

1. Full name of the faculty member: Dr T. Jawahar Abraham

2. Designation: Professor

3. Specialisation: Microbiology

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5. Academic qualifications: MFSc., PhD

College/university from which the degree was obtained	Abbreviation of the degree
Fisheries College, Tamil Nadu Agricultural University	BFSc
College of Fisheries, University of Agricultural Sciences	MFSc
ManonmaniamSundaranar University	PhD

6. Positions held/ holding or Work Experience: Assistant Professor to Professor: 38 years

7. Awards:

AWARDS, FELLOWSHIPS AND ACADEMIC HONOURS	
2025	World's Top 5% Scientists by Global Scientist Index 2025 – Top 5% Scientists, Global Scientific Index & Scientist Ranking, https://scirankglobal.org/
2022	Fellow, Inland Fisheries Society of India (FIFSI), Barrackpore, Kolkata
2020	Research Excellence Award-2020: Awarded during the InSc Awards 2020 by the Institute of Scholars (InSc), Bengaluru - 560091, Karnataka
2017	Excellent Researcher Award in Fishery Sciences-2017: Awarded during the PEARL Foundation Educational Excellence Awards to Higher Education in India 2017 by the PEARL Foundation, Madurai
2017	Outstanding Paper Award-2017 during the 2 nd Regional Science and Technology Congress (Southern Region), 2017 by the University of Kalyani and Department of Higher Education, Science and Technology and Biotechnology, Govt of West Bengal, Kolkata
2017	Fellow, Zoological Society of India (FZSI), Bodh Gaya, Bihar
2017	Outstanding Faculty of the Year-2017: Awarded during the 5 th Faculty Branding Awards 2017 by the Educationexpo TV, Research and Branding Company, Noida
2016	Best Teacher Award-2016 of the West Bengal University of Animal and Fishery Sciences, Kolkata
2016	Best Teacher Award-2016 (above 45 years category) of the Faculty of Fishery Sciences, West Bengal University of Animal and Fishery Sciences, Kolkata
2016	Best Parent Award-2016 of the West Bengal University of Animal and Fishery Sciences, Kolkata
2015	Best Research Paper Award-2015 for a research article published in Aquaculture Times
2012	Dr C.M. Singh Best Research Paper Award-2012 for a research article published in the IAVMI Journal, 2012
2010	Best Research Paper Award-2010 in 'Fishery Science Section' of 17 th West Bengal State Science and Technology Congress, Kolkata
2010	National Science Day Award-2010 in recognition of contribution to the field of Scientific R & D in Fisheries by The Science Association of Bengal, Kolkata
2008	Best Poster Paper Award-2008, International Seminar held at TANUVAS, Chennai
2003 –	Best Teacher Award: 2003-2011, Certificate of Appreciation by the Professional Fisheries

2011	Graduates Forum, Mumbai, India
1997	Eureka Forbes Award-1997 for Best Scientific Research Paper, TNAU, Coimbatore
1995	Eureka Forbes Award-1995 for Best Scientific Research Paper, SMS, CUSAT, Cochin
1993	Best Scientific Research Paper Award-1993, AFSIB, Mangalore
1993	Best Poster Paper Award-1993, IFCON-93, CFTRI, Mysore
1990	Young Scientist Award-1990 by AFSIB, College of Fisheries, Mangalore
1990	Senior Research Fellowship Award by ICAR, New Delhi in 1990
1986	Junior Research Fellowship Award by ICAR, New Delhi in 1986

8. Other notable activities: Externally funded projects

- ✓ **Principal Investigator**, TANUVAS-funded scheme, *Effect of plant protease inhibitors on the quality of fish mince at refrigerated storage*, Rs 20,000 total cost, 1990-92.
- ✓ **Principal Investigator**, TANUVAS-funded scheme, *Studies on microflora associated with prawn pickle*, Rs 40,000 total cost, 1990-1993.
- ✓ **Principal Investigator**, TANUVAS-funded scheme, *Studies on drug-resistant bacteria from shrimp farming system*, Rs 25,000 total cost, 1993-1996.
- ✓ **Principal Investigator**, Government of Tamil Nadu funded scheme, *Strengthening the Microbiology Unit of Department of Fish Processing Technology, FCRI, Tuticorin*, Rs. 12.61 lakh, 1997-1998.
- ✓ **Principal Investigator**, Indian Council of Agricultural Research, New Delhi, funded scheme, *Use of probiotics in freshwater aquaculture*, Rs. 12.726 lakh, 2001-2004
- ✓ **Principal Investigator**, National Agricultural Technology Project, ICAR, New Delhi, funded scheme *Shrimp and fish health management*, Rs. 22.0 lakh, 1999-2005.
- ✓ **Co-Investigator**, Indian Council of Agricultural Research, New Delhi, funded scheme, *Application of Probiotics in Aquaculture Nutrition*, 2003-2006
- ✓ **Co-Investigator**, Department of Science and Technology, Government of West Bengal funded scheme, *Determination of threatened status and cytological characteristics of fish species in Nadia and Howrah districts, West Bengal*, Rs. 3.9 lakh 2001-2003
- ✓ **Co-Investigator**, Department of Food Processing Industries, Government of India-funded scheme, *Value addition of underutilised marine fishes of West Bengal*, Rs. 33.41 lakh, 2001-2004
- ✓ **Co-investigator**, ICAR, New Delhi funded scheme, *Elucidation of food safety issues related to fish-borne parasites of zoonotic potential in aquaculture produce*, Rs.8.34 lakh, 2002-2005
- ✓ **Co-Investigator**, Department of Science and Technology, Government of West Bengal, funded scheme on *Development of a simple diagnostic kit for motile aeromonads in freshwater fish*, Rs. 2.95 lakh, 2005-2006
- ✓ **Investigator in-charge**, ICAR New Delhi funded Scheme on '*Design and development of a responsible trawl for pomfret fishery along the northeast coast of India*'. Rs. 15.67 Lakhs, 2004-2007
- ✓ **Co-Investigator**, *Characterisation of immune effector cells in Indian major and minor carps*: DBT, GOI, Rs. 12.00 lakhs, 2008 - 2011
- ✓ **Co-Investigator**, ICAR New Delhi funded Scheme on "*Fish seed production*". Rs. 25.00 lakhs, 2006 - 2011
- ✓ **Principal Investigator**, Niche Area of Excellence programme on "*Surveillance of diseases of aquacultured finfish and shellfish in West Bengal and development of disease management strategies*", ICAR, New Delhi, Rs. 488.9 lakhs; 23.3.12-31.3.2016
- ✓ **Principal Investigator**, *All India Network Project on Fish Health (Phase I)* in collaboration with ICAR- Central Institute of Brackishwater Aquaculture, Chennai, Rs. 77.0162 lakhs; 20.06.2015-31.03.2020

- ✓ **Principal Investigator**, All India Network Project on Fish Health (Phase II) in collaboration with ICAR- Central Institute of Brackishwater Aquaculture, Chennai, Rs. 75.00 lakhs, 1.4.2020-Present
- ✓ **Co-Investigator**, NFDB-funded Project on “National Surveillance Programme on Aquatic Animal Diseases-Phase 2” in collaboration with National Bureau of Fish Genetic Resources, ICAR, Lucknow, Rs. 25.00 lakhs (2022-Present)

9. Publication:

Journals (National & International): **with NAAS, IF rating**

Papers published in Journals (2020-2026): 101

1. Sen, A., Mondal, D., and **Abraham, T.J.**, 2026. Finfish mycoses in aquaculture: Diagnosis, therapeutics and emerging challenges - A review. *Indian Journal of Animal Health*, DOI: <https://doi.org/10.36062/ijah.2026.spl.05426>. (NAAS: 5.01)
2. Behera, B., Bhowmick, S., Saha, A., Mali, P., Sen, A., Mukherjee, D., Chakraborty, N., Chettri, A., Kishore, J. G., Dash, G., **Abraham, T.J.**, and Karmakar, S., 2026. Comparative antibacterial and safety assessment of ethanol and chloroform extracts of *Ayapana triplinervis* in Nile tilapia (*Oreochromis niloticus*). *Indian Journal of Animal Health*, 65(1)- Special Issue: 172-185. DOI: <https://doi.org/10.36062/ijah.2026.spl.05826>. (NAAS: 5.01)
3. Singha, J., **Abraham, T.J.**, Panda, S.K., and Patil, P.K., 2026. Effects of dietary emamectin benzoate at recommended and overdose levels on the pathophysiological responses and tolerability of *Oreochromis niloticus* at fry stage. *American Journal of Pharmacology and Toxicology*, 20: 21-34 DOI:10.3844/ajptsp.2026.21.34. (NAAS: Nil; IF: Nil).
4. Das, R., **Abraham, T.J.**, Sen, A., and Patil, P.K. 2026. Alterations in Nile tilapia *Oreochromis niloticus* erythrometry as sensitive indicators of dietary fluoroquinolone antibiotic enrofloxacin toxicity. *Journal of Fisheries*, 14(3): 143203. DOI: 10.17017/j.fish.1066. (NAAS: Nil; IF: 1.00).
5. Bhowmick, S., Saha, A., Mali, P., Mukherjee, D., Chakraborty, N., Sen, S., Behera, B., Dash, G., **Abraham, T.J.**, Chettri, A., and Kishore, J.G., 2026. Antibacterial activity of *Ayapana triplinervis* against multidrug-resistant *Aeromonas* in aquaculture. *Academia Biology*, 4:1-12 <https://doi.org/10.20935/AcadBiol8278>. (NAAS: Nil; IF: Nil).
6. Das, N., **Abraham, T.J.**, Das, B.K., Manna, S.K., Sen, A., Chatterjee, S., Rajisha, R., Nadella, R.K., Dash, G., and Bera, A.K., 2026. Residue analysis and determination of withdrawal period of florfenicol upon in-feed administration to striped catfish *Pangasianodon hypophthalmus* (Sauvage, 1878). *Veterinary Research Communications*, 50:282. <https://doi.org/10.1007/s11259-026-11225-0>. (NAAS: 8.00; IF: 2.00).
7. **Abraham, T.J.**, and Bardhan, A., 2026. Florfenicol in aquaculture: environmental fate of residues and dissemination of antimicrobial resistance genes. *BMC Animal Diseases*, 6:15. <https://doi.org/10.1186/s44149-026-00224-y> (NAAS: 8.00; IF: 2.00).
8. Sen, A., Mondal, D., and **Abraham, T.J.**, 2026. Use of clotrimazole in finfish aquaculture: Mechanistic insights, limitations, and future directions for antifungal therapy. *Animal Research and One Health*, 00:1-19. <https://doi.org/10.1002/aro2.700721>. (NAAS: Nil; IF: 5.30)
9. **Abraham, T.J.**, Bora, M., Sen, A., Nadella, R.K., Chatterjee, N.S., and Patil, P.K., 2026. Plasma and tissue distribution of dietary oxolinic acid and its influence on the biological responses of Nile tilapia, *Oreochromis niloticus*. *Archives of Ecotoxicology*, 8(1), 9-21. <https://doi.org/10.36547/ae.2026.8.1.9-21> (NAAS: Nil; IF: 0.107).
10. Naveen R.B., Mythrayee, B., and **Abraham, T.J.**, 2026. In-silico evaluation and docking of herbal and synthetic antimicrobials targeting catalase in *Edwardsiella* spp. *Asian Journal of Microbiology and Biotechnology*, 11(1), 179-195. DOI: <https://doi.org/10.56557/ajmab/2026/v11i110426>. (NAAS: 4.60; IF: Nil).
11. Ghorai, A., Abraham, T.J., Sen, A., Das, R., Sinha, P., Nadella, R.K., Chatterjee, N.S., and Patil, P.K., 2026. Assessment of risks associated with dietary administration of antiparasitic drug lufenuron in Nile tilapia *Oreochromis niloticus* by integrated biomarker response. *Veterinary Research Communications*, 50, 124. <https://doi.org/10.1007/s11259-025-11041-y>. (NAAS: 8.00; IF: 2.00).
12. **Abraham, T.J.**, Das, R., Sen, S., Chatterjee, N.S., Nadella, R.K., and Patil, P.K., 2026. Pharmacokinetics and tissue residue profiles of enrofloxacin in Nile tilapia *Oreochromis niloticus* following a single oral

administration. *Journal of Veterinary Pharmacology and Therapeutics*, 49:333–342. <https://doi.org/10.1111/jvp.70047>. (NAAS: 7.70; IF: 1.70).

13. Sharon, J., **Abraham, T.J.**, Sen, A., Sinha, P., Das, R., Uma, A., and Patil, P.K., 2025. Florfenicol therapy reduces brain histoarchitectural anomalies in *Streptococcus agalactiae*-infected Nile tilapia *Oreochromis niloticus*. *Journal of Ocean University of China*, 24(6): 1719-1727. DOI: 10.1007/s11802-025-6092-8 (NAAS: 7.20; IF: 1.20).
14. Garani, S., Chatterjee, P.N., and **Abraham, T.J.**, 2025. Influence of supplementing dietary nano-zinc on production performances and health of Nile tilapia when challenged with *Aeromonas hydrophila*. *Biochemical and Cellular Archives*, 25(2); p2023. DOI: 10.51470/bca.2025.25.2.2023. (NAAS: 5.31)
15. Das, R., **Abraham, T.J.**, Sen, A., Rajisha, R., Nadella, R.K., and Patil, P.K., 2025. Withdrawal period and elimination half-life of enrofloxacin, and assessment of its impact on bioresponses of *Oreochromis niloticus* using integrated biomarker response. *Environmental Toxicology and Chemistry*, 2025:vgaf202, 1-17, doi: 10.1093/etojnl/vgaf202. (NAAS: 8.80; IF: 2.80)
16. Sinha, P., **Abraham, T.J.**, Sen, A., Sharon, J., Das, R., Rajeshwar, B.N., Uma, A., and Patil, P.K., 2025. Influence of in-feed oxolinic acid therapy on the brain histoarchitecture and virulence factors of *Streptococcus agalactiae* infecting Nile tilapia *Oreochromis niloticus*. *Highlights in BioScience*, 8:bs202509. DOI:10.36462/H.BioSci.202509. (NAAS: Nil; IF: Nil)
17. Vishwakarma, A., Nagesh, T.S., Singh, M., **Abraham, T.J.**, Sarkar, U.K., and Ziauddin, G. 2025. Addressing the phenotypic plasticity in *Boleophthalmus boddarti* (Pallas, 1770) from Sundarbans of West Bengal using integrative taxonomy. *Zoologischer Anzeiger*, 317: 60-72, <https://doi.org/10.1016/j.jcz.2025.05.009>. (NAAS: 7.20; IF: 1.20)
18. Karmokar, S., Das, S., Priyadarsani, L., Dash, G., and **Abraham, T.J.**, 2025. Surveillance of tilapia lake virus (TiLV) in diverse aquaculture systems of the Indian Sundarbans and adjoining regions in West Bengal, India. *Indian Journal of Fisheries*, 72(3): 136-143. doi:10.21077/ijf.2025.72.3.166556-15 (NAAS: 6.40)
19. Patil, P.K., Geetha, R., Mishra, S.S., **Abraham, T.J.**, Solanki, H.G., Krupesha Sharma, S.R., Pradhan, P.K., Manna, S.K., Avunje, S., Abhinaya, D., Felix, K.T., Vinay, T.N., Paniprasad, K., Paria, A., Raja, S.A., Saraswathy, R., Sahoo, S.N., Rathod, R., Rameshkumar, P., Baitha, R., Thomas, S., Dev, A.K., Jayanthi, M., Swain, P., Sanil, N.K., and Jena, J.K., (2025) Unveiling the economic burden of diseases in aquatic animal food production in India. *Frontiers in Sustainable Food Systems* 9:1480094. doi: 10.3389/fsufs.2025.1480094 9 (NAAS: 9.70; IF: 3.70)
20. Singha, J., and **Abraham, T.J.**, 2025. Dietary emamectin benzoate alters the gill and spleen histoarchitecture of monosex *Oreochromis niloticus* fry. *Journal of Fisheries* 13(2), 132401. DOI: 10.17017/j.fish.1001 (NAAS: 7.00; IF: 1.00)
21. Sen, A., Nath, S.K., **Abraham, T.J.**, Das, R., Sinha, P., Ghorai, A., and Patil, P.K., 2025. Temperature-driven shifts in haematology and erythrocyte morphology of Nile tilapia *Oreochromis niloticus*. *Indian Journal of Animal Health*, 64(2): 426–430. DOI: <https://doi.org/10.36062/ijah.2025.09325>
22. Saha, A., Bhowmick, S., Mali, P., Mukherjee, D., Chakraborty, N., Sen, A., Behera, B., Dash, G., **Abraham, T. J.**, and Karmakar, S., 2025. Antimicrobial efficacy of *Ayapana triplinervis* chloroform extract against fish pathogenic *Aeromonas* strains. *Indian Journal of Animal Health*, 64(1)- Special Issue: 1-8. DOI: <https://doi.org/10.36062/ijah.2025.spl.08225>. (NAAS: 5.59)
23. Sinha, P., **Abraham, T.J.**, Sen, A., Sharon, J., Das, R., Ghorai, A., Boda, S., and Patil, P.K., 2025. Oxolinic acid therapy: An effective way to reduce *Aeromonas veronii* infection in *Oreochromis niloticus* and improve biochemical and hematological parameters and histopathological lesions. *Fisheries & Aquatic Life* 33, 1-18. DOI 10.2478/aopf-2025-0001 (NAAS: Nil; IF: 0.82)
24. Meshram, S.N., and **Abraham, T.J.**, 2025. *Klebsiella pneumoniae* isolation, identification and characterization from naturally infected farmed raised Nile tilapia *Oreochromis niloticus* (Linnaeus, 1758) in West Bengal, India. *International Journal of Bioresource and Stress Management*. 16(5): 01-08. DOI: <https://doi.org/10.23910/1.2025.5811> (NAAS: 5.40; IF: Nil)
25. **Abraham, T.J.**, Roy, A., Singha, J., Patil, P.K., 2025. Histoarchitectural changes in the vital organs of *Oreochromis niloticus* fry administered therapeutic, and overdoses of dietary oxytetracycline. *Archives of Ecotoxicology*, 7(1): 1-10. <https://doi.org/10.36547/ae.2025.7.1.1-10>. (NAAS: Nil; IF: 0.107)
26. Jana, S., Nagesh, T.S., Bhakta, D., **Abraham, T.J.**, and Bhor, M., 2025. GIS-based mapping of the spatio-temporal distribution of Reeve's croaker, *Chrysochira aurea* (Richardson, 1846), along the coast of West Bengal, India. *Indian Journal of Geo Marine Sciences*, 54 (01): 05-09. DOI: 10.56042/ijms.v54i01.14641. (NAAS: 6.33; IF: 0.32)

27. Sharon, J., **Abraham, T.J.**, Sen, A., Das, R., Sinha, P., Boda, S., Uma, A., Patil, P.K., 2025. Effects of *Streptococcus agalactiae* infection and oral florfenicol administration on the hemato-biochemistry, erythrocyte morphology and histopathology of *Oreochromis niloticus*. *Journal of Fisheries* 13(1): 131209. DOI: 10.17017/j.fish.720 (NAAS: 6.60; IF: 0.60)
28. **Abraham, T.J.**, Bora, M., Bardhan, A., Sen, A., Das, R., Nadella, R.K., and Patil, P.K., 2025. In-feed oxolinic acid induces oxidative stress and histopathological alterations in Nile tilapia *Oreochromis niloticus*. *Toxicology Reports* 14 (2025) 102020. <https://doi.org/10.1016/j.toxrep.2025.102020> (Impact score: 3.74)
29. **Abraham, T.J.**, Roy, A., Singha, J., Rajisha, R., Nadella, R.K., and Patil, P.K., 2025. Muscle biochemistry and residue accretion in male *Oreochromis niloticus* fries administered therapeutic, subtherapeutic and overdoses of dietary oxytetracycline. *Fish Physiology and Biochemistry*, 51:35. <https://doi.org/10.1007/s10695-024-01447-x>(NAAS: 8.50; IF: 2.50)
30. **Abraham, T.J.**, Singha, J., Dash, G., Nagesh, T.S., Karmakar, S., Patil, P.K., 2025. Influence of infeed emamectin benzoate and winter on the bioresponses of *Oreochromis niloticus*. *Academia Biology* 2025; 3. <https://doi.org/10.20935/AcadBiol7540>. (NAAS: Nil; IF: Nil)
31. Sharon, J., **Abraham, T.J.**, Sen, A., Das, R., Sinha, P., Boda, S., and Patil, P.K., 2025. Haemato-biochemistry, erythromorphology, and histopathology of *Oreochromis niloticus* as influenced by *Aeromonas hydrophila* infection and florfenicol therapy. *Animal Research and One Health*, 3(1): 54–70. <https://doi.org/10.1002/aro2.100>. (NAAS: Nil; IF: 5.30)
32. Choudhary, P., Naik, S.P., Sahoo, S.R., Das, R., Sahoo, S.N., Panda, S.K., **Abraham, T.J.**, Patil, P.K., Swain, P., and Mishra, S.S., 2024. Effects of prolonged oxytetracycline supplementation on freshwater stinging catfish (*Heteropneustes fossilis*): a multi-biomarker approach. *Frontiers in Immunology*, 15:1478114. doi: 10.3389/fimmu.2024.1478114 (NAAS: 11.70; IF: 5.70).
33. Bardhan, A., **Abraham, T.J.**, and Patil, P.K., 2024. Assessing the biosafety of florfenicol by histoarchitectural alterations in Nile tilapia *Oreochromis niloticus*. *Indian Journal of Animal Health*, 63(2) Special issue: 102-108. DOI: <https://doi.org/10.36062/ijah.2024.spl.01324>. (NAAS: 5.25).
34. Charan, K.S., Nagesh, T.S., Abraham, T.J., Bhanuprakash, C., and Das, S., 2024. Effects of feed deprivation on the biochemical responses of *Pangasianodon hypophthalmus*. *Uttar Pradesh Journal of Zoology*, 45(11): 9-18, DOI: 10.56557/upjoz/2024/v45i114066. (NAAS: 5.24).
35. Bardhan, A., **Abraham, T.J.**, Sar, T.K., Rajisha, R., Panda, S.K., and Patil, P.K., 2024. Pharmacokinetics and residues of florfenicol in Nile tilapia (*Oreochromis niloticus*) post-oral gavage. *Environmental Toxicology and Pharmacology*, 108(2024) 104471. <https://doi.org/10.1016/j.etap.2024.104471>(NAAS: 10.30; IF: 4.30).
36. Das, R., **Abraham, T.J.**, Sen, A., Rajisha, R., Nadella, R.K., Chatterjee, N.S., and Patil, P.K., 2024. Impact of graded doses of enrofloxacin on the safety and biological responses of Nile tilapia *Oreochromis niloticus*. *Drug and Chemical Toxicology*, 48: 784-796. <https://doi.org/10.1080/01480545.2024.2405831>. (NAAS: 8.10; IF: 2.10).
37. Karmakar, S., Kumar, K., **Abraham, T.J.**, Kumar, S., Kumar, S., Shukla, S.P., and Dey, B., 2024. The role of environmentally relevant concentrations of oxytetracycline in the emergence of antimicrobial resistance in *Aeromonas hydrophila* and *Edwardsiella tarda*. *Journal of Hazardous Materials Letters*, 5 (2024) 100130. <https://doi.org/10.1016/j.hazl.2024.100130> (NAAS: 12.60; IF: 6.60).
38. Das, N., **Abraham, T.J.**, Bera, A.K., Manna, S.K., Sen, A., and Chatterjee, S., 2024. Histoarchitectural anomalies induced by antibiotic florfenicol in commercially important catfish *Pangasianodon hypophthalmus*. *Exploratory Animal and Medical Research* 14(1), DOI: 10.52635/eamr/14.1.112-123. (NAAS: 6.10; IF: 0.10).
39. Bardhan, A., **Abraham, T.J.**, Das, R., Patil, P.K., 2024. Unraveling florfenicol's effects on splenic histology, erythrocytes, and hematology of healthy *Oreochromis niloticus* juveniles. *Applied Research*, 3:e202400017. <https://doi.org/10.1002/appl.202400017>(NAAS: Nil; IF: Nil).
40. Bardhan, A., **Abraham, T.J.**, Dash, G., Nagesh, T.S., Sau, S.K., and Patil, P.K., 2024. Intestinal histopathological aberrations in *Oreochromis niloticus* juveniles upon dietary florfenicol administration. *Bulletin of Environmental Contamination and Toxicology*, (2024) 112:50. <https://doi.org/10.1007/s00128-024-03876-z> (NAAS: 8.17; IF: 2.17).
41. **Abraham, T.J.**, Patel, J.B., Bardhan, A., Rajisha, R., Panda, S.K. and Patil, P.K., 2024. Safety, tolerability, and biological responses of *Oreochromis niloticus* juveniles upon oral oxolinic acid administration. *Journal of Veterinary Pharmacology and Therapeutics*. 47:121–133. DOI: 10.1111/jvp.13408 (NAAS: 7.79; IF: 1.786)
42. **Abraham, T.J.**, Singha, J., Bardhan, A., Karmakar, S., Rajisha, R., Panda, S.K., and Patil, P.K., 2024. In-feed antiparasitic veterinary drug emamectin benzoate impairs acetylcholinesterase activity and brain tissue

- histoarchitecture of *Oreochromis niloticus* fry. *Emerging Animal Species*, 10(2024), 100042. doi: <https://doi.org/10.1016/j.eas.2024.100042>. (NAAS: Nil; IF: Nil)
43. Jana, S., Nagesh, T.S., Samanta, R., **Abraham, T.J.**, Behera, S., and Bhakta, D., 2024. Quantitative assessment and temporal fluctuation of a multiday shrimp trawl bycatch off Digha coast, West Bengal, India. *Fishery Technology* 61: 222-236. <https://doi.org/10.56093/ft.v61i3.148763> (NAAS: 5.25)
 44. Bardhan, A., **Abraham, T.J.**, Das, R., and Patil, P.K., 2024. Visualization of poikilocytosis as an emerging erythrocytic biomarker for fish health assessment. *Animal Research and One Health*, 2:136–157. <https://doi.org/10.1002/aro2.47>. (NAAS: Nil; IF: 5.30)
 45. Patel, J.B., **Abraham, T.J.**, Bardhan, A., Das, R., Sen, A., Boda, S., and Patil, P.K., 2024. Efficacy of oxolinic acid against *Aeromonas hydrophila* infection in Nile tilapia *Oreochromis niloticus* juveniles. *Aquaculture Studies*, 24(3), Aquast1653. <http://doi.org/10.4194/AQUAST1653>. (NAAS: Nil; IF: Nil)
 46. Paul, P., Sau, S.K., Nayak, A., and **Abraham, T.J.**, 2024. Influence of papaya pulp powder on fin pigmentation of an ornamental fish banded cichlid, *Heros severus*. *International Journal of Advanced Biochemistry Research*, SP-8(3): 595-600. DOI: <https://doi.org/10.33545/26174693.2024.v8.i3Sh.826>. (NAAS: 5.29; IF: Nil)
 47. Hoque, F., **Abraham, T.J.**, Dash, G., Boda, S., Nagesh, T.S., Ghosh, T.K., Joardar, S.N., and Sundaray, J.K., 2023. Effect of dietary yeast extract on the innate immunity, serum biochemistry and disease resistance of *Pangasius pangasius* against *Edwardsiella* infection. *Proceedings of the Zoological Society*, <https://doi.org/10.1007/s12595-023-00507-z> (NAAS: 4.42).
 48. Das, S.K., Nagesh, T.S., Sarang, N., Das, S.K., **Abraham, T.J.**, Canciyal, J., and Panda, K., 2023. Effect of environmental drivers of fish assemblage and diversity patterns in temporal scale in Mongra Reservoir: A case study from one of the tributaries of Mahanadi Basin, Central India. *Ecohydrology*. 2023; e2599. <https://doi.org/10.1002/eco.2599>. (NAAS: 8.60; IF: 2.60).
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