

STAFF PROFILE

- 1) Name : Dr. B. DHANALAKSHMI
2) Designation : ASSISTANT PROFESSOR
3) Department : ZOOLOGY
4) Qualification : B.Sc., M.Sc., M.Phil., Ph.D., PGDCA.,
5) Experience : Teaching :12 Research : 17
6) Area of Specialization (s) : HYDROBIOLOGY AND TOXICOLOGY
7) E-mail : dr.dhanalakshmi02@gmail.com
8) Academic Qualifications : B.Sc., M.Sc., M.Phil., Ph.D., PGDCA.,
9) Additional Qualifications:

| Diploma/ Vocational/ Certification | Area of Specialization | Institution/ University/ Agency Name | Year |
|------------------------------------|---|--------------------------------------|------|
| Diploma | Post graduate diploma in computer application | Bharathiar University | 2012 |

10) Research Guidance

| Programme | No. of Scholars | |
|-----------|-----------------|----------|
| | Completed | Pursuing |
| Ph. D. | 02 | 02 |
| M. Phil. | 04 | - |

11) Research Publications

International

1. Neenu S and **Dhanalakshmi B.** Phytochemical profiling and antimicrobial activity screening of seaweeds collected from Rameswaram sea coast, Tamil nadu, India. *International Journal of Multidisciplinary Educational Research*. 2021, 4(7):63-69.
2. S. Bharathi., S. Dinesh Kumar.,P. Santhanam.,M. Pragnya.,**B. Dhanalakshmi.** Experimental evaluation of seaweeds liquid extracts as an alternative culture medium on the growth and proximate composition of *Picochlorum maculatum*. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.* 2021, 91:205-215
3. S. Dinesh Kumar.,P. Santhanam.,M. Pragnya.,**B. Dhanalakshmi.** Growth enhancement in marine copepod, *Pseudodiaptomus annandalei* fed with the sodium acetate containing N/P starved medium grown, *Tetraselmis suecica*. *Aquaculture Research*. 2021, 52(9):4154-4165.

4. Ilakkiya V., **Dhanalakshmi B** and Kaviya V. Comparative study of antioxidant activity and phytochemical characterization *Inportula caoleracea* and *Portulaca grandiflora*. *International Journal of Recent Scientific Research*. 2021,12(04(B)):41490-41495.
5. Reshma, R., S. Dinesh Kumar, P. Santhanam, P. Perumal, , M. Pragnya, R. Arthikha, **B. Dhanalakshmi** and Mi-Kyung Kim. Enhancement of pigments production in the green microalga *Dunaliella salina* (PSBDU05) under optimized culture condition. *Bioresource Technology Reports*, 2021, 14 pp. 100672.
6. Maria Puspham Grace.M ., Rajithra R.,V.Ilakkiya.,**Dr.B.Dhanalakshmi**. Qualitative analysis of Phytochemical studies on *Sargassum wightii* and *Padina gymnospora*. *International Journal of Research and Development*, 2021, 6(5):161-175.
7. Maria Puspham Grace.M ., Rajithra R.,V.Ilakkiya.,**Dr.B.Dhanalakshmi**. Qualitative analysis of phytochemicals in selected seaweeds of Mandapam coast, Rameswaram, India. *International Journal of Research and Development*, 2021, 6(5): 144-160.
8. **B Dhanalakshmi**. (2021). Effect of different hydroponic subsystems and culture medias on the biochemical composition and growth performance of plant and fish in aquaponics system. *International Journal of Entomology Research*, 2021,6(4):29-35.
9. P. Priyatharsini, **B. Dhanalakshmi**, S. Dinesh Kumar, P. Santhanam and M. Pragnya. Biodiversity of phytoplankton in Theroor wetland ecosystem, Kanyakumari, India. *World Journal of Pharmaceutical and Medical Research*, 2021, 12(65):29682-29693.
10. Athira V. N., **B. Dhanalakshmi**, S. Dinesh Kumar. A comparative study on the effect of green preservatives to increase the shelf life of commercially important fish fillet in frozen condition. *Int. J. Pharm. Sci. Rev. Res.*, 2020, 62(1): 133-137
11. Rini T.R., **B. Dhanalakshmi**, S. Dinesh Kumar. Human Health Risk Assessment of accumulation of Heavy Metals via Consumption of Marine Fish Collected from Local Vendors of Palakkad District, Kerala, India. *International Journal of Pharmaceutical Sciences Review and Research.*, 2020, 62(1):153-159.
12. Priyatharsini, P., S. Sivashankari, **B. Dhanalakshmi**, S. Dinesh Kumar, P. Santhanam,M. Pragnya. The Systematic Approach of Heavy Metals Accumulation in *Oreochromis niloticus* from Theroor Wetland,Kanyakumari, India. *Environment and Ecology.*, 2020, 38 (2): 255-264.
13. Dinesh Kumar, S., Kang Sojin, P. Santhanam &**B. Dhanalakshmi**. Reciprocal response of nitrogen for enhancing growth and proximate compositions of marine microalga *Tetraselmis* sp. under low saline conditions. *Indian Journal of Geo Marine Sciences.*, 2020, 49 (02):326-332.
14. Athira, V. N.,**B. Dhanalakshmi**, S. Dinesh Kumar. Application of Green Bio-Preservatives in Extending the Shelf Life of Commercially Important Fishes *Sardinella*

longiceps and *Rastrelliger kanagartha*, *Entomology and Applied Science Letters.*, 2020,7(2):35-4.

15. Suganya, S., **B Dhanalakshmi** & S Dinesh Kumar. Biosynthesis and characterization of silver nanoparticles from *Sargassum wightii* and its antibacterial activity against multi-resistant human pathogens. *Indian Journal of Geo Marine Sciences.*, 2020, 49 (05):839-844.
16. Dinesh Kumar, S., P. Santhanam, N. Krishnaveni, P. Raju, A. Begum, S. U. Ahmed, P. Perumal, M. Pragnya, **B. Dhanalakshmi** and Mi-Kyung Kim. Baseline assessment of water quality and ecological indicators in *Penaeus vannamei* farm wastewater along the Southeast coast of India. *Marine Pollution Bulletin.*, 2020,160:111579.
17. Chitra G., **B.Dhanalakshmi**. Nutritional Quality of Commercially Important Marine Fishes *Scomberomorus guttatus* and *Cynoglossus semifasciatus*. *International Journal of Pharma and Bio Sciences*, 2020,11(4): b41-45.
18. Sheethal S., **B.Dhanalakshmi**. Biochemical composition and xenobiotic concentrations in muscle tissue of *Xenentodon cancila* (Hamilton,1822), fresh water fish of Valapattanamand Kavayi river of Kannur district, Kerala, India- A bio-monitoring approach. *Pollution Research*. 2018, 37(3):823-828.
19. Priyatharsini. P, **B. Dhanalakshmi**, and T. Veeramani. Length-weight relationship of fresh water fish Nile tilapia, *Oreochromis niloticus* in Theroor wetland, Tamil nadu, India. *Trends in Fisheries Research*. 2019, 8(1):72-79.
20. Priyatharsini P., **Dhanalakshmi B** and Veeramani T. Monitoring and assessment of water health in relation to fish perception in Theroor wetland ecosystem, Tamil Nadu, India. *International Journal of Recent Scientific Research*, 2018, 9(5(D)): 26708-26714.
21. **Dhanalakshmi B.** Assessment of microbial quality in water, sediment and fish tissue – A health concern in lotic fresh water body Ambrambalayam river, Tamil Nadu, India. *International Journal of Recent Scientific Research*, 2018, 9(7): 27751-27755.
22. Nithya, P., **B. Dhanalakshmi**, P. Santhanam., S. Dinesh Kumar. Pre-monsoon and monsoon seasonal changes in physicochemical characteristics of Chinnamuttom and Colachel harbour waters, Southeast coast of India. *Indian Journal of Geo-Marine Sciences*, 2018, 47(1):193-199.
23. **Dhanalakshmi. B.** Seasonal variation of physicochemical parameters and phytoplankton diversity in the Muthukuda mangrove environment, southeast coast of India. *Journal of the Marine Biological Association of India*, 2017, 59(2):19-33.

24. **Dhanalakshmi. B.** Assessment of seasonal changes in the water chemistry of Valappattanam and Munderi Kadavu river in Kerala, Tamil Nadu, India. *International Journal of Environmental Science, Toxicology and Food Technology*, 2017, 11(7):77-82.
25. **Dhanalakshmi. B.** Biochemical alterations induced by short- and long-term exposure of *Chromium Sulphate* on the fresh water fish *Cirrhinus mrigala* (Hamilton). *International Journal of Applied Biology and Pharmaceuticals Technology*, 2017, 8(1):49-56.
26. **Dhanalakshmi. B.** Toxicological evaluation of heavy metals in tissues of fresh water fish *Oreochromis niloticus* collected from lakes of Coimbatore district, Tamil Nadu, India. *International Research Journal of Pharmacy*, 2017, 8(1):41-45.
27. **Dhanalakshmi. B.**, Priyadharsini.P. Assessment of Theroor wetland water quality Kanyakumari district, Tamil Nadu, India. *International Journal of Advanced Research*, 2016, 4(11):1325-1330.
28. **Dhanalakshmi. B.** Antibacterial activity of Methanol extract from selected seaweed of South East coast of India. *International Journal of Applied Research*, 2016, 2(9):714-718.
29. **Dhanalakshmi. B.**, Priyadharsini.P. Water quality characteristic of Vembanoor wetland, Kanyakumari district, Tamil Nadu, India. *International Journal of Current Microbiology and Applied Sciences*, 2016, 5(8):852-861.
30. **Dhanalakshmi. B.**, Priyadharsini.P. Piscine diversity of Coimbatore wetlands, Tamil Nadu. India. *International Journal of Fisheries and Aquatic Studies*, 2016, 4(4):280-285.
31. **Dhanalakshmi. B.**, Kiruthika, K., Effects green macroalgae *Ulva fasciata* supplemented diet on biochemical composition in fresh water fish *Labeo rohita* (Hamilton). *International Journal of current research*, 2016, 8(07):33831-33835.
32. S. Dinesh Kumar, P. Santhanam, S. Ananth, M. Kaviyaran, P. Nithya, **Dhanalakshmi. B.** M. Park, Mi-Kyung Kim. Evaluation of suitability of waste water grown microalgae (*Picocchlorummaculatum*) and copepod *Othinarigida* as lived food for white leg shrimp *Litopenaeus Vannamei* post larvae. *Agriculture International*, 2016, 1-9 001 10.100 7/s:10499-016-0037-6.
33. S. Dinesh Kumar, P. Santhanam, S. Ananth, P. Nithya, **Dhanalakshmi. B.** Bioremediation of shrimp (*Litopenaeus vannamei*) culture effluent using copepod (*Othionia rigida*) and microalgae (*Picocchlorummaculatum* and *Amphara* sp)-An integrated approach. *Desalination and water treatment*, 2016, 1-10.
34. **Dhanalakshmi. B.**, Merline X., Chitra G. Estimation of amines and amine forming bacterial in edible marine fish *Sardinella longiceps* and its product. *International Journal of Recent Scientific Research*. 2015, 6(12):7936-7940.

35. **Dhanalakshmi. B.**, Priyatharsini P. An assessment of fresh water piscine diversity in selected wetlands in Coimbatore district, Tamil Nadu, India. A preliminary study. *OpenAccessLibrary Journal*.2015,2(2236):1-6.
36. Merline X., Chitra G ., **Dhanalakshmi. B.** Comparison of nutritional microbial quality of edible marine fish *Sardinella longiceps* collected from landing center and market. *International Journal of Development Research*.2015,5(10): 5674 -5676.
37. **Dhanalakshmi, B.**, G.Chitra. Microbial screening on raw and dry selected marine species from Nagapattinam district, Tamil Nadu, India. *International Journal of pharmaandbiosciences*.2015,6 (4) :818-828.
38. Vaishnavi.T., **Dhanalakshmi, B.** Chitra G. Quality attributes of fresh and dry marine edible species from Nagapattinam district, Tamilnadu, India. *International Journal of Trends in Fisheries Research*. 2015, 4(1):14-19.
39. **Dhanalakshmi, B.**, Chitra G. Biochemical changes in the fish *Cirrhinus mrigala* (Hamilton) after acute and chronic exposure of heavy metal. *International Journal of Current Research*. 2014,6(01):4362-4368.
40. N.Saradhamani, K.Sithra., **DhanalakshmiB.** Comparative study of well water in and around Kayakkody panchayat, Kozhikode, Kerala, India. *Eco. Env and Cons*. 2007,13(2):287 – 290.

National

1. Athira.A.Raveendran., **B.Dhanalakshmi.**,S. Dinesh Kumar. Morphometric analysis and Bioaccumulation of heavy metals in *Sardinella longiceps* and *Rastrelliger kanagurta* along West Coast, Kerala, India. *Science, Technology And Development Journal*. 2021,10(4):263-279.
2. Nirosha.K., **Dhanalakshmi.B.**, Suganya.S. In-vitro studies on synthesis and characterization of silver nano particle using aqueous extract of Indian brown macro alga *Turbanaria conoides*, south Indian coast, Tamilnadu, India. *Journal of Emerging Technologies and Innovative Research.*, 2019, 6(5):10-16.
3. Priyatharsini.P, Sivasankari, **B. Dhanalakshmi**. Impact of heavy metals on the tissues of fresh water fish *Oreochromis niloticus* – A systematic approach. *Journal of Emerging Technologies and Innovative Research*,2019, 6(6):734-747.
4. SoundharyaT., **B.Dhanalakshmi.**, J. Jegathesh Amalraj. Assessing the trace metal status in the sediment of Ambrampalayam river, Pollachi taluk, Tamilnadu, India. *Journal of Emerging Technologies and Innovative Research*,2019,6(6):628-632.
5. SoundharyaT., **B.Dhanalakshmi** and J. Jegathesh Amalraj. Assessing the water quality

status of Ambrampalayam river, Pollachi taluk, Tamilnadu, India with reference to trace metals. *Journal of Global Biosciences*,2019,8(6):6313-6323

6. **Dhanalakshmi, B.** Primary productivity of river Chaliyar of Calicut district, Kerala, India. *Alagappa University Journal of Biological Sciences. (AUJBS)*.2017,1(1):48-53.
7. **Dhanalakshmi, B.** Nisha.P., R.Krishnakumar. Evaluation of microbial load and their impact on spoilage of selected marine fishes collected from the catchment point and in the markets of Coimbatore districts. A preliminary study. *Indian Journal of Applied Microbiology*. 2014,17(2): 73-79.
8. **Dhanalakshmi, B.** Acute and chronic toxicity of chromium on biochemical composition of the fresh water major carp *Cirrhinus mrigala* (Hamilton). *Asian Journal of Science and Technology*.2014,4(11): 26-32
9. **Dhanalakshmi, B.** Plant diversity status in and around Singanallur lake Coimbatore, Tamil Nadu, India. *Journal of Science*. 2012,1(4):28 – 32.
10. **Dhanalakshmi, B.** Bioremediation of polluted habitat in Coimbatore using Vermitechnology. *Jr.of Industrial Pollution Control*. 2010,26(1):105 – 108.
11. **Dhanalakshmi, B.** M. Lekeshmanswamy and K. Varunprasad. Seasonal variations of the Sulur pond at Coimbatore, Tamil Nadu,India. *Nature Environment and Pollution Technology*.2008,7(1):147 – 150.
12. N. Saradhamani, R. Saraswathi.,**Dhanalakshmi B.** A study on the effect of commando on the protein content of the fresh water fish *Labeo rohita*. *Journal of Current Science*.2007,10(2):735 – 738.
13. N. Saradhamani, R. Saraswathi.,**Dhanalakshmi, B.** Effect of the detergent commando on cholesterol content of the fresh water fish *Labeo rohita*.*Nature Environment and Pollution Technology*. 2007,6(3):433 – 436.

12) Other Publications

1. Nutritional value of *Rastrelliger kanagurta* and *Stolephorus commersonii* collected from west coast landing centre, Kerala, India. Challenges to Environmental and Health, organized by Jamal Mohamed College, Trichy. 2020, ISBN No: 978-81-944322-5-8.
2. Dhanalakshmi .B Zooplankton diversity of Singanallur wetland of Coimbatore district, Tamilnadu, India. *Nirmala Annual Research Congress*.2019. 978-93-5321-859-1
3. Dhanalakshmi .B Biomonitoring of selected aquatic macrophyte to assess lentic water body nutrient contamination: A case study of Vallekulam lake, Kerala. *Nirmala Annual Research Congress*. 2017,3:62-65.

4. Dhanalakshmi .B .Effect of Macroalgae formulated diet on the growth of performance of fresh water cultivable fish *Labeo rohita*. *Book of Abstracts - Perspectives and Prospects in Aquatic Research, National conference on Perspectives and Prospects in Aquatic Research*. 2016. 978-93-5212-681-1
5. Dhanalakshmi .B . *Eucheuma cottonii* and *Eucheuma denticulatum*: algae that can Biofilter effluent. *Book of Abstracts - Perspectives and Prospects in Aquatic Research, National conference on Perspectives and Prospects in Aquatic Research*. 2016. 978-93-5212-681-1
6. Dhanalakshmi. B. Enumeration and isolation of bacterial microflora in the fish organs.2016 *IQAC Nirmala Annual Research Congress*.
7. Dhanalakshmi. B., Vaishnavi T. Assessment of ground water quality in and around Taluks of Tirupur district, Tamil Nadu, India. *Nirmala Annual Research Congress*.2013, 1(1):58 – 61.
8. Dhanalakshmi. B., Merline.X. Effect of dietary administration *Eucheuma cottonii* on growth performance in fresh water teleost *Labeo rohita* (Hamilton,1822). *Nirmala Annual Research Congress*, 2013,1(1): 68 -71.
9. Dhanalakshmi. B., Priyadharsini.P. Short – term effect of Vichoor lake water on the biochemical parameter of fresh water fish *Cirrhinus mirgala* (Ham).*Nirmala Annual Research Congress*, 2013,1 (1): 312 – 314.
10. Dhanalakshmi. B., Maheswari.D. Physicochemical and microbiological study of Kelavarappalli dam, Krishnagiri District, Tamil Nadu. *Nirmala Annual Research Congress*,2013,1(1): 291 – 293.
11. Dhanalakshmi. B., Nithya.P. Structure prediction of Cytochrome B oxidase in five different Whitefly species. *Nirmala Annual Research Congress*,2013,1 (1):1-6.
12. Dhanalakshmi. B., 25th& 26th August, 2011 - Challenging and strategies in human rights education,organized by Nirmala College for Women, Coimbatore-18.

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| 13) Participation in Conference | : 02 |
| 14) Participation in Seminar | : 12 |
| 15) Participation in Workshop | : 10 |
| 16) Participation in Training | : 03 |

17) Participation in Orientation Programme/ Induction Programme/ Short term Courses

- Orientation Program – 17.11.2017 – 14.12.2017 - Bharathiar University, Coimbatore
- Refresher Course – 18.11.2020 – 01.12.2020 - Madras University, Chennai

18) Participation in Faculty Development Programme: 08

19) Conference/ Seminar/ Workshop Organized

- Conference Organized : 02
- Seminar Organized : 08
- Workshop Organized : 29
- Symposium : 03
- International symposium : 03
- Training Program : 08
- Popular lecture series : 01

20) Editorial/ Review Board Member

- International Journal of Pharma and Bio Sciences
- World Journal of Pharmaceutical Sciences
- International Journal of Life Science and Pharma Research
- BIOCELL
- International Journal of Humanities Sciences

21) Conference/ Seminar/ Workshop Organized

- Conference organized: 1
- Seminar organized: 8
- Workshop Organized: 27

22) Editorial/ Review Board Member

- Reviewer of International Journal of Pharma and Biosciences
- Reviewer of World Journal of Pharmaceutical Sciences
- Reviewer of International Journal of Life Science and Pharma Research
- Reviewer of BIOCELL
- Reviewer of International Journal of Humanities Sciences