *Journal of Theoretical and Experimental Biology*; 6 (3): 187-193.
 6. Selvaraj ,T., Michael babu, M., Prakash vincent, S. G., **Citarasu, T** and S. Albin dhas, 2010. Screening of estuarine AM fungi in root-zone soils from Rajakkamangalam estuary and sequencing of native dominant *Glomus geosporum* showing salinity tolerance activity *Bioresearch Bulletin*; 3: 151-160.
 7. **Citarasu, T**, Alfred Dhas, K., Velmurugan, S., Thanga Viji, V., Kumaran, T.,Michael Babu, M. and T. Selvaraj, 2011, Isolation of *Aeromonas hydrophila* from infected ornamental fish hatchery during massive disease outbreak, *International Journal of Current Research*; 2: 1: 037-041.
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 9. Velmurugan, S, Michaelbabu, M., Setty Balakrishnan Punitha, S.M.J., Thangaviji, V, and **Citarasu, T**, 2012. Screening and Characterization of antiviral compounds from *Psidium guajava* Linn root bark against White spot syndrome virus. *Indian Journal of Natural Products and Resources*, 3(2): 208-14.
 10. **Citarasu , T.**, Michaelbabu, M., Zhou, L., Yang, W. and J. F. Gui, 2012. cDNA cloning and expression of Vitamin-k Epoxide Reductase (VKOR) gene from orange spotted grouper *Epinephelus coioides*, *Indian Journal of Geomarine sciences*; 42:5 573-579
 11. **Thavasimuthu Citarasu**, Li Zhou, Wang Yang and Jian Fang Gui, 2012. cDNA cloning and expression of Acyl-Co A Binding Protein (ACBP) like gene from Orange Spotted Grouper *Epinephelus coioides*, *Indian Journal of Biotechnology*; 12 (3): 330-335

12. Johnson , J. A., **T. Citarasu** and P. A. Mary Helen, 2012. Screening of Antibiotic Producing Actinomycetes from Streams, *Journal of Chemical, Biological and Physical Sciences*, 2 (3): 1363-1370
13. Johnson, J.A., **T. Citarasu** and W. A. Manjusha, 2012. Antimicrobial screening and identification of Bioactive compounds present in marine sponge *Zygomycete* sp. collected from Kanyakumari coast, *Journal of Chemical, Biological and Physical Sciences*, 2, (4): 1942-1948.
14. Johnson, J.A., **T. Citarasu** and W. A. Manjusha, 2012. Antimicrobial screening and anti-cancer activity of *Staphylococcus saprophyticus* ACJ 114 isolated from the Marine sponge *Crambe crambe* collected from kanyakumari Coast. *Journal of Basic and Applied Biology*, 6(1):138-145
15. Michael babu, M, **T. Citarasu**, T. Selvaraj, S. Mary Josephine Punitha and S. Albindhas, 2014. Isolation and identification of pathogenic *Enterococcus* sp. from artemia population from puthalam saltpan of Kanyakumari district, India, *J. Aqua Trop.* 29, (3-4):101-120
16. Gopal , P, **T. Citarasu**, S.M.J. Punitha, T. Selvaraj, S. Albindas, A.S. Sindhu and M. Michael Babu, 2014. Influence of physical and nutritive parameters on population and size variation in two species of rotifer. *J. Aqua Trop.* 29,(3-4) : 121-134
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44. Ajan, C., **T. Citarasu** and M. Michael Babu, 2019 Studies on survival of chlorella species preserved with internal cryoprotectants (CPAs) in long term storage, National conference on future trends in marine biotechnology (FTMBT2019), February 14&15, Organized by Centre for Marine Science and Technology, Manonmaniam Sundaranar University

45. Beena, L., **T.Citarasu**, V. Meera Sabari , 2019. Biosurfactants and crude oil degradation, National conference on future trends in marine biotechnology (FTMBT2019), February 14&15, February 14-15,2019, Organized by Centre for Marine Science and Technology, Manonmaniam Sundaranar University
46. Kumaran, T., **T. Citarasu**, 2019. Effect of biologically active IgY antibody isolated from immunized chicken egg, National conference on future trends in marine biotechnology (FTMBT2019), February 14,15, 2019, Organized by Centre for Marine Science and Technology, Manonmaniam Sundaranar University
47. Thirumalaikumar, E., C. Lelin, G. Uma, M. Michael Babu and T. Citarasu “Modern vaccination protocol to control aquatic pathogen in cultivable fin and shellfishes, National conference on future trends in marine biotechnology (FTMBT2019), February 14&15, Organized by Centre for Marine Science and Technology, Manonmaniam Sundaranar University
48. Thirumalaikumar, E., C. Lelin, A. P. S. Abinaya, G. Uma, S. Balasubramanian, M. Michaelbabu and **T. Citarasu** , 2019, Construction of recombinant subunit vaccine using *Aeromonas hydrophila* immunogenic genes through yeast expression system “Two days National Conference on Life Sciences and social development” at Holy Cross College, Nagercoil, 1&2nd March, 2019
49. Abinaya, A.P. S, E. Thirumalaikumar, S. Jeraldin Nisha , G. Uma, **T. Citarasu**, 2020. Screening of biosurfactant producing bacteria from mangrove sediments of Manakudy estuary, kanyakumari district, National Conference on Current Trends in Biological Sciences, St. Xaviers’ College, Palayamkottai, 6-7 February, 2020.
50. Jeraldin Nisha, S., A. P. S. Abinaya, M. Michael Babu, G. Uma, **T. Citarasu**, 2020. Screening and characterization of antagonistic actinomycetes from Rajakkamangalam mangrove swamps, National Conference on Current Trends in Biological Sciences, St. Xaviers’ college, Palayamkottai, 6-7 February, 2020

Invited Talk:

Sl. No	Invited Talk/ Chair	Title	Name and place of the Conference	National/ International	Date & Year
1	Invited talk	Vaccine development	Perspective in Marine Biotechnology, Centre for Marine Science and Technology, Rajakkamangalam	National	21.5. 2010
2	Resource Person	Role of Herbal Medicines in Aquaculture Industry	Academic Staff College, Bharathiar University, Coimbatore	National	2010
3	Resource Person	Concepts in Marine Biotechnology	Academic Staff College, Bharathiar University, Coimbatore	National	2012
4	Invited talk	Trends in Marine Biotechnology	Noorul Islam arts and Science College, Kumarakoil	National	2013
5	Invited Talk	Trends in Marine Biotechnology	Zoology Association, Sri Parasakthi College , Courtallum	National	2014
6	Invited Talk	Trends in Marine Biotechnology	Pioneer Kumaraswamy College College, Nagercoil	National	2014.
7	Chairing Session	Aquatic Sciences and Fisheries	ICASF 2015 : 17th International Conference on Aquatic Sciences and Fisheries, World Academy of Science, Engineering and Technology, Los angeles, USA	International	3.4.2015
8	Invited Talk	Trends in Marine Biotechnology	National seminar on “Marine Bio	National	2015

			resources” at Holy Cross College, Nagercoil		
9	Invited Talk	Marine Environmental Pollution	Department of Botany, S.T. Hindu College, Nagercoil		2016
10	Invited Talk	Applications of Marine Biotechnology	Shri Nehru Maha Vidhyalaya College of Arts and Sciences, Coimbatore		2016
11	Chairing session	Marine Biotechnology	Satellite Symposium on Biotechnology at Malankara Catholic College, Mariagiri, Kaliakkavilai as a part of the International Conference ENFOSE-16.	International	23-9-2016
12	Invited Talk	Alternative approaches to replace the antibiotics in aquaculture industry	CAS in Marine Biology, Annamalai University, Chidambaram	International	2017
13	Invited Talk	Marine natural products and their health applications	Zoology Association, Department of Zoology, Holy Cross College, Nagercoil	National	2017
14	Invited Talk	Marine natural products and their potential health applications	National Conference on Natural Bioactive compounds and Potential effects on Health, St. Aloysius College, Mangaluru.	National	27.1.2017
15	Invited Talk	Trends in Marine Biotechnology	St. Xavier’s College, Palaymkottai, Tirunelveli	National	Date
16	Invited Talk	Marine Bio-	National seminar	National	20.2.2017

		prospecting	on Modern Biological Sciences, SyMBios'17, Shri Nehru Maha Vidhyalaya College of Arts and Sciences, Coimbatore		
17	Keynote address	Herbal biomedicines: a sustainable solution for aquaculture industry	Aquaculture Biotechnology (ICAB 2018), Bogor, Indonesia	International	11.10.2018
18	Invited talk	Herbal medicines in aquaculture Industry	Bogor Agriculture University, Indonesia	International	12.10.2018
19	Invited Talk	Alternative medication in Aquaculture” General Course, Bogor agriculture University, Indonesia	Bogor Agriculture University, Indonesia	International	13.10.2018
20	Invited Talk	Marine natural products and their health benefits	National seminar on Bioprospecting of Bioresources from marine resources, Rani Anna College, Tirunelveli	National	8.3.2019
21	Invited Talk	Marine biodiversity threats and conservation	Current Scenario of Biotechnology towards healthcare and environment, Noorul Islam College of Arts and Sciences, Kumarakoil	National	21.8.2019
22	Invited Talk	Bio-prospecting of marine resources and their health importance	National Symposium on Bioprospecting from marine resources for biotechnological applications:	National	25.8.2019

			Opportunities and Challenges		
23	Invited talk	மீன் வளம்	Green Agri Club, St. Jerome College of Arts & Science, Ananthanadar Kudy	National	03.09.2019
24	Invited Talk	Bio-prospecting of marine algal natural products and their importance	National Conference on Emerging Trends in Algae (NCETA-2019), St. Xavier's College, Tirunelveli	National	29.11.2019
25	Invited Talk	Bio-prospecting of marine natural products and their health benefits	BIOGEN-2019, Sree Sankara College, Kalady, Kerala	National	13.12.2019
26	Invited Talk	Alternative medications in aquatic health management	Department of Zoology, N.M.C. College, Marthandam	National	19.12.2019
27	Invited Talk	Biotechnological approaches in aquatic animal health management for improved aquaculture production	Advances in molecular technology for enhancing fish production	National	20.1.2020
28	Invited Talk	Marine bio-prospecting	National seminar on New Horizon in Animal Science, Sri Meenakshi College, Madurai, February 25, 2020.	National	25.1.2020
29	Invited Talk	Marine pollution threats and biodiversity conservation	Ayya Nadar Janaki Ammal College, Sivakasi	National	13.2.2020
30	Resource Person	Alternative medications in shrimp health management for	Recent biotechnological innovation in aquaculture	International	28.2.2020

		improved production	(RBIA), (LIVE AQUA 2020)		
31	Resource Person	Alternative medications in shrimp health management for improved production	Webinar on Advances in aquatic animal health management organized by Dr. MGR Fisheries college & Research Institute, Ponneri	International	27.7.2020
32	Resource Person	Bio-prospecting of marine algal natural products and their benefits	Holy cross college, Nagercoil	National	01.09.2020
33	Resource Person	Marine Bioprospecting	Holy cross college, Trichy	International	6.10.2020
34	Resource Person	Advanced in Microbial Sciences	“10 days state level student development programme on “ADVANCES IN Microbial Genetics” SNMV College, Coimbatore	National	5.12.2020
35	Resource Person	Current Trends in Marine Biotechnology	Refresher course on Recent Trends in Life Sciences at Madurai Kamaraj University, Madurai	National	22.12.2020

Training:

1. ICAR sponsored Winter School on Genome and Protein-based Techniques in Aquatic Animal Health Management at Central Institute of Fisheries Education, Mumbai during 2-21 February, 2009.
2. EMBO World Practical Course on DNA Microarray Analysis and Applications” dated on 16 to 20 August 2009 at CMST, Rajakkamangalam.

3. Theoretical and practical course “Gemini virus Genome and its Impact on RNAi” at ICGEB, New Delhi dated on 9 to 21 November 2009.
4. NAIP sponsored “Training Course in ‘Molecular Diagnostics and Fingerprinting of *Salmonella* and Pathogenic Vibrios Associated with Seafood and Aquatic Environments, at Central Institute of Fisheries Technology, Cochin-29 during February 2011.
5. DST sponsored “DNA Barcoding of Fish and Marine Life – Molecular Analysis & Bioinformatics Approaches” (FISHCODE – 2012) at Bharathidasan University, Trichy during 12-14, September, 2012.
6. National Level workshop on Regeneration & Stem Cell Biology (RESEB 2013), at Department of Biotechnology, Alwarkuruchi, M. S. University, from 20 to 23rd February 2013.
7. National Training on Marine Fish Parasites and Diseases”, at CAS in Marine Biology, Annamalai University, Parangipettai from 10 to 11th March, 2014
8. DBT sponsored workshop on next generation sequencing data analysis at Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli from 28 to 30 January, 2016-
9. DBT sponsored workshop on Hands on Training on Fish Cell Culture Techniques” to be held at AAHL, C.Abdul Hakeem College, Melvisharam, 11.09.2017 to 16.09.2017

Research Projects:

1. Development of suitable herbal medicinal products to replace antibiotics in the shrimp aquaculture industry, Department of Science and Technology, Government of India, 11.4 lakhs (2006-2009).
2. Developing of antiviral and immunostimulant drugs from medicinal plants against the shrimp white spot syndrome virus (WSSV) for cultivable shrimp species, UGC Major Project, 10.86 lakhs (2010-2013).
3. Development of antimicrobial products from plants and microalgae for treating shrimp bacterial pathogen and to overcome the drug resistant created by conventional antibiotics; Total amount 12.86 lakhs (2010-2013).

4. Isolation and characterization of bioactive compounds from the marine bacteria associated with the molluscs of Kanaykumari Coast, UGC, New Delhi, 10.31 lakhs (2010-2013).
5. Post Graduate Diploma in planktonology-UGC Innovative Course, UGC, New Delhi, 45 lakhs (2012-2017).
6. Characterization and production of pharmacologically important biosurfactants from halophilic microbes” (SR/S0/HS/0161/2012 dtd 01/ 7/2013), Department of Science and Technology, Ministry of Science and Technology, New Delhi, 10.44 lakhs (2014-2017).
7. Purification and structural characterization of novel molecules antagonistic to the superbug methicillin resistant *Staphylococcus aureus*, Department of Science and Technology, Ministry of Science and Technology, New Delhi, 35 lakhs (2014-2017).
8. Consultancy project entitled “Efficacy of some gut function modulators in preventing white feces diseases in *Litopenaeus vannamei*”, sponsored by Ayurvet ltd, Baddi, UP for Rs. 80,000/- (2019-20)

Professional Affiliation:

Members in Board of Studies:

Member in the PG and Research Board of Studies at Manonmaniam Sundaranar University, Tirunelveli; Madurai; Alagappa University, Karaikudi; Periyar University, Salem; Anna University, Tiruchy; Bharathiar University, Coimbatore; Madras University, Chennai and Udaya Engineering College, Vellamadi.

Members in Professional bodies:

Asian Fisheries Society, Philippines; CLSI, USA; NMR society, Bangalore; Aquaculture Hub; World Academy of Science Engineering and Technology (WASET), Turkey and Marine Biotechnology Association (USA)

Peer Reviewer of Journals:

Aquaculture nutrition (Blackwell Science); Methods and Findings in Experimental & Clinical Pharmacology (Prous Science); Fish and Shellfish Immunology (Elsevier Science); Aquaculture Research (Wiley Inter Science); African Journal of Microbiology Research

(Academic Journals, South Africa); Journal of Medicinal Plant Research (Academic Journals, South Africa); Indian Journal of Science and Technology, Chennai, India; Bioresource technology (Elsevier); Aquaculture (Elsevier); World aquaculture Society (Wiley Inter science); Academic Journals; Extremophiles (Springer); Marine Genomics (Springer); Aquaculture Research (Wiley Inter science); Saline System; PLOS one and Disease in Aquatic Organism (Inter Research), Asian Fisheries Science, Philippines, Bioresource Technology, International Journal of Aquatic Research, Journal of Microbiological Research, BMC Complementary and Alternative Medicine, Journal of Basic and Applied Zoology, Process Biochemistry and Journal of World aquaculture Society

Peer Reviewer of Research projects:

1. Council of Scientific and Industrial Research (CSIR), Human Resource Development Group, PUSA, New Delhi – 110012
2. National Foundation for Science and Technology Development (NAFOSTED), Vietnam
3. The Research Council, Al-Athaiba Muscat, Sultanate of Oman
4. Ministry of Earth Sciences (MoES), Government of India

Editorial Board

1. Technical Editor in the journal of Current Research in Biotechnology (Science Alert)
2. Technical Editor in the journal of International Journal of Virology (ISSN: 1816-4900) (Science Alert)
3. International Scientific Committee and Editorial Review Board on Marine and Atmospheric Sciences, World Academy of Science, Engineering and Technology
4. Editorial board member in Marine and Atmospheric Sciences, World Academy of Sciences, Engineering and Technology
5. Editorial board member in International Journal of Bacteriology, (Science Alert)

Co-Coordinator

As a Co-Coordinator in P.G Diploma in Planktonology (Sponsored by UGC, New Delhi) at Centre for Marine Science and Technology, Rajakkamangalam, Manonmaniam Sundaranar University.

Chair Person

1. Act as a Session Chair in International Conference on Aquatic Sciences and Fisheries, World Academy of Science, Engineering and Technology to be held on Apr 03-04, 2015, in Los Angeles, USA.
2. Act as a Rapporteur biology session at 9th NABS National Conference on New Biological Researchers, School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai , August 11-12, 2016.
3. Act as Session Chair in Satellite Symposium on Biotechnology at Malankara Catholic College, Mariagiri, Kaliakkavilai on 23-9-2016 as a part of the International Conference ENFOSE-16.

Academic Collaboration

Chinese academy of Sciences, China; Department of Biotechnology, Anna University, Tiruchy; School of Biotechnology, Madurai Kamaraj University, Madurai and Institute of Microbial Technology (IMTECH), Chandigarh

Doctoral Committee member

- ❖ Department of Animal sciences, Bharathiyar University, Coimbatore
- ❖ Department of Zoology, Madras university, Chennai
- ❖ Department of Biotechnology, Udaya Engineering College
- ❖ Department of Biotechnology Anna University, Trichy
- ❖ University of Calicut, Calicut, Kerala
- ❖ Sathyabhama University, Chennai

Members in International bodies

- ❖ International Scientific committee member in ICABEL 2016 : 18th International Conference on Aquatic Biodiversity, Ecosystems and Life sciences, Bangkok, Thailand December 12 - 13, 2016

Environmental awareness programme

Organized a Coastal Clean-up programme at Rajakkamangalam beach on 6/6/2016 on behalf of the World Environment Day and cleaned plastic and polythene wastes at least 60 kgs with school students and research scholars.

National Invitee

Invited as a national expert invitee for the Department of Biotechnology (DBT) organized “Brainstorming Session on White Spot Syndrome Virus (WSSV) / Enterocytozoon hepatopenaei (EHP) held on 5th August, 2016 at Agharkar Research Institute (ARI), Pune.

Citations

Google Scholar [https://scholar.google.co.in/citations?user=DQx_qucAAAAJ&hl=en&authuser=1]

Citations : 3088

***h*-index : 23**

*i*10-index : 48

Scopus [<https://www.scopus.com/authid/detail.uri?authorId=6506703980>]

***h*-index : 17**

Citations : 1453

Top cited articles in biomed updaters: Citarasu et al (2006) *Fish and Shellfish Immunology*, 21:372-384 in **9th Place**; Yogeewaran et al. (2012) *Fish and Shellfish immunology* 32, 6: 1058-1067 in **11th Place** among the **top 25 articles** and Jenifer et al. (2015) *AMB Express*;

2015 Dec;5(1):143 in **first place** among the **top 20 articles**, in the Domain of Article 26307214, Since 2015

Abroad Visit:

- ❖ Chinese Academy of Sciences (CAS), Wuhan, China
- ❖ National Aquatic Resources Research and Development Agency (NARA), Sri Lanka
- ❖ University of Maryland Baltimore Country (UMBC), United States of America
- ❖ Asian Pacific Aquaculture Conference, Surabaya & Aquaculture Biotechnology (ICAB 2018), Bogor Indonesia

I, T. Citarasu, certify that the above curriculum vitae is current and accurate to the best of my

knowledge

Date: 04.06.2021

Place: Rajakkamangalam



T. Citarasu