

## PROFORMA FOR BIO-DATA

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### 1. Academic Qualification (Undergraduate Onwards)

Degree	Year	Subject	Institution	University
Ph.D.	2005	Zoology	Periyar EVR College, Tiruchirappalli.	Bharathidasan University, Trichy.
M.Sc.	1997	Zoology	Jamal Mohamed College, Trichy.	Bharathidasan University, Trichy.
B.Sc.	1994	Zoology	A.A. Govt. Arts College, Musiri.	Bharathidasan University, Trichy.

### 2. Work experience

S. No.	Position held	Name of the Institute	From	To
1.	Assistant Professor	C. Abdul Hakeem College, Melvisharam	03.09.2007	31.07.2018
2.	Associate Professor & Head	C. Abdul Hakeem College, Melvisharam	01.08.2018	Till date

### 3. Professional Recognition / Award / Prize / Certificate, Fellowship received by the applicant

S. No.	Name of Award	Awarding Agency	Year
1.	National Award for Best Presentation	Science Per Second publisher, National Science journal, Pudukkattai, Tamilnadu.	2010

### 4. Research

#### 4.1. List of Papers published

1. Kumar, M. and Rafi Mohamed, R., 2022. Effect of Probiotic Bacteria on the Xenobiotics Degradation Using Freshwater Fish *Catla Catla* Journal of Research in Agriculture and Animal Science 9 (9), 51-56.
2. Kalaivanan.A, Baskaran.C, Rafi Mohamed R., 2021. Probiotics effects on serum biochemical and hematological parameters of chick induced with *Salmonella*

*typhimurium*. GIS Science Journal. ISSN NO: 1869-9391, Vol 8, Issue 9, 2021, Page No. 978 – 994.

3. A. Zahira., K. Thamilmani., R. Rafi Mohamed., M. Mohamed Sahinsha. 2018. Molecular docking studies of the selected phytoconstituents of piper nigrum linn.against fish bacterial pathogen, *Aeromonas hydrophila*. International journal of Research and Analytical Reviews. E-ISSN 2348-1269.
4. A. Zahira., K. Thamilmani., R. Rafi Mohamed., M Mohamed Sahinsha., 2018. Phytochemical Analysis, Evaluvation of Bioactive Compound in Piper Nigrum Linn. And Interaction stuidies of piprine with *Aeromonas hydrophila* (aerA). Journal of Emerging Technologies and Innovative Resaech. ISSN-2349-5162.
5. George John., Razack Rafi Mohamed., Pachaan Kolanchinathan., Athmanathan Balasundaram., 2018. Nutritional Value of Two Bacterial Strains *Bacillus subtilis* RCMB21 and *Pseudomonas fluorescens* RCMB39 as Feed Supplement for Freshwater Prawn *Macrobrachium malcolmsonii*. Asian Journal of Animal and Veterinary Advances. DOI: 10.3923/ajava.2018.282.294.
6. A. Zahira., K. Thamilmani., R. Rafi Mohamed. 2016. Phytochemical Profiling and Molecular Docking Analysis of *Piper nigrum*. L Against Ornamental Fish Diseases. American Journal of Biological and Pharmaceutical Research. e-ISSN - 2348-2184.
7. A. Zahira., K Thamilmani., R. Rafi Mohamed. 2016. Phytochemical Screening and GC-MS Profiling of *Piper nigrum* L. World Journal of Pharmaceutical Research. DOI: 10.20959/wjpr20165-6075.
8. Abdul Abduz Zahir., Abdul Abdul Rahuman., Asokan Bagavan., Thirunavukkarasu Santhoshkumar., Razack Rafi Mohamed., Chinnaperumal Kamaraj., Govindasamy Rajakumar., Gandhi Elango., Chidambaram Jayaseelan., Sampath Marimuthu., 2010. Evaluation of botanical extracts against *Haemaphysalis bispinosa* Neumann and *Hippobosca maculata* Leach. Parasitol Research. DOI 10.1007/s00436-010-1898-7.
9. P. Sivakumar., R. Rafi Mohamed., George John., K. Vijayaraman., 2002. Phytoremediation: I. Removal and recovery of lead and zinc from dyeing wastes by a alfalfa biomass. Asian Journal of Microbiology, Biotechnology & Environmental Sciences Paper. Vol 04, Issue 1, 2002; (113-118).
10. Vijayaraman. K., George John., P. Sivakumar., R. Rafi Mohamed., 1999. Uptake and loss of heavy metals by the freshwater prawn, *Macrobrachium malcolmsonii*. Journal of Environmental Biology. 20(3):217-222.

11. George John., K. Vijayaraman., P. Sivakumar., R. Rafi Mohamed., 1998. Observation on the life history and breeding behaviour of *Macrobrachium malcolmsonii* of the River Cauvery. Fishing chimes. Vol. 18 No 2.
12. Vijayaraman K., George John., P. Sivakumar., R. Rafi Mohamed. 1998. Accumulation and depuration of heavy metals by Freshwater prawn *Macrobrachium malcolmsonii* (Milne Edwards). Indian journal of Experimental Biology. 36(11):1120-1124
13. Vijayaraman., K, George John., P. Sivakumar., R. Rafi Mohamed. 1997. Sodium nitrite induced alteration in the blood profile of the freshwater fish, *Mastacembelus armatus*. Journal of Freshwater Biology. 9(3-4). 178-183 1997.

#### 4.2. Detail of patents.

Nil.

#### 4.3. List of Books / Reports / Chapters / General articles etc.

1. Razack Rafi Mohamed, Ambrose Paulraj, Narasiman Manickam 2023. Probiotic effect on Chick Induced with *Salmonella typhimurium* - A Review. Lambert Academic Publishing. ISBN: 978-620-7-45142-5.
2. **Razack Rafi Mohamed**, Narasimman Manickam and Ambrose Paulraj 2024. Probiotics in fish cultivation: An innovative Approach. LAP - LAMBERT Academic Publishing. Page: 1-92. ISBN-10: 6207467205; ISBN-13: 978-6207467204.
3. Ambrose Paulraj, Narasimman Manickam and **Razack Rafi Mohamed** 2024. Shrimp culture of zero water exchange practices. LAP - LAMBERT Academic Publishing. Page: 1-129. ISBN: 978-620-7-80834-2.
4. Paulraj, A., Manickam, N., **Mohamed, R.R.**, Vasumathi, C., Bhuvaneswari, R (2024). Comparative studies on ground water quality of Krishnagiri, Tiruvannamalai, and Vellore Districts of Tamil Nadu, India. Springer Nature. 139-157. ISBN: 978-3-031-62079-9. [https://doi.org/10.1007/978-3-031-62079-9\\_8](https://doi.org/10.1007/978-3-031-62079-9_8).
5. **Mohamed, R.R.**, Manickam, N., Paulraj, A., Bhuvaneswari, R (2024). An Investigation of Coastal Water Quality and SEMBV Disease in *Penaeus monodon* in Coastal Southern India. Springer Nature. 159-171. ISBN: 978-3-031-62079-9. [https://doi.org/10.1007/978-3-031-62079-9\\_9](https://doi.org/10.1007/978-3-031-62079-9_9).
6. Bhuvaneswari, R., Manickam, N., Paulraj, A., **Mohamed, R.R** (2024). Heavy Metal Accumulation and Health Risk Assessment in the Puddles of Virudhunagar District,

Tamil Nadu, India. Springer Nature. 173-194. ISBN: 978-3-031-62079-9. [https://doi.org/10.1007/978-3-031-62079-9\\_10](https://doi.org/10.1007/978-3-031-62079-9_10).

7. Manickam, N., **Mohamed, R.R.**, Paulraj, A., Bhuvaneswari, R., Devi, A.S., Ashokan, V., Vijayadevan, K., Rebecca, A.A., Gunabal, S., Sridhar, P., Aravinth, A., Mohan, B., Santhanam, P. Bhavan, P.S (2024). Water quality evaluation, reservoir management, and zooplankton monitoring in the Dharmapuri District, Tamil Nadu, India. Springer Nature. 195-223. ISBN: 978-3-031-62079-9. [https://doi.org/10.1007/978-3-031-62079-9\\_11](https://doi.org/10.1007/978-3-031-62079-9_11).
8. Thirumeni, M.A., Yashkamal, K., Mohamed, R.R., Shivakumar, M.S. (2024). Entomopathogenic Fungi as Biopesticides for Sustainable Agriculture. In: Deshmukh, S.K., Sridhar, K.R. (eds) Entomopathogenic Fungi. Springer, Singapore. [https://doi.org/10.1007/978-981-97-5991-0\\_4](https://doi.org/10.1007/978-981-97-5991-0_4).

#### **4.4. List of Paper Presentations in National / International Conference**

1. M. Anbarasan, R. Rafi Mohamed (2022) Isolation and identification of probiotics and their impact on growth and development of shrimp agriculture (OP-07) in National seminar on Disease Progression and Treatment Strategies at Department of Animal Science, School of Life Sciences, Bharathidasan University, Tiruchirappalli.
2. N. Kumar, R. Rafi Mohamed (2022) Role of Probiotics in fish cultivation: An innovative approach (OP-16) in National seminar on Disease Progression and Treatment Strategies at Department of Animal Science, School of Life Sciences, Bharathidasan University, Tiruchirappalli.
3. Nazar. A.R, K. Raja and R. Rafi Mohamed, (2020) An assessment of pond reared *Litopenaeus vannamei* (Boone) sperms and the effect of sunlight on it's vaibility (AB-19-OP). Periyar E.V.R. College, Tiruchirappalli, Tamil Nadu.
4. R. Rafi Mohamed., (2010). A Study on Gut Microflora of *Macrobrachium malcolmsonii* in (H. Milne Edwards) (Curstacea: Pacaeomonidea) and their prospects as probiotics in prawn farming. Science Pre Second publisher, National Science journal, Pudukkattai, Tamil Nadu.
5. R. Rafi Mohamed., R. Priyadarsini., P. Sivakumar., George John., K. Vijayaraman., (2003). Gastrointestinal Microflora of the Common Carp, *Cyprinus carpio*, and their Probiotic Prospects. National level seminar on "Global Strategies in Biological Sciences", Muthaiammal College of Arts & Science, Rasipuram.
6. P. Sivakumar., R. Rafi Mohamed., K. Vijayaraman., George John., (2003). Remediation of Karur Dye House wastes using Biological Options. National level

seminar on "Global Strategies in Biological Sciences", Muthaiammal College of Arts & Science, Rasipuram.

#### **4.5. List of Conference / Webinar / Symposium/ Workshop Attended**

1. Participated in 5 steps to successfully execute your goals in our exclusive program conducted on 18<sup>th</sup> May 2024 held through online zoom meeting.
2. Participated on Biotechnology Advancements in Health Sciences organised by the Department of Biotechnology, Faculty of Science and Humanities, SREM Institute of Science and Technology, Tamapuram, Chennai on 23<sup>rd</sup> May 2024.
3. Biozone 2021 A virtual International Conference on “Emerging infectious Diseases and Nanotherapeutics [EIDN]” held on 30th October 2021, Organised by Sacred Heart College (Autonomous) Tirupattur.
4. E – Training on “Recent Advance in Aquatic Animal Health & Environment Management for Sustainable Aquaculture” held on 31st August to 10th September 2021, organised by College of Fisheries, Guru Angad Dev Veterinary and Animal Science University (GADVASU), Ludhiana, Punjab, India. Under the ICAR-NFDB (NSPAAD) Project funded by DOF, MoFAHD, Govt. of India.
5. Two days National level webinar on “Aquaculture Production: Advances and Constraints” held on September 31th and October 1th 2021 Organised by the Department of Zoology, Nirmala College for women, Coimbatore.
6. International Webinar on Advanced Scanning & Transmission Electron Microscopy 2021 (i-WASTEM 2021) held on 4th September 2021. Organised by University of Tunku Abdul Rahman, Kampar, Malaysia.
7. National level Webinar on ‘Freshwater Ornamental fish Breeding & Shrimp Culture of L. vannamei’ held on 13th August 2021, Organised by Marsco Aqua Clinics – Aqua One Centre.
8. Virtual Lecture Workshop on “Sustainable Aquaculture Technologies (SAT-2021)” held on 9th to 14th August 2021 organised by Department of Marine Science, School of Marine Science, Bharathidasan University, Tamil Nadu.
9. Four Day International Conference on Examination – Idea 2021 “International Debate on Examination & Assessment – 2021” held on 8th to 11th June 202. Organised by Council of Examiners – India and SkillSlate Foundation, Pune and in associate with InoIdae and Gniot Institute of Management, UP.

10. Seven Day E-Workshop “Entrepreneurial Skill Development and Career Opportunities in Biological Science” held on 24th to 30th June 2021, Organised by Department of Zoology and Biotechnology, Govt. Girls’ P.G. College, Ujjain (MP).
11. Two-day National level student development program on the topic of "EMPLOYMENT PROGRAM" held on 27 - 28th May (2021), organized by HKBK Degree College affiliated to Bangalore North University, Bangalore 560045.
12. International Conference on “Sustainable Management and Conservation of National Resources” held on 15th February (2020), organized by P.G. & Research Department of Zoology, Periyar E.V.R College (Autonomous) Tiruchirappalli, Tamil Nadu.
13. National Youth Science Conference for “Sustainable Development” held on 28th February (2020), organized by Bose Science Society, Pudukkottai, Tamil Nadu, Association with Pushkarram College of Agriculture Science, Pudukkottai and GTN Arts College, Dindigul, Tamil Nadu.
14. National Workshop on "Skill Building: Creating & Empowering Leaders of Tomorrow" held on 28, 29 August and 3, 4 September (2020), organized by Kannada Sangh Pune's Kaveri College of Arts, Science & Commerce, Pune association with Skillslate & MKCL, Pune.
15. National Conference on Recent Scenario of Climatic Changes on Environment and Biodiversity (RSCCEB-18), held on 11th January (2018), organized by Voorhees College, Vellore, Tamil Nadu, India.
16. National Symposium on Recent Scenario of Environmental Pollution in India - (NSRSEPI- 2017), held on 5th October (2017), organized by Thiruvalluvar University, Vellore, India.
17. Challenges faced by Autonomous Colleges as Harbingers of Quality Need Based Education through Innovative Academic Strategies, held on 4 - 5th April (2016), organized by C. Abdul Hakeem College (Autonomous) Melvisharam, Tamil Nadu.
18. National Conference on “Futuristic Bioscience and Research”, held on 18 - 20th November (2004), organized by Holy Cross College, Trichy, Tamil Nadu.
19. National Symposium on Reproductive Biology and Comparative Endocrinology” held on 7th September (2002), organized by Dept. of Animal Science, Bharathidasan University, Tiruchirappalli.
20. Municipal Waste water and solid treatment technology, held on 2nd March (1999), organized by K.N. Govt. Arts College for women, Thanjavur, Tamil Nadu.
21. Training Programme in Freshwater prawn culture, held on 16 & 17th October (1999), organized by Research Dept. of Zoology, Periyar EVR College, Trichy, Tamil Nadu.

22. Prospects of Biotechnology in the New Millennium, held on 16 & 17th November (1999), organized by Dept. of Biotechnology, Cochin University, Kerala, India.
23. Conservation of Bioresource Tamil Nadu State council for Science and Technology - Chennai. held on 19 - 20th December (1997), organized by A.A. Govt. Arts College, (Men) P.G. and Research Dept. of Botany, Namakkal, India.
24. Workshop on Radiation Ecology, Board of Research in Nuclear Science. Department of Atomic Energy, Govt. of India. held on 29 - 30th March (1996), organized by Environmental Research Laboratory, PG Dept. of Zoology, Jamal Mohamed College, Trichy, India.
25. Workshop on Radiation Ecology, Board of Research in Nuclear Science. Department of Atomic Energy, Govt. of India. held on 29 - 30th March (1996), organized by Environmental Research Laboratory, PG Dept. of Zoology, Jamal Mohamed College, Trichy, India.

#### **4.6. List of Conference / Seminar / Workshop Organized**

1. Chairman for three days International Conference on Environmental Conservation & Sustainability - A Biological Perspective (ECS-B) organised by PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous], Melvisharam, Tamil Nadu on 18-20 December, 2024.
2. Advisory Committee Member for DBT- Sponsored National Workshop on Hands on Training on Fish Cell Culture Techniques: Development and Applications. Held on 22.07.2024 - 27.08.2024, organized by C. Abdul Hakeem College [Autonomous], Melvisharam, Tamil Nadu.
3. Convener for “National Science Day” 2<sup>nd</sup> State-level Intercollegiate Colloquium FIMZoo 2024 organised by PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous], Melvisharam, Tamil Nadu held on 24<sup>th</sup> February 2024.
4. Convener for “Importance of Internship Training for Research” Special talk organised by PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous], Melvisharam, Tamil Nadu held on 9<sup>th</sup> March 2023
5. Convener for “National Science Day” 1<sup>st</sup> State-level Intercollegiate Colloquium FIMZoo 2024 organised by PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous], Melvisharam, Tamil Nadu held on 18<sup>th</sup> February 2023.
6. Advisory Committee Member for DBT- Sponsored National Workshop on Hands on Training on Fish Cell Culture Techniques: Development and Applications. Held on

- 22.03.2021 - 27. 03.2021, organized by C. Abdul Hakeem College [Autonomous], Melvisharam, Tamil Nadu.
7. Advisory Committee Member for DBT- Sponsored National Workshop on Hands on Training on Fish Cell Culture Techniques: Development and Applications. Held on 25.01.2021 - 27.01.2021, organized by C. Abdul Hakeem College [Autonomous], Melvisharam, Tamil Nadu.
  8. Advisory Committee Member for DBT- Sponsored National Workshop on Hands on Training on Fish Cell Culture Techniques: Development and Applications. Held on 25.01.2021 - 27.01.2021, organized by C. Abdul Hakeem College [Autonomous], Melvisharam, Tamil Nadu.
  9. Convener for National webinar on “Statistics - A Magical Tool for Biologists” held on 29.01.2021, organised by C. Abdul Hakeem College [Autonomous], Melvisharam, Tamil Nadu.
  10. Convener for International Webinar on "My Research Journey" held on 29.12.2020, organised by C. Abdul Hakeem College [Autonomous], Melvisharam, Tamil Nadu.
  11. Chairman for National Level Seminar on Biodiversity Conservation: Current Trends and Future Challenges (BCFC 2020) held on 25.02.2020, organized by C. Abdul Hakeem College [Autonomous], Melvisharam, Tamil Nadu.
  12. Convener for National Seminar on Emerging Trends in Bio-Environmental Technologies (NSET-BET-2018) held on 11.10.2018 organized by C. Abdul Hakeem College [Autonomous], Melvisharam, Tamil Nadu.
  13. National Seminar on Recent Trends in Biological Research conducted as organizing member held at PG & Research Department of Zoology, C. Abdul Hakeem College [Autonomous] during 8th March, 2016.
  14. 10 Days, National Level Online Faculty Development Programme on 'Recent Trends in Education, Technology & Management' held on 30-07-2021 to 08-08-2021. Organised by Milagres College, Kallianpur & GFGC Kavour, Mangalore, India.

#### **4.7. List of Orientation / Refresher / Short Term Course Attended**

1. Attended the Orientation Programme, Batch – 108 conducted by the University Grant Commission, Academic Staff College, University of Madras, Chennai from 20.11.2012 - 17.12.2012.
2. Attended the Refresher Course in Life Science, Batch 12 conducted by the University Grant Commission, Academic Staff College, University of Madras, Chennai from 12.11.2014 to 02.12.2014.



3. Attended the Refresher Course in Life Science (Interdisciplinary), Batch 13 conducted by the University Grant Commission, Human Resource Development Centre (HRDC) and Regional Centres for Capacity Building (RCCB) University of Madras, Chennai from 15.09.2016 to 05.10.2016.
4. Attended the Online Refresher Course on “Research Methodology: Tools and Technique”. Organised by University Grant Commission, Human Resource Development Centre, Mizoram University, held on 07.07.2020 to 20.07.2020.
5. “Training Programme on Academic Leadership” conducted by the Centre of Academic Leadership and Education management Aligarh Muslim University, Aligarh. and Islamiah College (Autonomous), New town, Vaniyambadi, Tamilnadu. From 07.09.2018 to 14.09.2018.
6. Attended the Online Refresher Course in Biotechnology, conducted by the UGC - Human Resource Development Centre, University of Calicut. Held on 16.09.2021 -29.09.2021.
7. Attended the Online NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of UGC, organized by the Malaviya Mission Teacher Training center (MMTTC) University of Calicut. Held on 22.01.2024 to 01.02.2024.

#### **4.8. List of Faculty Development Program Attended**

1. Seven-day Faculty Development Program on "Moodle Learning Management System", held on 08 - 14th June (2020), organized by National Mission on Education through ICT, MHRD, Govt. of India and Auxilium College (Autonomous), Gandhi Nagar, Vellore, Tamil Nadu, association with Spoken Tutorial Project, IIT Bombay, India.
2. Three-day Faculty Development Program on Application of Molecular Technique in Biomedical Research, held on 29 - 31th July (2020), organized by RUSA 2.0 - Entrepreneurship & Career Hub, University of Madras, Chennai.
3. Seven-day Faculty Development Program on " The Role of a Teacher in Nation Building", held on 3 - 9th August (2020), organized by Keshav Memorial Institue of Commerce and Sciences, Hyderabad, Telangana, India. In Collaboration with ICSSR - SRC Ministry of Human Resource Development, New Delhi.
4. Seven-day Entrepreneurship Skill Development Online Course on Ornamental Fishes - Production, Trade and Technology Transfer, held on 3 - 9th August (2020), organized by Kongunadu Arts & Science College (Autonomous), Coimbatore, Tamil Nadu, India.

5. One Week Online International Faculty Development Programme on "ICT Based Teaching and Learning Practices in Higher Education" held on 17 - 23th August (2020), organized by Internal Quality Assurance cell (IQAC), Govt. Lahiri P.G. College, Chirimiri, Koriya (C.G.) India.
6. One Week Online International Faculty Development Programme on “ Factes of Teaching” Held on 14th to 20th June 2021, Organised by Centre for National International Academic Collabarations, Tamil Nadu Teachers Education University, Chennai in association with Lakshmi College of Education, Gandhigram, Dindigul.
7. One-week Online Faculty Development Programme on “Research Prospects and progress in Biological Science (RPPB - 2022). During 04.07.2022 to 10.07.2022 conducted by SRM Institute of Science and Technology, Ramapuram Campus, Chennai.

#### **5. Position in our College and University**

1. Head of the Department.
2. PG Board of studies member in Thiruvalluvar University.
3. Convener of Zoology Association.
4. Academic council Member of C. Abdul Hakeem College.
5. Chairman for UG & PG evaluation board committee in C. Abdul Hakeem College.
6. Chairman for Board of study for UG and PG course in C. Abdul Hakeem College.
7. Library Advisory Committee Member in C. Abdul Hakeem College.
8. Minorities and OBC cell Committee Member in C. Abdul Hakeem College.
9. Curriculum Development Committee Member in C. Abdul Hakeem College.