



Dr. R. THIRUMURUGAN
Professor & Head

Contact

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School of Life Sciences
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Academic Qualifications: M.Sc./M.Phil./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

Additional Responsibilities

1. Head, Department of Animal Science, Bharathidasan University, Tiruchirappalli - 620 024 from 06th January 2021 onwards.
2. Head (i/c), Department of Animal Science, Bharathidasan University, Tiruchirappalli - 620 024 from 03rd January 2020 to 02nd July 2020.
3. Deputy Co-ordinator, UGC-SAP-DRS-II, Department of Animal Science, Bharathidasan University, Tiruchirappalli, from 5th April 2018 onwards.
4. Co-ordinator, University Science Instrumentation Centre (USIC), Bharathidasan University, Tiruchirappalli from 5th March 2018 onwards.
5. Co-ordinator, National Centre for Alternatives to Animal Experiments (NCAAE), UGC -CPEPA Scheme, Bharathidasan University, Tiruchirappalli (2016-2021).
6. Controller of Examinations (i/c), Bharathidasan University, Tiruchirappalli from 8th February 2016 to 30th January 2018.
7. Deputy Controller of Examinations (i/c), Bharathidasan University, Tiruchirappalli from 18th May 2011 to 15th October 2014.

Areas of Research

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

Research Supervision / Guidance

Program of Study		Completed	Ongoing	Submitted
Research	Ph.D.	08	07	-
	M.Phil.	36	-	-
Project	PG	57	04	-
	UG / Others	06/24	-	-

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	Dr. V. Vignesh	Exploration, characterization of bacteriocin like substances and exopolysaccharide from a spore – forming bacterial candidate and its significance	2016
4	Dr. K. Parthiban	Studies of biomedical and biotechnological significance of exopolymer from marine bacteria in pak bay, south coast of India	2016
5	Dr. M. Sathiya Deepika	Novel drug resistant therapeutic strategies using rutin from peels of <i>Citrus sinensis</i> in drug formulations for biomedical applications	2020

6	Dr. K. S. Rajkumar	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>	2021
7	Dr. S. Arun	A comparison on teleost fish skin mucus solvent extracts and exploration of innate immune components of mucosal defense system	2021
8	Dr. M. Dinesh Babu	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	2022

List of Students Pursuing Ph. D

S. No	Name of the Candidate	PT/ FT	Month-Year of Registration	Current Aspects of the work
1	M. Bala Venkatesh	PT	October 2016	Expression of a DNA repair gene MGMT, Associated miRNA and their correlation in colorectal cancer
2	A. Manikandan	FT	January 2018	Replacement of fishmeal by using natural waste for enhancing the growth and immunity of the carp Rohu (<i>Labeo rohita</i>)
3	M. Pennarasi	FT	October 2019	Anticancer activities in Zebra fish as Model Organism
4	Monali Mishra	FT	October 2019	<i>In vitro</i> and <i>In silico</i> Toxicology
5	PL. Sivagaami	FT	February 2020	Dietary combinatorial effect of <i>Aloe barbadensis</i> and <i>Gracilaria vermiculophylla</i> with replacement of fishmeal in freshwater fish <i>Labeo rohita</i>
6	J. Sudharshini	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>
7	A. Ubais	FT	June 2021	Sustainable green fabrication, characterization, and potential biological applications assisted by medicinal plant extract

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
68	01	05	03	01/07

Cumulative Impact Factor (as per JCR) : 212.21

h-index : 22

i10 index : 35

Total Citations : 1626

*as on 05.12.2022

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/-

Consultancy Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
.	-	-	-	-	-

Others: Nil

Patents

Nil

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. 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.
2. 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.

3. 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.
4. Resource person in **UGC-Sponsored Refresher Course on Life Sciences** conducted by UGC-HRDC, at Bharathidasan University, Tiruchirappalli, Tamil Nadu on 24th July 2019.
5. 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 9th March, 2018.
6. Co-Organizing Secretary for the National Conference on **“Environmental Biotechnology: Opportunities and Challenges, Department of Biotechnology”** Nehru Memorial College (Autonomous), Puthunampatti, Tiruchirappalli. Tamil Nadu on 2018.
7. Acted as Chair Person of the International Conference on **“Physiology and Medicine”** held at Department of Zoology, Periyar University, Salem, Tamil Nadu during 15th-17th October, 2014.
8. 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 20th and 21st March, 2014.
9. 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 30th and 31st January, 2014.
10. 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 25th and 26th January, 2012.
11. Organizing Secretary for the National Seminar on **“Challenges in Animal Biotechnology and Environmental Management Research”** held at Bharathidasan University, Tiruchirappalli, Tamil Nadu on 23rd June, 2011.
12. 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.
13. Co-Ordinator for the National Workshop on **“Recent Techniques in Biotechnology”** held at Thiagarajar College (Autonomous), Madurai, Tamil Nadu during 23rd February - 11th March, 2005.
14. 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. **“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 22nd-25th January 2019.
2. **“Congress on Nanoscience & Nanotechnology”** held at Kuala Lumpur, Malaysia, during 28th& 29th January, 2016.
3. **“Conference in Aquaculture America 2015”** held at New Orleans, Louisiana, USA organized by World Aquaculture Society, USA, during February 19-22, 2015.
4. **“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.
5. **“Conference on Frontiers of Environment, Energy and Bioscience”** held at International Research Association and Computer Science, Beijing, China, during 24th& 25th October, 2013.
6. **“Conference on World Congress on Biotechnology”** held at The Bright International Conferences and Events, Hyderabad, Andhra Pradesh, India during 4th and 6th May 2012.
7. **“Conference on Nanotechnology at the Bio-Medical Interface 2012”** held at Amrita Institute of Medical Sciences, Kochi, Kerala, India during 21st and 23rd February 2012.
8. **“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 25th - 27th January, 2012.
9. **“Environmental Risk Assessment 2011”** held at Bharathiar University, Coimbatore, Tamil Nadu, India during 17th-19th October, 2011.
10. 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 10th and 12th January, 2011.
11. Workshop on **“Molecular Microbial Pathology”** held at Department of Environmental Biotechnology, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India during 12th - 18th March, 2008.
12. **“Data Analysis and Data Mining in Proteomics and the Satellite Mascot Workshop”** held at National University of Singapore, Singapore during 9th-12th May, 2005.
13. **“Seminar on Recent Advances in Biotechnology”** held at School of Life Science, Ponnaiyah Ramajeyam College, Thanjavur, Tamil Nadu, India during 24 & 25th February, 2002.

National level: 18

14. 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.
15. **“2nd National Conference of the society for Alternatives To Animal Experiments – India (NCAAE-2019)”** held at Guru Nanak Khalsa College, Mumbai, during 13th & 14th December 2019.
16. 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 24th October to 2nd November 2018.
17. Orientation workshop on **“SWAYAM”** held at Department of Library & Information Science and UGC- Human Resource Development Centre, Bharathidasan University, Tiruchirappalli, Tamil Nadu during 3rd May, 2018.
18. 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 12th-13th March, 2018.
19. **“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 9th January, 2018.
20. Workshop on **“Quality Research Report Writing”** for Research Advisors/Guides, held at CDC, Bharathidasan University, Tiruchirappalli, Tamil Nadu during 28th February, 2014.
21. Seminar on **“Recent Trends in Microbial Technology with Reference to Extremophiles”**, held at Periyar University, Salem, Tamil Nadu during 21st and 22nd October, 2010.
22. Conference on **“Bioprospecting of Marine Resources with Special Reference to Marine Natural Products and Drug Discovery”** held at Alagappa University, Karaikudi, Tamil Nadu during 25th and 27th August, 2010.
23. 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 5th February, 2009.
24. Seminar on **“Cytogenetics”** held at Post-Graduate Department of Biotechnology, Ponnaiyah Ramajeyam College, Thanjavur, Tamil Nadu during 6th March, 2002.
25. Seminar on **“Ecofriendly Products for Crop Protection”** held at Post-graduate Department of Microbiology, Ponnaiyah Ramajayam College, Thanjavur, Tamil Nadu during 27th September, 2001.

26. 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 18th-20th January, 2001.
27. **“National Aquaculture Week 1997”** held at Indian Council of Agriculture Research and Aquaculture foundation of India. Neelankarai, Chennai, Tamil Nadu during 31st January - 01st February, 1997.
28. Workshop on **“Radiation Ecology”** held at Jamal Mohamed College, Tiruchirappalli, Tamil Nadu during 29-30th March, 1996.
29. Workshop on **“Application of Statistics in Biological Research”** held at Department of Animal Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu during 5th and 6th March, 1996.
30. Workshop on **“Chromatographic Techniques”** held at Kongunadu Arts College, Coimbatore, Tamil Nadu during 26-28th April, 1995.
31. Seminar on **“Solid Waste Management Programme”** held at EXNORA International, Bishop Heber College, Tiruchirappalli, Tamil Nadu during 1st April, 1995.

State Level: 03

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

Other Training Programs: 05

35. 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 24th October 2018 – 2nd November, 2018.
36. 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, 30th October - 3rd November, 2017.
37. Training Programme on **“Sustainable Shrimp Farming-Way Forward”**, TNFU, Chennai, Tamil Nadu, India during 13th and 14th June, 2014.

38. Training Course on “**Aspects of Remote sensing**”, held at Department of Geology, School of Geo Sciences, Bharathidasan University, Tiruchirappalli, Tamil Nadu, India during 26th-30th October 2006.
39. 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 3rd-12th 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 International conference on Recent trends in Microbiology (RTM-2016), Alagappa University, Karaikudi, Tamil Nadu, India.
2. 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 : 28

- Member of Board of Studies in Department of Zoology, Government Arts College for Women (Autonomous), Pudukkottai from 2022-2023.
- 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: 61

- 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 the 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 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 13th September 2022.

2. 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 20th & 21st of February 2020.
3. Delivered Invited talk on **“Techniques in Animal Science Research”** UGC- HRDC, Bharathidasan University, Khajamalai campus, Tiruchirappalli on 24th July 2019.
4. 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 13th October 2018.
5. Delivered Invited lecture on **“Innovations, Implementations and Challenges of Aquatic Biotechnology”** in Department of Biochemistry, Holy Cross college (Autonomous), Tiruchirappalli held on 11th September 2018.
6. 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 20th December 2017.
7. 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 14th July 2017.
8. Special talk on Convocation function in Government Arts and Science College, Peravurani held on 2nd April 2017.
9. Delivered a lecture on Founders day and College day celebration in Khadir Mohideen College, Adirampattinam, Thanjavur held on 26th March 2017.
10. Special talk on **“Iymperum Vizha”** in Government Women’s Arts College, Pudukottai held on 26th February 2017.
11. Delivered a lecture on **“Eco-Waste Management and Nanobiology”** in Sri G.V.G. Visalakshi College for Women, Udumalpet held on 20th October 2016.
12. Special talk on National Service Scheme in Jamal Mohamed College, Tiruchirappalli held on 4th August 2016.
13. Special talk in Key Note Address on **“National level conference on Better Environment and Better Future”** in Holy Cross College, Tiruchirappalli held on 2nd August 2016.
14. Special talk in Valedictory address on Science Camp under Inspire Internship Scheme in Nehru Memorial College, Puthunampatti, Tiruchirappalli held on 1-5th August 2016.
15. Special talk in Inaugural address on Faculty Development Program (FDP) on **“Revising Examination System in the Current Scenario”** in Nehru Memorial College, Puthunampatti, Tiruchirappalli held on 19th March 2016.
16. 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 9th March 2016.

17. Special talk on Convocation in Bharathidasan University Constituent Arts & Science College, Navalurkuttappattu, Srirangam, Tiruchirappalli held on 5th March 2016.
18. Special talk on UGC Sponsored Two-Day Seminar on **“Women in Public Administration”** in Department of Women Studies, Bharathidasan University, Tiruchirappalli held on 11th & 12th February 2016.
19. 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 22nd & 23rd January 2016.
20. Delivered an Invited lecture in National Workshop on **“Nanotechnology for Biologists”** in Department of Zoology, School of Life Sciences, Periyar University, Salem held on 6th – 8th January 2016.
21. Delivered a Graduation Address in 8th Graduation Day in Sri Bharathi College of Education, Kaikurichi, Pudukkottai held on 30th May 2014.
22. 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 17th March 2014.
23. Delivered a Graduation Address in 7th Graduation Day in Best Arts and Science College, Natham Road, Sattanathapuram, Sirkali held on 15th March 2014.
24. 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 22nd January, 2014.
25. Delivered a lecture on **“Fish Endocrine System”** in Department of Zoology, Periyar University, Salem held on 13th September 2013.
26. Delivered a lecture in CSIR sponsored National Seminar on **“Frontiers in Biotechnology”** in PG and Research Department of Biotechnology, Nehru Memorial College, Puthunampatti, Tiruchirappalli held on 9th August 2013.
27. Special talk on Convocation in Meenaakshi Ramasamy Arts and Science College, Thathanur, Udayarpalayam, Ariyalur held on 6th July 2013.
28. 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 2nd May 2013.
29. Delivered a lecture on **“Recent Trends in Aquatic Biotechnology”** in Department of Zoology, Nehru Memorial College, Puthunampatti, Tiruchirappalli held on 26th February 2013.
30. 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 11th January 2013.
31. Special talk on **“National Seminar cum Workshop on Molecular Informatics and Drug Designing”** in Department of Zoology, Thiagarajar College, Madurai held on 21st March 2012.

32. Delivered an Invited lecture about “**Green Synthesis in Nanotechnology**” in Department of Botany, Seethalakshmi Ramaswami College, Tiruchirappalli held on 7th January 2012.
33. Delivered a special Address in “**National Educational Day**” in Infant Jesus College of Education, K. Kallikudi, Tiruchirappalli held on 11th November 2011.
34. 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 30th September 2011.
35. Special talk on “**Probiotics**” in the Refresher Course-‘Recent trends in Life Science Research’ in Department of Immunology, Madurai Kamaraj University, Madurai held on 29th July 2011.

Others

1. Articles published in Newspapers / Magazines : **01**
2. Products developed : **xx**
3. No. of Ph.D Thesis evaluated : **34**
4. No. of Ph.D Public Viva Voce Examination conducted : **12**
5. Sequences submitted in GenBank : **07**

Recent Publications

Year 2022

1. 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)**
2. 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)**
3. 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)**
4. Prabhu Raju, Karthiyayini Balakrishnan, Monali Mishra, **Thirumurugan Ramasamy**, and Suganthy 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)**

5. 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)**
6. 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)**
7. 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)**
8. 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)**

Year 2021

9. 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)**
10. 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)**
11. 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)**

12. 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)**
13. 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)**
14. 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)**
15. **Thirumurugan Ramasamy**, Srinivasan Veeran, Arun Sridhar, Rajkumar Krishnasamy Sekar, Dinesh Babu Manikandan, Manikandan Arumugam, Subramanian Periyasamy, (2021), Effects of graded levels of mineral mixtures (Aquamin® and Agrimin®) supplemented diets on growth, survival, proximate composition, and carcass mineralization of juvenile freshwater prawn, *Macrobrachium malcolmsonii* (H Milne-Edwards 1844), **Tropical Animal Health and Production**, **(Impact factor 1.893)**

Year 2020

16. Dinesh Babu Manikandan, Manikandan Arumugam, Srinivasan Veeran, Arun Sridhar, Rajkumar Krishnasamy Sekar, Balaji Perumalsamy, **Thirumurugan Ramasamy**, (2020), Biofabrication of ecofriendly copper oxide nanoparticles using *Ocimum americanum* aqueous leaf extract: analysis of in vitro antibacterial, anticancer, and photocatalytic activities, **Environmental Science and Pollution Research**. **(Impact factor 5.190)**
17. Dhananjay Dey, Afnan Al-Hunaiti, Vinothini Gopal, Balaji Perumalsamy, Gowdhami Balakrishnan, **Thirumurugan Ramasamy**, Dhanasekaran Dharumadurai, Bhaskar Biswas, (2020), CH functionalization of alkanes, bactericidal and antiproliferative studies of a gold (III)-phenanthroline complex, **Journal of Molecular Structure**, 1222, 128919. **(Impact factor 3.841)**
18. Dinesh Babu Manikandan, Arun Sridhar, Rajkumar Krishnasamy Sekar, Balaji Perumalsamy, Srinivasan Veeran, Manikandan Arumugam, Parthiban Karuppaiah, **Thirumurugan Ramasamy**, (2020), Green fabrication, characterization of silver nanoparticles using aqueous leaf extract of *Ocimum americanum* (Hoary Basil) and investigation of its in vitro antibacterial, antioxidant, anticancer and photocatalytic reduction, **Journal of Environmental Chemical Engineering**, 104845. **(Impact factor 7.968)**

19. Arun Sridhar, Rajkumar Krishnasamy Sekar, Dinesh Babu Manikandan, Manikandan Arumugam, Srinivasan Veeran, **Thirumurugan Ramasamy**, (2020), Activity profile of innate immune-related enzymes and bactericidal of freshwater fish epidermal mucus extract at different pH, **Environmental Science and Pollution Research**, 1-13. **(Impact factor 5.190)**
20. Subrata Das, Sangharaj Diyali, Gopal Vinothini, Balaji Perumalsamy, Gowdhami Balakrishnan, **Thirumurugan Ramasamy**, Dhanasekaran Dharumadurai, Bhaskar Biswas, (2020), Synthesis, morphological analysis, antibacterial activity of iron oxide nanoparticles and the cytotoxic effect on lung cancer cell line, **Heliyon**, 6, e04953. **(Impact factor 3.776)**
21. Perumalsamy Balaji, Anbazhagan Murugadas, Arunachalam Ramkumar, **Ramasamy Thirumurugan**, Sellathamby Shanmugaapriya, Mohammad Abdulkader Akbarsha, (2020), Characterization of Hen's Egg White To Use It as a Novel Platform To Culture Three-Dimensional Multicellular Tumor Spheroids, **ACS omega**, 5, 31. **(Impact factor 4.132)**
22. Rajani Kanta Mahato, Ayan Kumar Mahanty, Suwendu Paul, Vinothini Gopal, Balaji Perumalsamy, Gowdhami Balakrishnan, **Thirumurugan Ramasamy**, Dhanasekaran Dharumadurai, Bhaskar Biswas, (2020), Catalytic oxidative coupling of o-phenylenediamine, in-vitro antibacterial and antitumor activities of a gold (III)-bipyridine complex, **Journal of Molecular Structure**, 1223, 129264. **(Impact factor 3.841)**
23. Arun Sridhar, Parvez Ahmed Khader, **Thirumurugan Ramasamy**, (2020), Assessment of cobalt accumulation effect on growth and antioxidant responses in aquatic macrophyte *Hydrilla verticillata* (Lf) Royle, **Biologia**, 1-8. **(Impact factor 1.653)**

Year 2019

24. Murugesan Sathiya Deepika, Ramar Thangam, Shenbagamoorthy Sundarraj, Thankaraj Salammal Sheena, Srinivasan Sivasubramanian, Jeganathan Kulandaivel, **Ramasamy Thirumurugan**, (2019), Co-delivery of Diverse Therapeutic Compounds Using PEG-PLGA Nanoparticle Cargo against Drug-Resistant Bacteria: An Improved Anti-biofilm Strategy, **ACS Applied Bio Materials**, 3, 385-399.
25. Krishnasamy Sekar Rajkumar, Sridhar Arun, Manikandan Dinesh Babu, Perumalsamy Balaji, Srinivasan Sivasubramanian, Venkatasamy Vignesh, **Ramasamy Thirumurugan**, (2019), Facile biofabrication, Characterization, evaluation of photocatalytic, antipathogenic activity and in vitro cytotoxicity of zinc oxide nanoparticles, **Biocatalysis and Agricultural Biotechnology**, 22, 101436.
26. Rajkumar KS, Arun S, Balaji P, Dineshbabu M, **Thirumurugan R**, (2019), In vitro antioxidant, antipathogenicity and cytotoxicity effect of silver nanoparticles fabricated by onion (*Allium cepa*.L) peel extract, **Journal of BioNanoScience**, 1-14.

27. Chengyue Liu, Jian Ge, Yangen Zhou, **Ramasamy Thirumurugan**, Qinfeng Gao, Shuanglin Dong, (2019), Effects of decreasing temperature on phospholipid fatty acid composition of different tissues and hematology in Atlantic salmon (*Salmo salar*), **Aquaculture**, Vol 515,734587. **(Impact factor 5.135)**
28. Murugesan Sathiya Deepika, Ramar Thangam, Tharumasivam Siva Vijayakumar, Rajendran Sasirekha, RTV Vimala, Srinivasan Sivasubramanian, Sridhar Arun, Manikandan Dinesh Babu, **Ramasamy Thirumurugan**, (2019), Antibacterial synergy between rutin and florfenicol enhances therapeutic spectrum against drug resistant *Aeromonas hydrophila*, **Microbial Pathogenesis**. **(Impact factor 3.848)**
29. Murugesan Sathiya Deepika, RamarThangam, Thankaraj Salammal Sheena, R.T.V.Vimala, Srinivasan Sivasubramanian, Kulandaivel Jeganathan, **Ramasamy Thirumurugan**, (2019), Dual drug loaded PLGA nanospheres for synergistic efficacy in breast cancer therapy, **Materials Science and Engineering: C**, Vol. No: 103, 109716. **(Impact factor 7.328)**
30. Murugadas A, Mahamuni D Shrinithiviahshini D.N, Thamaraiselvi K, **Thirumurugan R**, Akbarshad M.A, (2019), Hydra as an alternative model organism for toxicity testing: Study using the endocrine disrupting chemical Bisphenol A, **Biocatalysis and Agricultural Biotechnology** 17, 680–684.
31. Musthafa M, Aneesrahman K.N, Perumalsamy B, **Thirumurugan R**, Ganguly R. and Sreekanth A, (2019), Synthesis, crystal structure, DFT studies, in vitro and in silico molecular docking of novel bis (aroyl selenourea) derivatives, **Journal of Molecular Structure**. **(Impact factor 3.841)**

Year 2018

32. Sathiya Deepika M, Thangam R, Sheena TS, Sasirekha R, Sivasubramanian S, Dinesh Babu M, Jeganathan K, **Thirumurugan R**, (2018), A novel rutin-fucoidan complex based phytotherapy for cervical cancer through achieving enhanced bioavailability and cancer cell apoptosis, **Biomedicine and Pharmacotherapy**, Vol. 109, 1181-1195, **(Impact Factor: 7.419)**.
33. Vignesh V, Sathiyarayanan G, Parthiban K, Sathish Kumar K, **Thirumurugan R**, (2018), Functional assessment of subtilisin A against *Aeromonas* spp. causing gastroenteritis and hemorrhagic septicaemia, **Indian Journal of Biotechnology**, Vol. 17,27-32, **(Impact Factor: 0.324)**.
34. Sathiya Deepika M, Thangam R, Sakthidhasan P, Arun S, Sivasubramanian S, **Thirumurugan R**, (2018), Combined effect of a natural flavanoid rutin from *Citrus sinensis* and conventional antibiotic gentamicin on *Pseudomonas aeruginosa* biofilm formation, **Food Control**, Vol. 90, 282-294. **(Impact Factor: 6.652)**.

Year 2017

35. **Thirumurugan R**, Arun S, Rajkumar KS, Sathya Deepika M, (2017), Analysis of biochemical and nutritional constituents of different size groups of *Macrobrachium malcolmsonii* (Milne Edwards, 1844) (Decapoda: Palaemonidae) for the identification of its nutritional requirements, **Brazilian Journal of Biological Sciences**, Vol. 4/8, 307-316.

Year 2016

36. Murugan C, Rayappan K, Thangam R, Bhanumathi R, Shanthi K, Vivek R, **Thirumurugan R**, Bhattacharyya A, Sivasubramanian S, Gunasekaran P, Kannan S, (2016), Combinatorial nanocarrier based drug delivery approach for amalgamation of anti-tumor agents in breast cancer cells: an improved nanomedicine strategy, **Scientific Reports**, Vol. 6, 34053. **(Impact Factor: 4.996)**
37. Zhou Y, **Thirumurugan R**, Wang Q, Lee CM, Davis A, (2016), Use of dry hydrolysate from squid and scallop product supplement in plant based practical diets for Pacific white shrimp *Litopenaeus vannamei*, **Aquaculture**, Vol. 465, 53-59. **(Impact Factor: 5.135)**

Year 2015

38. Parthiban K, Vignesh V, Nilmini V, **Thirumurugan R**, (2015), A statistical approach on optimization of exopolymeric substance production by *Halomonas sp.* S19 and its emulsification, **Bioresources and Bioprocessing**, Vol. 2, 48. **(Impact factor 4.983)**
39. Gunaseelan K, Balaji K, Kanipandian N, Rajkumar KS, Nilmini V, **Thirumurugan R**, (2015), Biogenic synthesis and spectroscopic characterization of silver nanoparticles using leaf extract of *Indoneesiella echioides*: in vitro assessment on antioxidant, antimicrobial and cytotoxicity potential, **Applied Nanoscience**. DOI 10.1007/s13204-015-0514-7. **(Impact Factor: 3.869)**
40. Vasanth S, Arul G, Karthikeyeni S, Siva Vijayakumar T, Vignesh V, Manimegalai M, Bupesh G, **Thirumurugan R**, Subramanian P, (2015), Influence of Triazine herbicide exposure on guppies (*Poecilias phenops*) aromatase activities, altered sex steroid concentration and vitellogenin induction, **Indian Journal of Pharmaceutical Sciences**, Vol. 77/2, 156-162. **(Impact Factor: 0.975)**
41. Senthilkumar PK, **Thirumurugan R**, Jayachitra A, Dhvani KD, Divya AA, (2015), GST M1-T1 null allele frequency patterns in geographically assorted human populations: a phylogenetic approach, **PLOS ONE**, 1-19. **(Impact Factor: 3.752)**
42. Vignesh V, Sathiyarayanan G, Sathishkumar G, Parthiban K, Sathish-Kumaran K, **Thirumurugan R**, (2015), Formulation of iron oxide nanoparticles using exopolysaccharide: evaluation of their antibacterial and anticancer activities, **RSC Advances**, Vol. 5, 27794-27804. **(Impact Factor: 4.036)**

43. Rajkumar KS, Kanipandian N, **Thirumurugan R**, (2015), Toxicity assessment on haematology, biochemical and histopathological alterations of silver nanoparticles-exposed freshwater fish *Labeo rohita*, **Applied Nanoscience**, DOI 10.1007/s13204-015-0417-7. **(Impact Factor: 3.869)**

Year 2014

44. Senthilkumar KP, **Thirumurugan R**, (2014), Risk Modulation of GSTM1 - GSTT1 interactions to Head and Neck Cancer in tobacco users, **Molecular Biology Reports**, Vol. 41/9, 5635-5644. **(Impact Factor: 2.742)**
45. Anbazahan S, Shanthi Mari L, Yogeshwari G, Jagruthi C, **Thirumurugan R**, Arockiaraj JA, Antony Joseph Velanganni, Krishnamoorthy P, Chellam Balasundaram, Harikrishnan R, (2014), Immune response and disease resistance of carotenoids supplementation diet in *Cyprinus carpio* against *Aeromonas hydrophila*, **Fish and Shellfish Immunology**, Vol. 40, 9-13. **(Impact Factor: 4.622)**
46. Shanthi Mari L, Jagruthi C, Anbazahan S, Yogeshwari G, **Thirumurugan R**, Arockiaraj J, Mariappan P, Chellam Balasundaram, Harikrishnan R, (2014), Protective effect of chitin and chitosan enriched diets on immunity and disease resistance in *Cirrhinus mrigala* against *Aphanomyces invadans*, **Fish and Shellfish Immunology**, Vol. 39, 378- 385. **(Impact Factor: 4.622)**
47. Parthiban K, VigneshV, **Thirumurugan R**, (2014), Characterization and in vitro studies on anticancer activity of exopolymer of *Bacillus thuringiensis* S13, **African Journal of Biotechnology**, Vol. 13, 2137-2144.
48. Thangam R, Sathuvan M, Poongodi A, Suresh V, Pazhanichamy K, Sivasubramanian S, Kanipandian N, Nalini G, Rengasamy R, **Thirumurugan R**, Kannan S, (2014), Activation of intrinsic apoptotic signaling pathway in cancer cells by *Cymbopogon citratus* polysaccharide fractions, **Carbohydrate Polymers**, Vol. 107, 138-150. **(Impact Factor: 10.723)**
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