**BIO SKETCH**

**Dr. T. Citarasu**

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**Honors / Fellowships:**

* **2022: Top 2 % position of World Ranking Scientist List in Fisheries/ Microbiology/ Agriculture.** <https://insights2techinfo.com/top-2-most-influential-scientists-single-year-in-2023-stanford-university-list-analysis-of-indian-researchers/>
* **2022: Senior Scientist Award** by Microbiologists Society, India at national level
* **2021: Top 2 % position of World Ranking Scientist List in Fisheries/ Microbiology/ Agriculture** <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/4>
* **2020: Top 2 % position of World Ranking Scientist List in Fisheries/ Biotechnology/ Agriculture**.<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3/files/b3e31af2-054c-4b3a-b9c5-6fd9bf10557a>
* **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 Country (UMBC), Columbus Center, Baltimore, Maryland (MD), United States of America
* **2006–2009:** **Young Scientist** atCentre 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**](http://www.scopus.com/authid/detail.url?authorId=6506703980)

Google Scholar ID : [**DQx\_qucAAAAJ&hl=en**](https://scholar.google.com/citations?user=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**](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, Northen 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 breading 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 electrophrosis, western blot analysis polyclonal antibody and ELISA, polyclonal antibody production, Bcateriophage 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 : 80** (Completed); **0** (Ongoing)

**Publications:**

**Journals: 109** [h-index: 30 (Google Scholar); 22 (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, *Aquacuture* 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, probionts and biomedicines through bioencapsulated *Artemia* to enhance the growth, survival and reduce the pathogenesity 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, Mariavincent 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, Mariavincent 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. Citarsu**, 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 hyrophila* isolated from infected gold fish *Carassius auratus,* Bangladesh Journal of Microbiology, 28: 2: 70-75
20. Subramanian Velmurugan, Vijayaragavan Thangaviji, Mariavincent 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, Mariavincent 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.
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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 it’s *in vivo* antiviral influence on Indian White shrimp *Fenneropenaeus indicus* against WSSV infection, Journal of King Saud University –Science 25:181-90.

# 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

1. 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
2. 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
3. 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.
4. 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
5. Anusha, P., V. Thangaviji, S. Velmurugan, M. Michael Babu and **T. Citarasu**, 2014, Protection of Ornamentel Gold fish *Carrasius auratus* against *Aeromonas hydrophila* by treating *Ixora coccinea* active principles, Fish and Shellfish Immunology 36: 485-493.
6. 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
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1. 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
2. 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
3. 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.
4. 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
5. 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
6. 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
7. **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.
8. 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
9. 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
10. Albin Dhas, S., T. Selvaraj, **T. Citarasu**, S. Mary Josephine Punitha and  M. Michael Babu, 2015. Effect of supplemented diet with maturation plant extract onreproductive performance of *Etroplus suratansis,* *Aquaculture Reports* 2:58-62
11. 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
12. 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
13. 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
14. 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
15. 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
16. Iyaswamy, A., A. Kammella, **T. Citarasu**, W. Wankupar, W. Dapkupar, S. Shanmugam, R. Rajan, S. Rathinasamy, 2018, 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
17. 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
18. 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
19. **Citarasu, T**. 2018. Marine Biodiversity Threats and Conservation, Examines Mar Biol Oceanogr. 1(3):1-2
20. 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.
21. 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
22. **Citarasu, T**, C. Lelin, E. Thirumalaikumar, M. Michael Babu, V.N. Vakharia, 2019 *Macrobrachium rosenbergii* nodavirus (*Mr*NV)-CP-RNA-2 DNA vaccine confers protective immunity in giant freshwater prawn *Macrobrachium rosenbergii* against *Mr*NV infection, Fish and Shellfish Immunology 86: 319–326 (Accepted December 2018) https://doi.org/10.1016/j.fsi.2018.11.049
23. **Citarasu, T**, C. Lelin, A. Arul Nathan, S. B. Anand, M. Michael Babu, V.N. Vakharia, 2019Oral vaccination of *Macrobrachium rosenbergii* with baculovirus-expressed *M. rosenbergii* nodavirus (*Mr*NV) capsid protein induces protective immunity against *Mr*NV challenge, Fish and Shellfish Immunology 86 1123–1129 (Accepted on December, 27 2018)
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26. 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
27. 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
28. 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
29. Thirumalaikumar, E., C. Lelin, R. Sathishkumar, S. Vimal, S. B. Anand, M. M. Babu, **T. Citarasu, 2021.**  Oral delivery of pVAX-OMP and pVAX-*hly* DNA vaccine using chitosan-tripolyphosphate (Cs-TPP) nanoparticles in Rohu, (*Labeo rohita*) for protection against *Aeromonas hydrophila* infection, Fish and Shellfish Immunology 115: 189–197
30. Sathishkumar, R., E. Thirumalaikumar, M. V. Rajeswari, J. Arun, S. Vimal, M. Michael Babu, **T. Citarasu,** 2021. Extraction, statistical optimization, and immunomodulatory activity of exopolysaccharide from seaweed-associated *Bacillus megaterium* DSKPDF CMST3, Biomass Conversion and Biorefinery (Accepted) <https://doi.org/10.1007/s13399-021-02180-8>.
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33. Wahjuningrum, D., Hariati, S., Yuhana, M., Effendi, I., Citarasu, T., Utami, D.A.S., Tarman, K., 2022. Low dose of *Nodulisporium* sp. KT29 metabolite promotes production performance and innate immunity of Pacific white leg shrimp (*Litopenaeus vannamei*) against co-infection of white spot syndrome virus and *Vibrio harveyi*. Aquacult Int. <https://doi.org/10.1007/s10499-022-00924-5>
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35. Citarasu, T., Babu, M.M., Yilmaz, E. 2022. Alternative medications in shrimp health management for improved production, Aquaculture (In Press) <https://doi.org/10.1016/j.aquaculture.2022.738695>

## Jeraldin Nisha, S, Uma, G, Samuel Gnana Prakash, V, Sathish Kumar, R, Citarasu, T. 2023 Statistical optimization of media components for antibiotic production in Streptomyces Sp. CMSTAAHAL-3, [Electronic Journal of Biotechnology](https://www.sciencedirect.com/journal/electronic-journal-of-biotechnology) (In Press) <https://doi.org/10.1016/j.ejbt.2023.03.005>

**National**

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11. Albin Dhas, S., V.S. Vanitha, S.M. J. Punitha, M. M. Babu, V. Thangaviji and **T. Citarasu,** 2009, Enhancement of disease resistance in Indian white shrimp *Fenneropenaeus indicus* after dietary intake of herbal active principles against *Vibrio harveyi* infection, conference on recent advances in applied zoology” which is held on 30th and 31st march organized by Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu.
12. Kumaran, T., K. Venkatramalingam, S.M. J. Punitha, M. M. Babu, S. Velmurugan, V. Thangaviji and **T. Citarasu**, 2009. Delivery of Indian herbal Antiviral and Immunostimulant active principles against White Spot Syndrome Virus (WSSV) in *Penaeus monodon* , conference on recent advances in applied zoology” which is held on 30th and 31st march. Organised by Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu.
13. Alfred Dhas, K., K. Remya, S.M.J. Punitha, M.M. Babu, T. Selvaraj, C. Velmurugan and **T. Citarasu**, 2009. Studies on the virulence factors of *Vibrio* *harveyi* isolated from different shrimp farms of Tamilnadu, Conference on recent advances in applied zoology- during 30th and 31st March. Organised by Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi, Tamil Nadu.
14. Kumaran, T., V. Thanga Viji, D.N. Alwyn, M.M. Babu, S.M.J. Punitha, T. Selvaraj, S. Albin and **T. Citarasu**, 2009. Influence of selected antiviral herbal active principles against shrimp white spot syndrome virus (WSSV), State level seminar on Recent Trends in Aquaculture, during 11th September. Organized by Department of advanced Zoology and Biotechnology, Lekshmipuram College of Arts & Science, Neyyoor.
15. **Citarasu**, **T.,** M.M. Babu, S.M.J. Punitha and T. Selvaraj, 2010. Herbal Biomedicines- A growing opportunities, Tamil Science Conference, 10th Conference, Manonmaniam Sundaranar University, May 21-23, Tirunelveli, Tamilnadu (In : Tamil)
16. Raman, K., B.S. Donio, V. Thanga Viji and **T. Citarasu**, 2010. Genomic identification of probiotic *Bacillus cereus* isolated from coconut retting and solar salt work, National Conference on Biotechnological Approaches for Sustainable Environment, which is held on 6th and 7th August.
17. **Citarasu, T.,** V. Thanga Viji, S. Velmurugan, J. Bridilla Selva Donio and M. Michael Babu, 2010. Developing new water probiotics from coconut retting effluents for shrimp Aquaculture industry, National Symposium on Recent developments in Environmental Science and Technology, which is held on 19th and 20th August.
18. Adlin Jenifer, J., T. Kumaran, F. Bindhu, T. Selvaraj, S.M.J. Punitha and **T. Citarasu,** 2010.Synergistic effect of vaccination with immunostimulation to enhance the resistance in *Penaeus monodon* against white spot syndrome virus, National Symposium on Recent developments in Environmental Science and Technology, which is held on 19th and 20th August.
19. Velmurugan. S., M. Michael Babu, T. Selvaraj, S. Albindhass, and **T. Citarasu,** 2010. Control of White Spot Syndrome Virus using herbal active compounds, National Conference on Science Tamil, held on 07th and 08th October. (In Tamil), Kanyamumari.
20. Thanga Viji, V., M. Birdilla Selva Donio, T. Selvaraj and **T. Citarasu,** 2010. Protection of Gold Fish from A, hydrophila using probiotic *Bacillus* sp. National Conference on Science Tamil, which is held on 07th and 08th October. (In: Tamil), Kanyamumari.
21. Birdilla Selva Donio, M., V. Thanga Viji, S. Velmurugan, T. Selvaraj and **T. Citarasu,** 2010. Control of shrimp pathogenic vibrios by halophilic organisms. National Conference on Science Tamil, which is held on 07th and 08th October. (In: Tamil), Kanyamumari.
22. T. Kumaran,S. M. J. Punitha and **T. Citarasu,** 2010. Chicken Egg Yolk Antibodies (IgY): A Review of Progress in Production and Use Aquaculture. National Conference on Science Tamil, which is held on 07th and 08th October. (In: Tamil), Kanyamumari..
23. Adlin Jenifer, J., P. Bindhu, M. Michael Babu, T. Selvaraj and **T. Citarasu,** 2010. Marine Actinomycetes: Prevents disease of fish and human life. National Conference on Science Tamil, which is held on 07th and 08th October (In: Tamil), Kanyamumari.
24. Narmatha, K and **T. Citarasu,** 2010. Role of Marine Biotechnology in improvement & uses of extremophiles. National Conference on Science Tamil, which is held on 07th and 08th October (In: Tamil), Kanyamumari.
25. Blessy, J., M. Michael Babu, C. Prithvi, Selvaraj, **Citarasu,** Mary Josephine Punitha, Sankar and S. Albindhas, 2010. Production of Carotenoids from Micro algae. National Conference on Science Tamil, which is held on 07th and 08th October (In: Tamil), Kanyamumari.
26. **Citarasu**, **T.,** M.M. Babu, S.M.J. Punitha and T. Selvaraj, 2010. Herbal Biomedicines- A growing opportunities, Tamil Science Conference, 10th Conference, Manonmaniam Sundaranar University, May 21-23, Tirunelveli,Tamilnadu (In : Tamil).
27. Velmurugan, S., G. Vijayabala, V. Thangaviji, M. Michael Babu and **T. Citarasu,** 2010. Isolation and identification of antagonistic microbes ffrom Muttom rocky shore against fish pathogenic bacteria, Symposium on Indian Ocean marine living resources, held on 2nd and 3rd December, Cochin.
28. Kumaran, T., *A*. Jenista Mary, F. Bindhu, M. Michael Babu and **T. Citarasu**, 2012. Physicochemical and Immunological Properties of Anti-*Vibrio parahaemolyticus* IgY Developed from *Gallus domesticus* Egg Yolk, National seminar on Bio-Knowledge for better Environment” at Syed Hameedha Arts and Science College, Kilakarai, Ramanathapuram on 28-29th February 2012.
29. Velmurugan S.,K. Raman, V. Thanga Viji, M. B.S. Donio, J. Adlin Jenifer and **T. Citarasu**, 2012. Antiviral activity of *Halomonas salifodinae* secondary metabolites against shrimp White Spot Syndrome Virus (WSSV). National seminar on Bio-Knowledge for better Environment” at Syed Hameedha Arts and Science College, Kilakarai, Ramanathapuram on 28-29th February 2012
30. Citarasu, T., V. Thanga Viji, S. Velmurugan, T. Kumaran and M. Michael Babu, 2012. Vaccination approach to protecting gold fish *Carassius auratus* against *Aeromonas hydrophila* infection, National conference on conservation and management of faunal resources for sustainability (CMFRS), at Guru Nanak College, Chennai- 42 from 03 to 05th October, 2012
31. Velmurugan, S., V. Thanga Viji, M.B.S. Doino, J. A. Jenifer M. Michael Babu and **T. Citarasu**, 2014. Protection of *Penaeus monodon* against WSSV infection by treating with marine microbial secondary metabolites, seminar on marine fish parasites and diseases,10th & 11th, March, 2014.
32. Velmurugan, S., S. Francisco, M. B.S. Donio, M. Michael Babu and **T. Citarasu**, 2014. Antibacterial and immunostimulant influence of nut grass *Cyperus rotundus* extract on *Fenneropenaeus indicus* against pathogenic *Enterococcus* sp challenge, Alagappa University.
33. Kumaran, T., C. Lelin, S. Geethu, M. Michaelbabuand **T. Citarasu,** 2016. Production of anti *Vibrio harveyi* yolk immunoglobulin (IgY) using herbal immunoadjuvant *Asparagus racemosus* and its immunological influence in *Penaeus monodon* against *Vibrio harveyi* infection, 9th NABS National Conference on New Biological Researchers, School of Energy, Environment and Natural Resources, Madurai Kamaraj University, Madurai , August 11-12, 2016.
34. Shanila, T.R., C. Lelin, E. Thirumalaikumar, J. A. Jenifer, M. Michaelbabu and **T. Citarasu**, 2016, Antimicrobial influence and characterization of NRPS gene from *Streptomyces* sp. SJ4 isolated from Arabian coastal line, National conference on Recent Trends in Biotechnology (Bio-Trends-2016), National Institute of Ocean Technology, October 19-21,2016.
35. Kumaran, T and **T. Citarasu**, 2017, Production and potential application of egg yolk antibodies (IgY) as therapeutic agents in aquaculture, International conference on aquatic health and parasitic diseases, CAS in Marine Biology, Annamalai University, Chidambaram
36. **Citarasu, T**., S. Velmurugan., E. Thirumalaikumar, A. P.S. Abinaya., S. Jeraldin Nisha and M. MIchaelbabu, 2017. Protection of *Fenneropenaeus indicus* against White Spot Syndrome Virus by delivering partially purified antiviral compounds extracted from *Chlorella* sp , National conference on biodiversity conservation and coastal management, August 10& 12th 2017, Vivekanada College, Agasteeswaram, Kanyakumari
37. Michaelbabu, M., T. Citarasu, T., T. Praba., P. Gopal., C. Ajan, S. Sonia, 2017. A study on the reasons for the appearance and disappearance of Artemia populations in the salt pans. National conference on biodiversity conservation and coastal management, August 10& 12th 2017, Vivekanada College, Agasteeswaram, Kanyakumari
38. Michaelbabu, M., T. Citarasu, T., G. Subilal., M. Shyni, A. Enilda Rexy and M. Anithavani 2017. A preliminary study on possibilities of culturing a zooplanktonFabrea salina in confined culture system. National conference on biodiversity conservation and coastal management, August 10& 12th 2017, Vivekanada College, Agasteeswaram, Kanyakumari
39. **Citarasu, T.,** 2018. Marine Conservation: In: Macrobiotic: The future of Farming (Green Club), NI college, Kumarakoil, 8-9th August, 2018
40. Lazarus. S., A. Renu, **T. Citarasu,** S. Balasubramanian, 2019 Marine Polychaetes of Tamilnadu, National conference on future trends in marine biotechnology (FTMBT2019), February 14&15, Organized by Centre for Marine Science and Technology, Manonmaniam Sundaranar University
41. Abinaya, A.P.S, **T. Citarasu,** G. Uma, M.A. Akhila, 2019**.**xylanase activity of halophilic bacteria isolated from Swamithopu solar salt works, Xylanase…..Salt Works” National conference on future trends in marine biotechnology (FTMBT2019), February 14&15, Organized by Centre for Marine Science and Technology, Manonmaniam Sundaranar University
42. Enilda Rexy, A., M. Michael Babu and **T. Citarasu,** 2019. . Diversity of microalgae in the saltpan of Puthalam, Kanyakumari District, National conference on future trends in marine biotechnology (FTMBT2019), February 14&15, Organized by Centre for Marine Science and Technology, Manonmaniam Sundaranar University
43. Muthukumar, C. , M. Anitha Vani,M. Michael Babu, **T. Citarasu**, R. Anantha Rajan, 2019**,** Purification, partial characterization and antibacterial activity of lectin from *Charybdis cruciata,* National conference on future trends in marine biotechnology (FTMBT2019), February 14&15, Organized by Centre for Marine Science and Technology, Manonmaniam Sundaranar University
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
51. Balasubramanian, S., Lazarus, S., Renu, A., **Citarasu, T., 2022.** Marine Polychaetes of Rajakkamangalam backwater, South West Coast of India.National conference on Ecosystem restoration and sustainable development , Indian Congress association Chennai Chapter at Vivekananda College, Kanyakumari, 12-14 March, 2022
52. Jeraldin Nisha, S., Uma, G., Samuel Gnana Prakash, V., Michael Babu, M., **Citarasu, T.** Isolation and characterization of antibacterial secondary metabolites producing actinomycetes from Mangrove ecosystem of Kanyakumari District, National conference on Ecosystem restoration and sustainable development , Indian Congress association Chennai Chapter at Vivekananda College, Kanyakumari, 12-14 March, 2022.

**Invited Talk:**

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| --- | --- | --- | --- | --- | --- |
| **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 onAquatic 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 resources” at Holy Cross College, Nagercoil | National | 2015 |
| 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 a 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-prospecting | National seminar on Modern Biological Sciences, SyMBios’17, Shri Nehru Maha Vidhyalaya College of Arts and Sciences, Coimbatore  | National  | 20.2.2017 |
| 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: Opportunities and Challenges | National  | 25.8.2019 |
| 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 improved production  | Recent biotechnological innovation in aquaculture (RBIA), (LIVE AQUA 2020) | International  | 28.2.2020 |
| 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 | Microbial Bioprospecting  | “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 |
| 36 | Keynote Speaker  | Marine natural products and health benefits | Bioprospecting of Marine Derived Metabolites for promisingbiotechnology applications: Current and future prospects(BMDM-2021) | National  | 29-31, December, 2021 |
| 37 | Resource Person  | Marine Plant Resources | UG Botany Association, Scott Christian College, Nagercoil  | National  | 23, November, 2021 |
| 38 | Resource Person  | Marine pollution threats and its impact on biodiversity  | Multidisciplinary approach on Conservation of nature for your future, Organized by William Research Foundation, Nagercoil.  | International  | 13-15 December, 2021 |
| 39 | Resource person  | Trends in Marine Science and Marine Biotechnology  | OCEANIA - 2022, International Conference on Marine Science and Aquaculture, Holy Cross College, Nagercoil | International  | March, 29,2022 |
| 40  | Resource person  | Marine Bioprospecting  | A two day national level workshop on “bioplastics – a sustainable way for the creation of biodegradable polymers from unutilized abundant marine raw materials in an eco-friendly approach” Mahendra College of Engineering, Salem, Tamilnadu. | National  | 28-29, April 2022 |
| 41 | Resource Person  | Impact of pollution threats in marine biodiversity  | National conference on Ecosystem restoration and sustainable development , Indian CCogress association Chennai Chapter at Vivekananda College, Kanyakumari  | National  | 12-14 March, 2022 |
| 42 | Resource Person  | Trends in Marine Microbiology  | Microbiology Association @ Scott Christian College, Nagercoil | National  | 21.04.2022 |
| 43 | Resource Person  | Trends in marine science and marine biotechnology | Inspire Programme , NI University, Kumarakoil , Kanyakumari District  | National  | 27.05.2022 |
| 44 | Resource Person  | Impact of pollution threats in marine biodiversity | Microbiology Association @ Sivandhi Adithanar College, Nagercoil | National  | 16.05.2022 |
| 45 | Resource Person  | Marine Natural Products  | Biotechnology Association, Malankara Cotholic College, Mariagiri  | National  | 05.10.2022 |
| 46 | Resource Person  | Marine Biotechnology | UGC - Human Resource Development Centre, Bharathiar University, Coimbatore | National | 12.09.2022 |
| 47 | Resource Person | Marine pollution Impacts | Zoology Association, VO College, Tuticorin  | National | 16.08.2022 |
| 48 | Resource Person | Current Trends in Marine Biotechnology | ICCASH-2023, Nirmala College, Coimbatore | International  | 02.02.2023 |
| 49 | Resource Person  | Trends in Marine Biotechnology | National seminar on Emerging trends and recent advances in biological research, Kuriakose gregorios CollegePampady, Kottayam 686502 Kerala  | National | 15.03.2023 |
| 50 | Resource Person | Impact of Marine Pollution and Biodiversity threats  | UG Zoology Association, WC Christian College, Nagercoil  | National  | 31.07.2023 |
| 51 | Resource Person | Biotechnological approaches in aquatic animal health management for improved production | Zoology Association, Bharathiar University, Coimbatore  | National  | 07.08.2023 |
| 52 | Resource Person | Biotechnological approaches in aquatic animal health management for improved production | International Conference onEco-Restoration for Natural Resource Management(ICER - NaRM - 2023), ST Hindu College, Nagercoil | International  | 24&25th August, 2023 |

**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 bioacitive 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)
9. Consultancy project entitled “Efficacy evaluation of some phytogenics at improving growth performance, gut function and immunity in Nile Tilapia (*Oreochromis niloticus*) sponsored by Ayurvet ltd, Baddi, UP for Rs. 2,47,000/- (2021-22)

**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

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1. Technical Editor in Applied Biotechnology & Bioengineering, MedCrave Group, eISSN: 2572-8466
2. Editorial member in Progress in Applied Microbiology, Whioce Publishing Pte Ltd, 7030 Ang Mo Kio Avenue 5＃04-15，Northstar@AMK Singapore 569880, ISSN: 2630-4791
3. Scientific and Technical Committee & Editorial Review Board member on Animal and Veterinary Sciences, World Academy of Science, Engineering and Technology, International Scientific Committee PO Box 982, Riverside, Connecticut, CT 06878, USA.
4. Editorial board member in i-manager Publications, i-manager Publications, i-manager’s Journals, Scientific Journal Publisher, Scientific Journals in India
5. Associate Editor in Oceanography & Fisheries Open access Journal (OFOAJ), Juniper Publishers INC. 3700 Park View Ln #12B3700 12BIrvine, California 92612Irvine, 92612United StatesUnited States , ISSN: 2476-0536
6. Associate Editor in SCIREA Journal of Biology

### Associate Editor in Examines in Marine Biology & Oceanography, Crimson Publishers, 555 Madison Ave 5th floor, New York, NY 10022, USA, ISSN: 2578-031X

**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](http://www.aripune.org/) (ARI), Pune.

**Citations**

**Google Scholar [**[**https://scholar.google.co.in/citations?user=DQx\_qucAAAAJ&hl=en&authuser=1**](https://scholar.google.co.in/citations?user=DQx_qucAAAAJ&hl=en&authuser=1)**]**

Citations : 4209

***h*-index : 29**

*i*10-index : 57

**Scopus [**[**https://www.scopus.com/authid/detail.uri?authorId=6506703980**](https://www.scopus.com/authid/detail.uri?authorId=6506703980)**]**

***h*-index : 21**

Citations : 2077

**Top cited articles in biomed updater:** Citarasu et al (2006) *Fish and Shellfish Immunology*, 21:372-384 in **9th Place;** Yogeeswaran 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: 30.09.2023 **T. Citarasu**

Place: Rajakkamangalam