



**Dr. R. THIRUMURUGAN**  
**REGISTRAR, CENTRAL UNIVERSITY OF TAMIL NADU**

**Contact**

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**Academic Qualifications: M.Sc.,Ph.D.**

**2000**

**Doctor of Philosophy in Zoology**

Bharathidasan University, Tiruchirappalli, Tamil Nadu.

**1995**

**Diploma in Industrial Pollution and Control**

Annamalai University, Chidambaram, Tamil Nadu.

**1994**

**Master of Science in Zoology**

Annamalai University, Chidambaram, Tamil Nadu.

## Teaching Experience: 22 Years

- 2014 – Till date     **Professor**, Department of Animal Science, School of Life Sciences, Bharathidasan University, Tiruchirappalli – 620 024
- 2011 – 2014         **Associate Professor**, Department of Animal Science, School of Life Sciences, Bharathidasan University, Tiruchirappalli – 620 024
- 2007 – 2011         **Assistant Professor**, Department of Zoology, The Madura College (Autonomous), Madurai – 625 011
- 2003 – 2007         **Lecturer**, Department of Zoology & Microbiology, Thiagarajar College (Autonomous), Madurai – 625 009
- 2000 – 2003         **Lecturer**, Department of Biotechnology, Ponnaiyah Ramajayam College, Thanjavur – 614 904

## Research Experience: 27 Years

### Administrative Responsibilities

1. **Registrar, Central University of Tamil Nadu**, Thiruvarur, from 06<sup>th</sup> July 2023 till date.
2. Head, Department of Animal Science, Bharathidasan University, Tiruchirappalli - 620 024 from 06<sup>th</sup> January 2021 to 05 July 2023.
3. Head (i/c), Department of Animal Science, Bharathidasan University, Tiruchirappalli - 620 024 from 03<sup>rd</sup> January 2020 to 02<sup>nd</sup> July 2020.
4. Deputy Co-ordinator, UGC-SAP-DRS-II, Department of Animal Science, Bharathidasan University, Tiruchirappalli, from 5<sup>th</sup> April 2018 to February 2020.
5. Co-ordinator, University Science Instrumentation Centre (USIC), Bharathidasan University, Tiruchirappalli from 05 March 2018 to 05 July 2023.
6. Co-ordinator, National Centre for Alternatives to Animal Experiments (NCAAE), UGC -CPEPA Scheme, Bharathidasan University, Tiruchirappalli (2016-2021).
7. Controller of Examinations (i/c), Bharathidasan University, Tiruchirappalli from 8<sup>th</sup> February 2016 to 30<sup>th</sup> January 2018.
8. Registrar (i/c), Bharathidasan University, Tiruchirappalli from 27<sup>th</sup> June 2017 to 7<sup>th</sup> July 2017.
9. Deputy Controller of Examinations (i/c), Bharathidasan University, Tiruchirappalli from 18<sup>th</sup> May 2011 to 15<sup>th</sup> October 2014.

## Areas of Research

- ❖ Aquaculture Nutrition
- ❖ Aquatic Pathology
- ❖ Aquatic Toxicology
- ❖ Aquabiotics
- ❖ Nanoscience

## Research Focus

Our team's focus lies in utilizing Probiotics, Biosynthesized Nanoparticles, Peptides, and Feed Nutrition to positively impact the Aquaculture Industry. We aim to address bacterial infections (20%) and antibiotic resistance, which are significant causes of mortality in fish hatcheries. We propose employing Probiotics and Nanoparticles, along with added Nutrition and Peptides, to enhance disease resistance, fish growth, water quality, and pathogen control. Furthermore, our research involves investigating the toxicity of metal nanoparticles and their effects on the aquatic ecosystem.

## Research Supervision / Guidance

	Program of Study	Completed	Ongoing	Submitted
Research	Ph.D.	09	07	-
	M.Phil.	36	-	-
Project	PG	63	01	-
	UG / Others	06/24	02	-

## List of Students Completed Ph. D

S. No	Name of the candidate	Title of the thesis	Year of Awarded
1	Dr. K. P. Senthil Kumar	Studies on genetic diversity and allele polymorphism of drug – xenobiotic metabolizing enzymes in Indian population and their linkage analysis with head and neck cancer	2014
2	Dr. N. Kanipandian	Synthesis of silver nanoparticles using <i>Cleistanthus collinus</i> and <i>Gossypium hirsutum</i> to target lung cancer	2015

3	<b>Dr. V. Vignesh</b>	Exploration, characterization of bacteriocin like substances and exopolysaccharide from a spore – forming bacterial candidate and its significance	<b>2016</b>
4	<b>Dr. K. Parthiban</b>	Studies of biomedical and biotechnological significance of exopolymer from marine bacteria in pak bay, south coast of India	<b>2016</b>
5	<b>Dr. M. Sathiya Deepika</b>	Novel drug resistant therapeutic strategies using rutin from peels of <i>Citrus sinensis</i> in drug formulations for biomedical applications	<b>2020</b>
6	<b>Dr. K. S. Rajkumar</b>	Toxicity effect of silver, zinc oxide nanoparticles and silver-zinc oxide nanocomposite synthesized using <i>Allium cepa L.</i> peel extract on <i>Cyprinus carpio</i>	<b>2021</b>
7	<b>Dr. S. Arun</b>	A comparison on teleost fish skin mucus solvent extracts and exploration of innate immune components of mucosal defense system	<b>2021</b>
8	<b>Dr. M. Dinesh Babu</b>	Biofabrication, structural characterization of AgNPs, CuONPs, and hybrid Ag-CuO NCs using <i>Ocimum americanum L.</i> aqueous leaf extract and its potential multifaceted biological applications	<b>2022</b>
9	<b>Dr. A. Manikandan</b>	Replacement of fishmeal by groundnut shells in <i>Labeo rohita</i> with special emphasis on growth, nutritional indices, and immunological status: Novel approach in the valorization of agricultural wastes as aquafeeds.	<b>2023</b>

<b>S. No</b>	<b>Name of the Candidate</b>	<b>PT/ FT</b>	<b>Month-Year of Registration</b>	<b>Current Aspects of the work</b>
1	<b>M. Bala Venkatesh</b>	PT	October 2016	Expression of a DNA repair gene MGMT, Associated miRNA and their correlation in colorectal cancer
2	<b>M. Pennarasi</b>	FT	October 2019	Anticancer activities in Zebra fish as Model Organism
3	<b>Monali Mishra</b>	FT	October 2019	<i>In vitro</i> and <i>In silico</i> Toxicology
4	<b>PL. Sivagaami</b>	FT	February 2020	Comparative Study of <i>Aloe barbadensis</i> and <i>Caulerpa racemosa</i> on Fishmeal Replacement Diet in Freshwater Fish <i>Labeo rohita</i> . Evaluation of Its Disease Resistance Against <i>Aeromonas hydrophila</i>
5	<b>J. Sudharshini</b>	FT	March 2021	Dietary replacement of fishmeal with fenugreek ( <i>Trigonella foenum-gracum</i> ) microgreens and examining the growth,

				antioxidant activity and immune related gene expression In <i>Cyprinus carpio</i>
6	A. Ubais	FT	June 2021	Sustainable green fabrication, characterization, and potential biological applications assisted by medicinal plant extract
7	B. Aarthy	FT	May 2023	Effects of dietary fish meal replacement by fermented bio-waste/seagrasses on growth performance, hematobiochemical, digestive and antioxidant enzyme activity of freshwater fish

## Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
69	01	04	03	01/07

Cumulative Impact Factor (as per JCR) : 231.256

h-index : 23

i10 index : 41

Total Citations : 1859

\*as on 21.06.2023

## Funded Research Projects

Completed Projects: 05

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC (Minor) (Co-investigator)	2004	2005	Utilization of waste banana peels and <i>Millingtonia hortensis</i> flowers in vermicomposting.	0.90
2	UGC (Major)	2010	2013	Molecular characterization of bacteria isolated from freshwater fishes and their potential use as probiotics.	10.58

3	DST-FAST TRACK	2013	2016	Study on developing an innovative chemical finger printing tool to defend fish bacterial diseases.	23.17
4	UGC-DAE Consortium For Scientific Research	2013	2016	Synthesis and characterization of metal nanoparticles using selective plants from Kolli hills: applications on human health and environmental remediation.	7.09
5	DBT	2015	2018	Dynamics of vitellogenin and vitellogenin receptor expression profile during different stages of maturation and spawning in the life cycle of two consecutive generation of the eye ablated prawn, <i>Macrobrachium rosenbergii</i>	30.57

#### Ongoing Projects:

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	RUSA	2021	2023	Exploitation of bioactive compounds and its role in sustainable aquaculture	9,18,000/-

#### Distinctive Achievements / Awards

1. Senior Research Fellow (1997-2000), Council of Scientific and Industrial Research, Government of India.
2. DST-FAST TRACK Young Scientist (2013-2016), Department of Science and Technology, Government of India.
3. UGC Raman Post Doctoral Research Fellow (2014-2015), University Grants Commission (UGC), Government of India, Auburn University, Alabama, United States of America.
4. Global initiative for academic networks (GIAN) program, Indian Institute of Technology, Kharagpur - Sanctioned on 2020.

#### Events organized in leading roles

#### Number of Seminars / Conferences / Workshops / Events organized:

#### Sessions chaired / Resource Person/ Convenor:

1. Acted as Chair Person and thematic panel of the “**XLVI Indian social science Conference**” held at Bharathidasan University, Tiruchirappalli, Tamil Nadu during 27<sup>th</sup> to 31<sup>th</sup> January 2023.

2. Acted as Chair Person of the International Conference on **“Recent Trends in Microbiology (RTM - 2023)”** held at Department of Microbiology, Alagappa University, Karaikudi, Tamil Nadu during 5<sup>th</sup> & 6<sup>th</sup> January 2023.
3. Co-ordinator for the **UGC-Sponsored Refresher Course Biological Science (Interdisciplinary)** held at Bharathidasan University, Tiruchirappalli, Tamil Nadu from 05.07.2022 to 18.07.2022.
4. Co-ordinator for the **UGC-Sponsored Refresher Course Life Sciences (Interdisciplinary)** held at Bharathidasan University, Tiruchirappalli, Tamil Nadu from 08.09.2021 to 21.09.2021.
5. Co-ordinator for the **UGC-Sponsored Refresher Course Bio-Sciences** held at Bharathidasan University, Tiruchirappalli, Tamil Nadu from 11.12.2020 to 24.12.2020.
6. Resource person in **UGC-Sponsored Refresher Course on Life Sciences** conducted by UGC-HRDC, at Bharathidasan University, Tiruchirappalli, Tamil Nadu on 24<sup>th</sup> July 2019.
7. Organizing Secretary for the National Conference on **“Technologies and Prospects of Fisheries and Aquaculture (NCTPFA-2018)”** sponsored by DST-PURSE-II and UGC-SAP-DRS-II held at Bharathidasan University, Tiruchirappalli, Tamil Nadu on 9<sup>th</sup> March, 2018.
8. Co-Organizing Secretary for the National Conference on **“Environmental Biotechnology: Opportunities and Challenges, Department of Biotechnology”** Nehru Memorial College (Autonomous), Puthanampatti, Tiruchirappalli. Tamil Nadu on 2018.
9. Acted as Chair Person of the International Conference on **“Physiology and Medicine”** held at Department of Zoology, Periyar University, Salem, Tamil Nadu during 15<sup>th</sup>-17<sup>th</sup> October, 2014.
10. Organizing Secretary for the National Conference on **“Innovations, Implementations and Controversies of Animal Biotechnology”** sponsored by NFDB, DST, DST-PURSE-II and UGC-XII Plan held at Bharathidasan University, Tiruchirappalli, Tamil Nadu during 20<sup>th</sup> and 21<sup>st</sup> March, 2014.
11. Convenor for the National Conference on **“Evolutionary Trends in Biological and Pharmaceutical Chemistry (NCETBP-2014)”** held at Holy Cross College (Autonomous), Tiruchirappalli, Tamil Nadu during 30<sup>th</sup> and 31<sup>st</sup> January, 2014.
12. Acted as Chair Person of **“Indo-UK Conference on Shrimp Aquaculture-Challenges and Innovative Solutions 2012 (SACIS-2012)”** held at Department of Bioinformatics, Bharathidasan University, Tiruchirappalli, Tamil Nadu during 25<sup>th</sup> and 26<sup>th</sup> January, 2012.
13. Organizing Secretary for the National Seminar on **“Challenges in Animal Biotechnology and Environmental Management Research”** held at Bharathidasan University, Tiruchirappalli, Tamil Nadu on 23<sup>rd</sup> June, 2011.

14. Acted as Chair Person the Annual Conference of “**Ethological Society of India (ACESI-2011) & Symposium on Chemicals Signals in Animal Welfare (CSAW-2011)**” held at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli, Tamil Nadu on 2011.
15. Co-Ordinator for the National Workshop on “**Recent Techniques in Biotechnology**” held at Thiagarajar College (Autonomous), Madurai, Tamil Nadu during 23<sup>rd</sup> February - 11<sup>th</sup> March, 2005.
16. Acted as Co-chair person the “**NABS in Collaboration with Department of Microbiology**” held at Bharathidasan University, Tiruchirappalli, Tamil Nadu.

### Events Participated (optional)

#### Conferences / Seminars / Workshops: 39

##### International level: 13

1. Webinar on “**Excellence in Peer Review: How to be an effective peer reviewer**” organized by Tylor & Francis Reviewer Training Network, at 12<sup>th</sup> November, 2022.
2. “**World Brackishwater Aquaculture conference, BRAQCON-2019**” held at Society of Coastal Aquaculture and Fisheries (SCAFi) and ICAR- Central Institute of Brackishwater Aquaculture (ICAR-CIBA, Chennai), during 22<sup>nd</sup>-25<sup>th</sup> January 2019.
3. “**Congress on Nanoscience & Nanotechnology**” held at Kuala Lumpur, Malaysia, during 28<sup>th</sup>& 29<sup>th</sup> January, 2016.
4. “**Conference in Aquaculture America 2015**” held at New Orleans, Louisiana, USA organized by World Aquaculture Society, USA, during February 19-22, 2015.
5. “**Conference on Oceanography Philadelphia, USA**” held at OMICS International and the Editors of Journal of Marine Science: Research & Development, Fisheries and Aquaculture Journal and Journal of Aquaculture & Research Development, during June 22-24, 2015.
6. “**Conference on Frontiers of Environment, Energy and Bioscience**” held at International Research Association and Computer Science, Beijing, China, during 24<sup>th</sup>& 25<sup>th</sup> October, 2013.
7. “**Conference on World Congress on Biotechnology**” held at The Bright International Conferences and Events, Hyderabad, Andhra Pradesh, India during 4<sup>th</sup> and 6<sup>th</sup> May 2012.
8. “**Conference on Nanotechnology at the Bio-Medical Interface 2012**” held at Amrita Institute of Medical Sciences, Kochi, Kerala, India during 21<sup>st</sup> and 23<sup>rd</sup> February 2012.
9. “**Indo - UK Conference on Shrimp Aquaculture-Challenges and Innovative Solutions 2012 (SACIS-2012)**” held at Department of Bioinformatics, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India during 25<sup>th</sup> - 27<sup>th</sup> January, 2012.
10. “**Environmental Risk Assessment 2011**” held at Bharathiar University, Coimbatore, Tamil Nadu, India during 17<sup>th</sup>-19<sup>th</sup> October, 2011.



11. Conference on **“Natural Products and Biomedical Technology (ICNPBT – 2011)”** held at Department of Biochemistry and Biotechnology & Faculty of Marine Sciences, Annamalai University, Chidambaram, Tamil Nadu, India during 10<sup>th</sup> and 12<sup>th</sup> January, 2011.
12. Workshop on **“Molecular Microbial Pathology”** held at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India during 12<sup>th</sup> - 18<sup>th</sup> March, 2008.
13. **“Data Analysis and Data Mining in Proteomics and the Satellite Mascot Workshop”** held at National University of Singapore, Singapore during 9<sup>th</sup>-12<sup>th</sup> May, 2005.
14. **“Seminar on Recent Advances in Biotechnology”** held at School of Life Science, Ponnaiyah Ramajeyam College, Thanjavur, Tamil Nadu, India during 24 & 25<sup>th</sup> February, 2002.

#### National level: 18

15. Virtual lecture workshop on **“Sustainable aquaculture technologies (SAT-2021)”** held on 09.08.2021 – 14.08.2021, organized by Department of Marine Science, School of Marine Sciences, Bharathidasan University, Tiruchirappalli, Tamil Nadu.
16. **“2<sup>nd</sup> National Conference of the society for Alternatives To Animal Experiments – India (NCAAE-2019)”** held at Guru Nanak Khalsa College, Mumbai, during 13<sup>th</sup> & 14<sup>th</sup> December 2019.
17. ICAR Short Course on **“Application of Advanced Molecular Methods in Marine Fishery Resource Management, Conservation and Sustainable Mariculture”** held at Marine Biotechnology Division, ICAR-Central Marine Fisheries Research Institute, Kochi, Kerala, during 24<sup>th</sup> October to 2<sup>nd</sup> November 2018.
18. Orientation workshop on **“SWAYAM”** held at Department of Library & Information Science and UGC- Human Resource Development Centre, Bharathidasan University, Tiruchirappalli, Tamil Nadu during 3<sup>rd</sup> May, 2018.
19. UGC-Sponsored Two day Workshop for Academic Administrators on **“Institutional Assessment and Accreditation”** held at UGC- Human Resource Development centre and Internal Quality Assurance Cell at Bharathidasan University, Tiruchirappalli, Tamil Nadu during 12<sup>th</sup>-13<sup>th</sup> March, 2018.
20. **“CPCSEA on Welfare of Laboratory Animals”** held at Government of India Ministry of Environment, Forest and Climate Change Animal Welfare Division committee for the purpose of control and supervision of Experiments on Animals (CPCSEA), New Delhi during 9<sup>th</sup> January, 2018.
21. Workshop on **“Quality Research Report Writing”** for Research Advisors/Guides, held at CDC, Bharathidasan University, Tiruchirappalli, Tamil Nadu during 28<sup>th</sup> February, 2014.

22. Seminar on **“Recent Trends in Microbial Technology with Reference to Extremophiles”**, held at Periyar University, Salem, Tamil Nadu during 21<sup>st</sup> and 22<sup>nd</sup> October, 2010.
23. Conference on **“Bioprospecting of Marine Resources with Special Reference to Marine Natural Products and Drug Discovery”** held at Alagappa University, Karaikudi, Tamil Nadu during 25<sup>th</sup> and 27<sup>th</sup> August, 2010.
24. Workshop on the **“Digitalized CD ROM Animal Alternatives to Replace the Animals used in Zoology Practical Curriculum”** held at Department of Zoology, Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi, Tamil Nadu during 5<sup>th</sup> February, 2009.
25. Seminar on **“Cytogenetics”** held at Post-Graduate Department of Biotechnology, Ponnaiyah Ramajeyam College, Thanjavur, Tamil Nadu during 6<sup>th</sup> March, 2002.
26. Seminar on **“Ecofriendly Products for Crop Protection”** held at Post-graduate Department of Microbiology, Ponnaiyah Ramajayam College, Thanjavur, Tamil Nadu during 27<sup>th</sup> September, 2001.
27. Workshop on **“Aquaculture Medicine organized by Centre for Fish Disease Diagnosis and Management”** held at School of Environmental Studies, Cochin University of Science and Technology, Kochi, Kerala during 18<sup>th</sup>-20<sup>th</sup> January, 2001.
28. **“National Aquaculture Week 1997”** held at Indian Council of Agriculture Research and Aquaculture foundation of India. Neelankarai, Chennai, Tamil Nadu during 31<sup>st</sup> January - 01<sup>st</sup> February, 1997.
29. Workshop on **“Radiation Ecology”** held at Jamal Mohamed College, Tiruchirappalli, Tamil Nadu during 29-30<sup>th</sup> March, 1996.
30. Workshop on **“Application of Statistics in Biological Research”** held at Department of Animal Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu during 5<sup>th</sup> and 6<sup>th</sup> March, 1996.
31. Workshop on **“Chromatographic Techniques”** held at Kongunadu Arts College, Coimbatore, Tamil Nadu during 26-28<sup>th</sup> April, 1995.
32. Seminar on **“Solid Waste Management Programme”** held at EXNORA International, Bishop Heber College, Tiruchirappalli, Tamil Nadu during 1<sup>st</sup> April, 1995.

### State Level: 03

33. Seminar on **“Biodiversity is Life Biodiversity is Our Life”** held at Department of Botany, The Madura College (Autonomous), Madurai during 12<sup>th</sup> October, 2010.
34. Workshop of **“IPR and Patent Awareness”** held at Department of Microbiology, Ayya Nadar Janaki Ammal College (Autonomous), Sivakasi during 16<sup>th</sup> September, 2004.
35. Workshop on **“Vermitechnology for Eco-friendly waste management”** held at Department of Zoology and Biochemistry, Kongunadu Arts & Science College, Coimbatore during 5-7<sup>th</sup> August, 2004.

## Other Training Programs: 05

36. ICAR sponsored Short course on **“Application of Advanced Molecular methods in Marine Fishery Resource Management, Conservation and Sustainable Mariculture”** held at Marine Biotechnology Division, CMFRI, Kochi, Kerala, India during 24<sup>th</sup> October 2018 – 2<sup>nd</sup> November, 2018.
37. Certificate Course Program on **“Applied Physiology of Pain, Analgesia, Anesthesia and Euthanasia for Laboratory Animals conducted by Sri Lanka Association for Laboratory Animal Science (SLALAS)”** in collaboration with The Comparative Biology Centre, Newcastle University, UK, 30<sup>th</sup> October - 3<sup>rd</sup> November, 2017.
38. Training Programme on **“Sustainable Shrimp Framing-Way Forward”**, TNFU, Chennai, Tamil Nadu, India during 13<sup>th</sup> and 14<sup>th</sup> June, 2014.
39. Training Course on **“Aspects of Remote sensing”**, held at Department of Geology, School of Geo Sciences, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India during 26<sup>th</sup>-30<sup>th</sup> October 2006.
40. Training Programme on **“Identification of Flora and Fauna in Mangrove Ecosystems”**, (All India Co-ordinated Project on Coastal and Marine Biodiversity), held at Centre of Advanced study in Marine Biology, Annamalai University, Parangipettai, Tamil Nadu, India during 3<sup>rd</sup>-12<sup>th</sup> April, 2002.

## Overseas Exposure / Visits

1. Sri Lanka
2. Malaysia
3. USA
4. China
5. Singapore

## Membership in

### Professional Bodies

1. Member in World Aquaculture Society
2. Member in International Society of Zoological Sciences
3. Member in Association of Microbiologists of India
4. Member in International Scientific Association for Probiotics and Prebiotics
5. Reviewer and Senior Member in Asia – Pacific Chemical, Biological and Environmental Engineering Society
6. Member in National Academy of Biological Sciences

### Editorial Board

1. Editorial Board Member in International Journal of Fisheries and Aquaculture Sciences (IJFAS), India.

## Advisory Board

1. Advisory committee member in National conference on 13<sup>th</sup> NABS Conferences on Current Prospectives for Sustainable Development in Life sciences, Environment and Agriculture, Periyar University, Salem, Tamil Nadu, India.
2. Advisory committee member in International conference on Recent trends in Microbiology (RTM-2023), Alagappa University, Karaikudi, Tamil Nadu, India.
3. Advisory committee member in International conference on Recent trends in Microbiology (RTM-2016), Alagappa University, Karaikudi, Tamil Nadu, India.
4. Advisory committee member to the Editorial Board- INSPIRE –NMC Journal of Science and Humanities, India.

## Academic Bodies (such as Board of Studies etc.,)

### 1. Member of Board of Studies : 30

- Member of Board of Studies in Department of Zoology, Kalaignar Karunanidhi Government Arts College for women (Autonomous), Pudukkottai from 2022 to 2023.
- Member of CAS application – Screening cum Evaluation Committee, Department of Animal Health and Management and Zoology (DDE), Alagappa University, Karaikudi on 13.12.2022.
- Member of Board of Studies in Department of Zoology, Kanchi Mamunivar Government Postgraduate Studies & Research (Pondicherry University), Lawspet, Puducherry from 2022-2025.
- Member of Board of Studies in Department of Zoology, A.D.M. College for Women (Autonomous), Nagapattinam from 2022 –2025.
- Member of Board of Studies in Department of Zoology, A.V.V.M. Sri Pushpam College, (Autonomous), Poondi, Thanjavur from 2021 to 2024.
- Member of Board of Studies in Department of Zoology, Government Arts College (Autonomous), Kumbakonam from 2021 to 2024.
- Special Invitee / Member of Board of Studies in Department of Biology, Gandhigram Rural Institute (Deemed to be University), Gandhigram on 18.09.2021.
- Chairman of Board of Studies in Department of UG and PG Zoology, Affiliated Colleges, Bharathidasan University, Tiruchirappalli from 2021-2024.
- Member of Board of Studies in Department of Zoology, Government Arts College (Autonomous), Karur from 2021-2024.
- Member of Board of Studies in Department of Zoology, Government Arts College (Autonomous), Kumbakonam from 2020-2021.
- Member of Board of Studies in Department of Zoology, Thanthai Hans Roever College (Autonomous), Perambalur from 2021-2024.

- Member of Board of Studies in Department of Zoology, Tamil Nadu Open University from 2020-2023.
- Member of Board of Studies in Department of Zoology, Avinashilingam Institute for Home Science and Higher Education for Women (Deemed to be University) from 2020-2022.
- Member of Board of Studies in Department of Microbiology, Srimad Andavan Arts and Science College, Tiruchirappalli from 2019-2020.
- Member of Board of Studies in Department of Biotechnology, Cauvery College for Women (Autonomous), Tiruchirappalli from 2019-2022.
- Member of Board of Studies in Department of Zoology, Periyar University, Salem from 2018 to 2019.
- Member of Board of Studies in Department of Zoology, Periyar E.V.R. College (Autonomous), Tiruchirappalli from 2017 to 2019.
- Member of Board of Studies in Department of Zoology, H.H. The Rajah's College, (Autonomous) Pudukkottai from 2017 to 2020.
- Member of Board of Studies in Department of Animal Health and Management, Alagappa University, Karaikudi from 2017 to 2020.
- Member of Board of Studies in Department of Zoology, Affiliated Colleges, Alagappa University, Karaikudi from 2017 to 2020.
- Member of Board of Studies in Department of Zoology, National College (Autonomous), Tiruchirappalli from 2017 to 2019.
- Member of Board of Studies in Department of Zoology, Sadakathullah Appa College (Autonomous), Tirunelveli on 2018.
- Member of Board of Studies in Department of Zoology, A.V.C. College (Autonomous), Mannampandal, Mayiladuthurai from 2016 to 2018.
- Member of Board of Studies in Department of Zoology, Seethalakshmi Ramaswami College (Autonomous), Tiruchirappalli from 2016 to 2018.
- Member of Board of Studies in Department of Zoology, Holy Cross College (Autonomous), Tiruchirappalli from 2016 to 2017.
- Member of Board of Studies in Department of Microbiology, Alagappa University, Karaikudi from 2016 to 2019.
- Member of Board of Studies in Department of Microbiology, Thiagarajar College (Autonomous), Madurai from 2013 to 2015.
- Member of Board of Studies in Department of Zoology, Nehru Memorial College (Autonomous), Puthanampatti from 2013 to 2015.
- Member of Board of Studies in Department of Zoology, Bishop Heber College (Autonomous), Tiruchirappalli from 2013 to 2015.
- Member of Board of Studies in Department of Biotechnology (UG & PG) and Gene Technology (PG), Bharathidasan University, Tiruchirappalli from 2012 to 2015.

## 2. Member of Academic and Administrative Expert in Various Committees: 66

- Subject Expert for the selection of Assistant Professor of Zoology, PMT College, Kamudhi and Interview held at Sri Meenakshi Government Arts College For Women, Goripalayam, Madurai 625 002 on 02.06.2023.
- Participation in DST-PURSE-Viswa Vidyalaya Anusandhan Utsav meet at Dr. Ambedkar International Centre, Janpath Road, New Delhi-110011 on 24.05.2023 to 25.05.2023
- Subject Expert for the Staff selection in Department of Zoology, Holy Cross College (Autonomous), Tiruchirappalli on 10.05.2023
- Member of selection committee for the appointment of Assistant Professor, Department of Zoology, Nehru Memorial College (Autonomous), Tiruchirappalli on 10.01.2023
- Member of Screening Cum Evaluation committee under CAS promotion, Department of Animal Health and Management & zoology (DDE), Alagappa University, Karaikudi on 13.10.2022
- Inspection committee member for Learners Support Centre-Centre for Distance Education and Online Education (CDOE), Bharathidasan University at St. Charles College for Arts and College, Charles Nagar, Eraiyur (P.O.), Kallakurichi on 03.11.2022.
- Inspection committee member for Learners Support Centre-Centre for Distance Education, and Online Education (CDOE), Bharathidasan University at Gem Gates Arts & Science College, Kothampadi, Attur, Salem on 27.09.2022.
- Inspection committee member for Learners Support Centre- Centre for Distance Education and Online Education (CDOE), Bharathidasan University at Kaveripakkam College of Arts & Science, Athipattu panchayat, Ranipettai on 01.10.2022.
- Member in TANSCH project monitoring committee, Bharathidasan University, Tiruchirappalli on 16.09.2022.
- Member, Executive committee of IECD, Bharathidasan University from 25.01.2022 to 24.01.2025.
- University Representative to the Academic Council for St. Joseph's College (Autonomous), Tiruchirappalli from 2021 to 2022.
- Expert Committee Member to scrutinize Ph.D. Thesis, Bharathidasan University, Tiruchirappalli on 28.03.2022.
- University Representative to the Academic council for Bishop Heber College (Autonomous), Tiruchirappalli from 2022 to 2025.
- Subject Expert in the Selection Committee for promotion of the faculty members under career advancement scheme (CAS) on 27.01.2022 and 28.01.2022 at Mannonmaniam Sundaranar University, Tirunelveli.
- Inspection Committee Member, Infinity Educational Services, Coimbatore on 08.03.2021.
- University Representative to Academic council for Dhanalakshi Srinivasan College of Arts and Science for Women (Autonomous), Perambalur from 2021 to 2023.

- Member of Academic council A.D.M. College for Women (Autonomous), Nagapattinam held on 2021.
- Expert in scrutiny committee of CAS promotion for Associate Professor at Tamil Nadu Open University, Chennai on 21.10.2021.
- University Subject Expert for the Selection of Assistant Professor in Zoology, National College (Autonomous), Tiruchirappalli on 16.08.2021.
- Vice-Chancellor's Nominee for the Selection of Research Assistant/Research Associate in ICMR, Madurai Kamaraj University, Madurai on 29.03.2021.
- Inspection Committee Member, APC Mahalakshmi College for Women, Thoothukudi on 14.02.2020.
- Chair person in the Inspection committee for the grant of provisional affiliation to start new Govt. Arts & Science College (Co-ed), Jayankondam, Ariyalur on 30.12.2020.
- Subject Expert for the selection of Assistant Professor in Department of Zoology, A.V.V.M. Sri Pushpam College, (Autonomous), Poondi, Thanjavur on 05.12.2020.
- University Representative to the Governing Body for Rajah Serfoji Government College, Thanjavur from 2019 to 2022.
- Subject Expert of Inspection Commission, National Centre for Coastal Research, Chennai on 12.04.2019.
- External Expert for the selection of Project Fellow in MoEF&CC-MRP, Department of Oceanography and Coastal Area Studies (CAS), Alagappa University, Thondi Campus, Thondi on 18.09.2019.
- University Nominee of the selection committee for the recruitment of Assistant Professor, A.V.V.M Sri Pushpam College (Autonomous), Poondi, Thanjavur on 09.11.2019.
- University Representative to the Governing Body for Government Arts College (Autonomous), Kumbakonam from 2018 to 2021.
- University Representative to the Governing Body for Thanthai Hans Roever College (Autonomous), Perambalur from 2018 to 2021.
- External Examiner for Final Year Project (B.Tech and M.Tech), Kalasalingam Academy of Research and Education, Krishnankoil on 23.11.2018.
- Member of Assessment committee in the position of external expert in finalize the report of Major Research Project, Department of Microbiology, Alagappa University, Karaikudi on 08.11.2018.
- Vice-Chancellor Nominee for the appointment of Assistant Professor in Zoology, Seethalakshmi Achi College for Women, Pallathur on 23.07.2018.
- University Nominee for the selection of Assistant Professor in Department of Zoology, Tamilavel Umamaheswaranar Karanthai Arts College, Thanjavur on 27.08.2018.
- External Expert for the selection of Project Fellow, GOMBRT project in Department of Oceanography, Alagappa University, Thondi on 24.09.2018.
- Subject Expert for CAS Promotion, Department of Zoology, Bharathiar University, Coimbatore on 09.11.2018.

- Subject Expert for CAS Promotion, Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore on 09.11.2018.
- External Expert for the final report assessment/evaluation of UGC-MRP, Department of Microbiology, Alagappa University, Karaikudi on 08.11.2018.
- Review Inspection Committee Member, Bishop Heber College, Tiruchirappalli on 21.12.2017.
- Member of Selection Committee for the selection of Principal, Nehru Memorial College (Autonomous), Puthanampatti, Tiruchirappalli on 10.05.2017.
- Expert for the selection of Assistant Registrar and Section officer, Bharathidasan University, Tiruchirappalli on 09.01.2017.
- Expert for the selection of Office Assistant and Gardener, Bharathidasan University, Tiruchirappalli on 03.03.2017.
- External Expert for the selection of Project Fellow in DST-PURSE, Department of Microbiology, Alagappa University, Karaikudi on 24.08.2017.
- Member of Screening cum Evaluation Supercheck committee for CAS promotion in Department of Zoology, Periyar University, Salem on 25.11.2017.
- Expert for the selection of permanent staff from daily wages on the basis of compassionate grounds and Physically Handicapped, Bharathidasan University, Tiruchirappalli on 25.05.2017.
- University Nominee of the selection committee for the recruitment of Assistant Professor in Department of Zoology, A.V.C. College, Mayiladuthurai on 05.09.2017.
- Member of subject expert screening committee in the recruitment of Professor and Assistant Professor in Department of Environmental Science, Bharathiar University, Coimbatore on 27.08.2016.
- University Representative/ Subject Expert for the selection committee of Assistant Professor in Nutrition & Dietetics, Seethalakshmi Ramaswami College (Autonomous), Tiruchirappalli on 2016.
- Expert for Skill Test Expert for the Selection of Field Assistant in Department of Oceanography and Coastal Area Studies, Alagappa University, Karaikudi on 22.01.2016.
- Member of Inspection Committee for the approval of Ph.D. programme in Department of Zoology, Bishop Heber College, Tiruchirappalli on 05.05.2016.
- External Expert for upgradation of RGNF-JRF to RGNF-SRF in Department of Zoology, Bharathiar University, Coimbatore on 12.12.2016.
- University Representative to the Governing Body, A.V.V.M. Sri Pushpam College, (Autonomous), Poondi, Thanjavur from 2016 to 2018.
- University Representative for the selection committee of Assistant Professor in Economics, Urumu Dhanalakshmi College, Tiruchirappalli on 08.02.2016.
- Expert for the selection of permanent staff from daily wages on the basis of compassionate grounds, Bharathidasan University, Tiruchirappalli on 22.09.2016.
- Panel member in the selection committee for the selection of non-teaching staff, Alagappa University College of Arts and Science, Paramakudi on 28.10.2015.



- Member in Re-inspection committee for having additional section in B.Sc Biotechnology, E.G.S. Pillai Arts and Science College, Nagapattinam on 01.04.2014.
- Panel member in the selection committee of Assistant Professor in Department of Zoology, Nehru Memorial College, (Autonomous), Puthanampatti on 10.05.2014.
- Member in Inspection committee for having additional section in B.Sc Biotechnology, E.G.S. Pillai Arts and Science College, Nagapattinam on 20.01.2013.
- External Expert for the Selection of Research Fellow in DST-SERB Project, Alagappa University, Karaikudi on 17.10.2013.
- Panel member in the selection committee for Junior Research Fellow in DST -EMEQ Project, Department of Animal Science, Bharathidasan University, Tiruchirappalli on 27.09.2013.
- Member of the selection committee for the post of Assistant professor in Zoology, Directorate of Distance Education, Madurai Kamaraj University, Madurai on 10.07.2013.
- Subject Expert for the Selection of Project Fellow in UGC Major Research Project, Govt. Arts College (Autonomous), Karur on 12.10.2011.
- Member in Evaluation of SET 2011, Bharathiar University, Coimbatore.
- Subject Expert for the Selection of Project Fellow in UGC Major Research Project, Department of Biotechnology, Bharathidasan University, Tiruchirappalli.
- Member in M.Tech course entrance examination committee, Bharathidasan University, Tiruchirappalli.
- Member of Selection Committee for the selection of Principal, Dharmapuram Adhinam Arts College, Mayiladuthurai.

### Resource persons in various capacities

#### Number of Invited / Special Lectures delivered: 35

1. Delivered Invited Lecture on National Conference on Recent Trends in Microbiology (RTM - 2023) entitled "**Probioitcs: A key mediator in aquaculture**" organized by Department of Microbiology, Alagappa University, Karaikudi on 5<sup>th</sup> & 6<sup>th</sup> of January 2023.
2. Delivered Invited Lecture on National Seminar on 75 years of Advancements in Zoological Research entitled "**Current perspectives on trends in aquaculture technology**" organized by Department of Zoology, Periyar University, Salem - 636 011 on 13<sup>th</sup> September 2022.
3. Delivered Invited Lecture on National Conference on Recent Trends in Biotechnology entitled "**Interventions of Biotechnology and Aquaculture: current and future prospects**" organized by Department of Biotechnology, Bharathidasan University, Tiruchirappalli- 620 024 on 20<sup>th</sup> & 21<sup>st</sup> of February 2020.
4. Delivered Invited talk on "**Techniques in Animal Science Research**" UGC- HRDC, Bharathidasan University, Khajamalai campus, Tiruchirappalli on 24<sup>th</sup> July 2019.

5. Delivered Valedictory address on **“Hands on Training to Create Awareness about Applied Zoology for Self Employment”** in PG & Research Department of Zoology, Govt arts college (Autonomous), Kumbakonam held on 13<sup>th</sup> October 2018.
6. Delivered Invited lecture on **“Innovations, Implementations and Challenges of Aquatic Biotechnology”** in Department of Biochemistry, Holy Cross college (Autonomous), Tiruchirappalli held on 11<sup>th</sup> September 2018.
7. Delivered Inaugural address on **“UGC- Sponsored Refresher courses in Gender Studies and Nano Sciences (interdisciplinary)”** in UGC-Human Resource Development Centre, Bharathidasan University, Tiruchirappalli held on 20<sup>th</sup> December 2017.
8. Delivered Presidential address on valedictory function of Hands-on training on **“Taxonomic Identification on Coastal and Oceanic Copepods (TICOC-2017)”** in Department of Marine Science, Bharathidasan University, Tiruchirappalli held on 14<sup>th</sup> July 2017.
9. Special talk on Convocation function in Government Arts and Science College, Peravurani held on 2<sup>nd</sup> April 2017.
10. Delivered a lecture on Founders day and College day celebration in Khadir Mohideen College, Adirampattinam, Thanjavur held on 26<sup>th</sup> March 2017.
11. Special talk on **“Iymperum Vizha”** in Government Women’s Arts College, Pudukottai held on 26<sup>th</sup> February 2017.
12. Delivered a lecture on **“Eco-Waste Management and Nanobiology”** in Sri G.V.G. Visalakshi College for Women, Udumalpet held on 20<sup>th</sup> October 2016.
13. Special talk on National Service Scheme in Jamal Mohamed College, Tiruchirappalli held on 4<sup>th</sup> August 2016.
  
14. Special talk in Key Note Address on **“National level conference on Better Environment and Better Future”** in Holy Cross College, Tiruchirappalli held on 2<sup>nd</sup> August 2016.
15. Special talk in Valedictory address on Science Camp under Inspire Internship Scheme in Nehru Memorial College, Puthunampatti, Tiruchirappalli held on 1-5<sup>th</sup> August 2016.
16. Special talk in Inaugural address on Faculty Development Program (FDP) on **“Revising Examination System in the Current Scenario”** in Nehru Memorial College, Puthanampatti, Tiruchirappalli held on 19<sup>th</sup> March 2016.
17. Special talk in Inaugural function on Training Programme on **“Coaching to Teach Rote Learning Through Music”** in Kalai Kaviri College of Fine Arts, Tiruchirappalli held on 9<sup>th</sup> March 2016.
18. Special talk on Convocation in Bharathidasan University Constituent Arts & Science College, Navalurkuttappattu, Srirangam, Tiruchirappalli held on 5<sup>th</sup> March 2016.
19. Special talk on UGC Sponsored Two-Day Seminar on **“Women in Public Administration”** in Department of Women Studies, Bharathidasan University, Tiruchirappalli held on 11<sup>th</sup> & 12<sup>th</sup> February 2016.

20. Special talk on Valedictory Address in SERB sponsored National Conference on **“Trends in Healthcare and Biotechnology Opportunities & Challenges (THBOC-2016)”** in PG and Research Department of Zoology & Biotechnology, A. Veeriyar Vandayar Memorial Sri Pushpam College, Poondi, Thanjavur held on 22<sup>nd</sup> & 23<sup>rd</sup> January 2016.
21. Delivered an Invited lecture in National Workshop on **“Nanotechnology for Biologists”** in Department of Zoology, School of Life Sciences, Periyar University, Salem held on 6<sup>th</sup> – 8<sup>th</sup> January 2016.
22. Delivered a Graduation Address in 8<sup>th</sup> Graduation Day in Sri Bharathi College of Education, Kaikurichi, Pudukkottai held on 30<sup>th</sup> May 2014.
23. Delivered a special lecture on **“Opportunities and Challenges in Biotechnology in Regional Seminar on Biotechnology: Promises”** in Department of Botany, The Madura College (Autonomous) Madurai held on 17<sup>th</sup> March 2014.
24. Delivered a Graduation Address in 7<sup>th</sup> Graduation Day in Best Arts and Science College, Natham Road, Sattanathapuram, Sirkali held on 15<sup>th</sup> March 2014.
25. Special talk in DBT sponsored National Level Seminar on **“Nutriproteomics: Technologies and Applications in Personalized Health Care and Medicine”** in Department of Food Technology, Kongu Engineering College, Perundurai, Erode held on 22<sup>nd</sup> January, 2014.
26. Delivered a lecture on **“Fish Endocrine System”** in Department of Zoology, Periyar University, Salem held on 13<sup>th</sup> September 2013.
27. Delivered a lecture in CSIR sponsored National Seminar on **“Frontiers in Biotechnology”** in PG and Research Department of Biotechnology, Nehru Memorial College, Puthanampatti, Tiruchirappalli held on 9<sup>th</sup> August 2013.
28. Special talk on Convocation in Meenaakshi Ramasamy Arts and Science College, Thathanur, Udayarpalayam, Ariyalur held on 6<sup>th</sup> July 2013.
29. Delivered a lecture on **“Impact of Tobacco on Head and Neck Cancer”** in Green club of Department of Botany, Government Arts College, Ariyalur held on 2<sup>nd</sup> May 2013.
30. Delivered a lecture on **“Recent Trends in Aquatic Biotechnology”** in Department of Zoology, Nehru Memorial College, Puthanampatti, Tiruchirappalli held on 26<sup>th</sup> February 2013.
31. Delivered a lecture on **“Role of Probiotics in Animal Welfare”** in International Conference on Biotechnology in Department of Biotechnology, Sri Kaliswari College, Sivakasi held on 11<sup>th</sup> January 2013.
32. Special talk on **“National Seminar cum Workshop on Molecular Informatics and Drug Designing”** in Department of Zoology, Thiagarajar College, Madurai held on 21<sup>st</sup> March 2012.
33. Delivered an Invited lecture about **“Green Synthesis in Nanotechnology”** in Department of Botany, Seethalakshmi Ramaswami College, Tiruchirappalli held on 7<sup>th</sup> January 2012.
34. Delivered a special Address in **“National Educational Day”** in Infant Jesus College of Education, K. Kallikudi, Tiruchirappalli held on 11<sup>th</sup> November 2011.

35. Delivered a Valedictory Address on “**Recent trends in Material Science and their Applications**” in N.P.R. Arts and Science College, NPR Nagar, Natham, Dindigul held on 30<sup>th</sup> September 2011.
36. Special talk on “**Probiotics**” in the Refresher Course-‘Recent trends in Life Science Research’ in Department of Immunology, Madurai Kamaraj University, Madurai held on 29<sup>th</sup> July 2011.

### Others

1. Articles published in Newspapers / Magazines : **01**
2. Products developed : xx
3. No. of Ph.D Thesis evaluated : **36**
4. No. of Ph.D Public Viva Voce Examination conducted : **23**
5. Sequences submitted in GenBank : **07**

### Recent Publications (Total Number of publications: 73)

#### Year 2023

1. Palaniyappan Sivagaami, Arun Sridhar, and **Thirumurugan Ramasamy**. 2023. Bioactive Analysis of Antibacterial Efficacy and Antioxidant Potential of *Aloe barbadensis* Miller Leaf Extracts and Exploration of Secondary Metabolites Using GC-MS Profiling. **Applied Biochemistry and Biotechnology**, pp.1-45. (Impact factor 3.094)  
<https://doi.org/10.1007/s12010-023-04565-z>  
(<https://rdcu.be/dcGMB>)
2. Arumugam Manikandan, Dinesh Babu Manikandan, Sathish Kumar Marimuthu, Govarthanan Muthusamy, Zulhisyam Abdul Kari, Guillermo Téllez-Isaías, and **Thirumurugan Ramasamy**. 2023. "Evaluating Biofilm Inhibitory Potential in Fish Pathogen, *Aeromonas hydrophila* by Agricultural Waste Extracts and Assessment oAerolysin Inhibitors Using *In-Silico* Approach" **Antibiotics** 12, no. 5: 891. (Impact factor 5.222).  
<https://doi.org/10.3390/antibiotics12050891>  
(<https://www.mdpi.com/2079-6382/12/5/891>)
3. Palaniyappan Sivagaami, Arun Sridhar, Zulhisyam Abdul Kari, Guillermo Téllez-Isaías, and **Thirumurugan Ramasamy**. "Evaluation of Phytochemical Screening, Pigment Content, In Vitro Antioxidant, Antibacterial Potential and GC-MS Metabolite Profiling of Green Seaweed *Caulerpa racemosa*." **Marine Drugs** 21, no. 5 (2023): 278. (Impact factor 6.085).  
<https://doi.org/10.3390/md21050278>  
(<https://www.mdpi.com/1660-3397/21/5/278>)
4. Manikandan Dinesh Babu, Manikandan Arumugam, Arun Sridhar, Balaji Perumalsamy, and **Thirumurugan Ramasamy**. "Sustainable fabrication of hybrid silver-copper nanocomposites (Ag-CuO NCs) using *Ocimum americanum* L. as an effective regime against antibacterial, anticancer, photocatalytic dye degradation and microalgae toxicity." **Environmental Research** (2023): 115867. (Impact factor 8. 431).

<https://doi.org/10.1016/j.envres.2023.115867>

(<https://www.sciencedirect.com/science/article/abs/pii/S001393512300659X>)

5. Arumugam Manikandan, Sudharshini Jayaraman, Arun Sridhar, Vignesh Venkatasamy, Paul B. Brown, Zulhisyam Abdul Kari, Guillermo Tellez-Isaias, and **Thirumurugan Ramasamy**. "Recent Advances in Tilapia Production for Sustainable Developments in Indian Aquaculture and Its Economic Benefits." **Fishes** 8, no. 4 (2023): 176. (Impact factor 3.170).

<https://doi.org/10.3390/fishes8040176>

(<https://www.mdpi.com/2410-3888/8/4/176>)

## Year 2022

6. Vidhya, V., R. Jyothibabu, L. Jagadeesan, C. Rashid, K. T. Alok, N. Arunpandi, and **R. Thirumurugan**, (2022), Oxygen minimum zone copepods in the Arabian Sea and the Bay of Bengal: Their adaptations and status. **Progress in Oceanography**, pp. 102839 (Impact factor 4.416).

<https://doi.org/10.1016/j.pocean.2022.102839>

(<https://www.sciencedirect.com/science/article/pii/S0079661122001008?via%3Dihub>)

7. Dinesh Babu Manikandan, Srinivasan Veeran, Subburaj Seenivasan, Arun Sridhar, Manikandan Arumugam, Zhou Yangen, and **Thirumurugan Ramasamy**, (2022), Exploration of marine red seaweed as a dietary fish meal replacement and its potentiality on growth, hematological, biochemical, and enzyme activity in freshwater fish *Labeo rohita*. **Tropical Animal Health and Production**, 54(6), pp.1-15. (Impact factor 1.893).

<https://doi.org/10.1007/s11250-022-03392-4>

(<https://link.springer.com/article/10.1007/s11250-022-03392-4>)

8. Manikandan Arumugam, Dinesh Babu Manikandan, Sujitha Mohan, Arun Sridhar, Srinivasan Veeran, Sudharshini Jayaraman, and **Thirumurugan Ramasamy**, (2022), Comprehensive metabolite profiling and therapeutic potential of black gram (*Vigna radiata*) pods: conversion of biowaste to wealth approach, **Biomass Conversion and Biorefinery**: 1-32. (Impact factor 4.050).

<https://doi.org/10.1007/s13399-022-02806-5>

(<https://link.springer.com/article/10.1007/s13399-022-02806-5>)

9. Manikandan Arumugam, Dinesh Babu Manikandan, Arun Sridhar, Sivagaami Palaniyappan, Sudharshini Jayaraman, and **Thirumurugan Ramasamy**, (2022), GC-MS Based Metabolomics Strategy for Cost-Effective Valorization of Agricultural Waste: Groundnut Shell Extracts and Their Biological Inhibitory Potential, **Waste and Biomass Valorization**: 1-31. (Impact factor 3.449).

<https://doi.org/10.1007/s12649-022-01768-z>

(<https://link.springer.com/article/10.1007/s12649-022-01768-z>)

10. Prabhu Raju, Karthiyayini Balakrishnan, Monali Mishra, **Thirumurugan Ramasamy**, and Suganthi Natarajan, (2022), Fabrication of pH responsive FU@ Eu-MOF nanoscale metal organic frameworks for lung cancer therapy, **Journal of Drug Delivery Science and Technology** 70: 103223. (Impact factor 5.062).

<https://doi.org/10.1016/j.jddst.2022.103223>

(<https://www.sciencedirect.com/science/article/abs/pii/S1773224722001332>)

11. Rajkumar Krishnasamy Sekar, Ramkumar Arunachalam, Murugadas Anbazhagan,

Sivagaami Palaniyappan, Srinivasan Veeran, Arun Sridhar, and **Thirumurugan Ramasamy**, (2022), Accumulation, Chronicity, and Induction of Oxidative Stress Regulating Genes Through Allium cepa L. Functionalized Silver Nanoparticles in Freshwater Common Carp (*Cyprinus carpio*), **Biological Trace Element Research**: 1-22. **(Impact factor 4.081)**.

<https://doi.org/10.1007/s12011-022-03164-z>

(<https://link.springer.com/article/10.1007/s12011-022-03164-z>)

12. Rajkumar Krishnasamy Sekar, Palaniyappan Sivagaami, Arunachalam Ramkumar, Anbazhagan Murugadas, Veeran Srinivasan, Sridhar Arun, Ponnusamy Senthil Kumar, and **Ramasamy Thirumurugan**, (2022), Bio-functionalized zinc oxide nanoparticles: Potential toxicity impact on freshwater fish *Cyprinus carpio*, **Chemosphere** 290: 133220. **(Impact factor 8.943)**.

<https://doi.org/10.1016/j.chemosphere.2021.133220>

(<https://www.sciencedirect.com/science/article/abs/pii/S0045653521036948>)

13. Arun Sridhar, Francisco A. Guardiola, Rajkumar Krishnasamy Sekar, Sathiya Deepika Murugesan, Sivagaami Palaniyappan, Dinesh Babu Manikandan, Manikandan Arumugam, and **Thirumurugan Ramasamy**, (2022), Comparative assessment of organic solvent extraction on non-specific immune defences of skin mucus from freshwater fish, **Aquaculture International**: 1-18. **(Impact factor 2.935)**.

<https://doi.org/10.1007/s10499-022-00847-1>

(<https://link.springer.com/article/10.1007/s10499-022-00847-1>)

14. Somenath Banerjee, Sanjay Roy, Dhanasekaran Dharumadurai, Balaji Perumalsamy, **Ramasamy Thirumurugan**, Saurabh Das, Asoke Prasun Chattopadhyay, and Partha Sarathi Guin, (2021), A Co (III) Complex of 1-Amino-4-hydroxy-9, 10-anthraquinone Exhibits Apoptotic Action against MCF-7 Human Breast Cancer Cells, **ACS omega**, 7, no. 1: 1428-1436. **(Impact factor 4.132)**.

(<https://pubs.acs.org/doi/full/10.1021/acsomega.1c06125>)

## Year 2021

15. Manikandan Arumugam, Dinesh Babu Manikandan, Elayaraja Dhandapani, Arun Sridhar, Karthiyayini Balakrishnan, Manickavasagam Markandan, **Thirumurugan Ramasamy**, (2021), Green synthesis of zinc oxide nanoparticles (ZnO NPs) using *Syzygium cumini*: Potential multifaceted applications on antioxidants, cytotoxic and as nanonutrient for the growth of *Sesamum indicum*, **Environmental Technology & Innovation**, 101653. **(Impact factor 7.758)**.

<https://doi.org/10.1016/j.eti.2021.101653>

(<https://www.sciencedirect.com/science/article/abs/pii/S2352186421003011>)

16. Vignesh Venkatasamy, Rajesh Durairaj, Parthiban Karuppaiah, Arun Sridhar, Sathish Kumar Kamaraj, **Thirumurugan Ramasamy**, (2021), An In Silico Evaluation of Molecular Interaction Between Antimicrobial Peptide Subtilisin A of *Bacillus subtilis* with Virulent Proteins of *Aeromonas hydrophila*, **International Journal of Peptide**

**Research and Therapeutics**, 1-10. (Impact factor 2.191).

<https://doi.org/10.1007/s10989-021-10203-1>

(<https://link.springer.com/article/10.1007/s10989-021-10203-1>)

17. Annadurai Vinothkanna, Ganesan Sathiyarayanan, Perumalsamy Balaji, Krishnamurthy Mathivanan, Arivalagan Pugazhendhi, Yongkun Ma, Soundarapandian Sekar, **Ramasamy Thirumurugan**, (2021), Structural characterization, functional and biological activities of an exopolysaccharide produced by probiotic *Bacillus licheniformis* AG-06 from Indian polyherbal fermented traditional medicine, **International Journal of Biological Macromolecules**, Vol 174, 144-152. (Impact factor 8.025).

<https://doi.org/10.1016/j.ijbiomac.2021.01.117>

(<https://www.sciencedirect.com/science/article/pii/S0141813021001483>)

18. Arun Sridhar, Dinesh Babu Manikandan, Sivagaami Palaniyappan, Rajkumar Krishnasamy Sekar, **Thirumurugan Ramasamy**, (2021), Correlation Between Three Freshwater Fish Skin Mucus Antiproliferative Effect and Its Elemental Composition Role in Bacterial Growth, **Turkish Journal of Fisheries and Aquatic Sciences**, Vol 21, 233-244. (Impact factor 1.423).

[http://doi.org/10.4194/1303-2712-v21\\_5\\_03](http://doi.org/10.4194/1303-2712-v21_5_03)

(<https://www.trjfas.org/abstract.php?id=14825>)

19. Arun Sridhar, Dinesh Babu Manikandan, Sathish Kumar Marimuthu, Manikandan Murugesan, **Thirumurugan Ramasamy**, (2021), Methanol Skin Mucus Extract of Mrigal (*Cirrhinus mrigala*) Fish Peptide Targeting Viral Particles of Infectious Pancreatic Necrosis Virus (IPNV) and Infectious Salmon Anemia Virus (ISAV): an in silico Approach, **International Journal of Peptide Research and Therapeutics**, Vol 27, 1429-1440. (Impact factor 2.191).

<https://doi.org/10.1007/s10989-021-10179-y>

(<https://link.springer.com/article/10.1007/s10989-021-10179-y>)

20. Somenath Banerjee, Sanjay Roy, Arup Datta, Palash Mondal, Monali Mishra, Balaji Perumalsamy, **Ramasamy Thirumurugan**, Dhanasekaran Dharumadurai, Saurabh Das, Partha Sarathi Guin, (2021), Solubilization of sodium 3-amino-2-hydroxyanthraquinone-1-sulphonate in sodium dodecyl sulfate micelles explains its permeation in A549 human lung cancer cell, **Journal of the Chinese Chemical Society**, Vol 68, 250-262. (Impact factor 1.753).

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