

ICAR-CICFR (formerly ICAR-DCFR) Publications- 2025

1.	Arya, M., Shahi, N., Bisht, I., Pandey, N. and Mallik, S.K., 2025. Probiotic potential of <i>Bacillus velezensis</i> STPB10 sourced from the gut microbiota of a hillstream fish <i>Schizothorax richardsonii</i> (Gray, 1832) for aquaculture applications. <i>Scientific reports</i> , 15(1), p.17580. https://doi.org/10.1038/s41598-025-02836-9
2.	Basudha, C., Chanu, K.V., Sobita, N., Ningombam, A., Chanamthabam, C. and Wakambam, A., 2025. The Complete Mitochondrial Genome of <i>Bangana dero</i> (Cyprinidae: labeoninae) and its Relationship with Other Labeonin Fishes. <i>Indian Journal of Animal Research</i> , 1, p.10. https://doi.org/10.18805/IJAR.B-5476
3.	Bhat, R.A.H., Lohumi, Y., Pande, A., Tripathi, A.H. and Upadhyay, S.K., 2025. Advances in Transcriptomic Technologies and Their Applications in Fisheries Science. <i>Genetics of Aquatic Organisms</i> , 9(2). https://www.genaqua.org/uploads/pdf_113.pdf
4.	Bhat, R.A.H., Lohumi, Y., Pande, A., Tripathi, A.H. and Upadhyay, S.K., 2025. Advances in Transcriptomic Technologies and Their Applications in Fisheries Science. <i>Genetics of Aquatic Organisms</i> , 9(2). https://www.genaqua.org/uploads/pdf_113.pdf
5.	Ciji, A., Akhtar, M.S., Kamalam, B.S., Rajesh, M. and Sharma, P., 2025. Tailored broodstock diet fortified with functional nutrients enhances reproductive efficiency and larval quality traits of <i>Tor putitora</i> , an endangered cyprinid. <i>Animal Reproduction Science</i> , p.108027. https://doi.org/10.1016/j.anireprosci.2025.108027
6.	Harsh, P., Shah, T.H., Ciji, A., Pandey, P.K., Mukul, A. and Akhtar, M.S., 2025. Temperature-induced ontogenic plasticity and larval fitness of golden mahseer (<i>Tor putitora</i>) in captivity. <i>Journal of Thermal Biology</i> , p.104337. https://doi.org/10.1016/j.jtherbio.2025.104337
7.	Harsh, P., Shah, T.H., Ciji, A., Pandey, P.K., Mukul, A. and Akhtar, M.S., 2025. Temperature-induced ontogenic plasticity and larval fitness of golden mahseer (<i>Tor putitora</i>) in captivity. <i>Journal of Thermal Biology</i> , p.104337. https://doi.org/10.1016/j.jtherbio.2025.104337
8.	Joshi, R., Kamalam, B.S., Sharma, P., Arya, M., Rasheed, N., Gehlot, B., Sarma, D., Pathak, B.C., Akhtar, M.S., Pandey, P.K. and Rajesh, M., 2025. Development profile of digestive enzymes and intestinal nutrient transporters during the early ontogeny of Himalayan snow trout, <i>Schizothorax richardsonii</i> . <i>Aquaculture International</i> , 33(4), p.284. https://doi.org/10.1007/s10499-025-01964-3
9.	Kaur, A., Ali, S., Brraich, O.S., Siva, C. and Pandey, P.K., 2025. State of thermal tolerance in an endangered himalayan fish <i>Tor putitora</i> revealed by expression modulation in environmental stress related genes. <i>Scientific Reports</i> , 15(1), p.5025. https://doi.org/10.1038/s41598-025-89772-w
10.	Kumari, R., Srivastava, P.P., Mohanta, K.N., Das, P., Kumar, R., Sharma, P., Sahoo, L., Rajesh, M. and Siddaiah, G.M., 2025. Expression of pancreatic α -amylase and growth-related genes during larval ontogeny in striped murrel (<i>Channa striata</i>). <i>Scientific Reports</i> , 15(1), p.33861. https://doi.org/10.1038/s41598-025-06945-3
11.	Lohumi, Y., Bhat, R.A.H. and Pande, A., 2025. Synthetic Antimicrobial Peptides: Combatting Antibiotic Resistance for Sustainable Aquaculture. <i>Microbial Pathogenesis</i> , p.108029. https://doi.org/10.1016/j.micpath.2025.108029
12.	Malik, M.A., Bedekar, M.K., Bhat, R.A.H., Valsalam, A., Varghese, T., Jahageerdar, S., Nayak, S.K., Reang, D. and Gupta, S., 2025. Peptide-based indirect ELISA for salmon GnRH analogue detection: Enhanced sero-retention with chitosan nanoconjugation. <i>International Journal of Biological Macromolecules</i> , p.148970. https://doi.org/10.1016/j.ijbiomac.2025.148970
13.	Mallik, S.K., Pathak, R., Kala, K., Patil, P.K., Shahi, N., Tandel, R.S., Chatterjee, N.S., Nadella, R.K. and Kunal, K., 2025. Pharmacokinetics of praziquantel in rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum 1792) following a single dose oral administration. <i>Veterinary Research Communications</i> , 49(6), p.341. https://doi.org/10.1007/s11259-025-10895-6
14.	Nahida, R., Rajesh, M., Sharma, P., Pandey, N., Pandey, P.K., Suresh, A.V., Angel, G., Chadha, N.K., Sawant, P.B., Pandey, A. and Kamalam, B.S., 2025. Stocking density affects growth, feed utilisation, metabolism, welfare and associated mRNA transcripts in liver and muscle of rainbow trout more pronouncedly than dietary fish meal inclusion level. <i>Aquaculture</i> , 596, p.741717. https://doi.org/10.1016/j.aquaculture.2024.741717

15.	Pathak, R., Mallik, S.K., Patil, P.K., Kala, K., Shahi, N., Nadella, R.K., Pandey, N., Kunal, K. and Pandey, P.K., 2024. Assessing the effect of therapeutic level of oxytetracycline dihydrate on pharmacokinetics and biosafety in <i>Oncorhynchus mykiss</i> (Walbaum, 1792). <i>Scientific Reports</i> , 14(1), p.22752. https://doi.org/10.1038/s41598-024-73921-8
16.	Pathak, R., Mallik, S.K., Patil, P.K., Shahi, N., Kala, K., Bhat, R.A.H., Nadella, R.K., Pandey, N. and Pandey, P.K., 2025. Assessment of Single-Dose Pharmacokinetics of Oxolinic Acid in Rainbow Trout and Determination of In Vitro Antibacterial Activity Against Pathogenic Bacteria from Diseased Fish. <i>Journal of Veterinary Pharmacology and Therapeutics</i> , 48(1), pp.44-55. https://doi.org/10.1111/jvp.13477
17.	Sathiyarayanan, A., Khangembam, V.C., Pande, A., Pandey, N., Goswami, M. and Thakuria, D., 2025. A novel fish virus-derived chimeric peptide for intracellular delivery of nucleic acid. <i>Journal of Drug Delivery Science and Technology</i> , p.107327. https://doi.org/10.1016/j.jddst.2025.107327
18.	Shahi, N., Singh, B., Pande, A., Chandra, S., Kunal, K. and Mallik, S.K., 2025. Safe and efficacious inactivated immersion vaccine against KG+ phenotype of emerging bacterial pathogen <i>Lactococcus garvieae</i> for early developmental stage of rainbow trout (<i>Oncorhynchus mykiss</i>) in India. <i>Vaccine</i> , 59, p.127266. https://doi.org/10.1016/j.vaccine.2025.127266
19.	Sidiq, M.J., Ciji, A., Khatei, A., Siva, C., Chadha, N.K., Sawant, P.B., Pandey, P.K. and Akhtar, M.S., 2025. Exposure to ambient UVB light influences the welfare, energy requirements, metabolism, and relevant molecular biology of the Himalayan fish <i>Tor putitora</i> : Investigating the hidden costs of sunlight in upland aquaculture. <i>Aquaculture</i> , 605, p.742496. https://doi.org/10.1016/j.aquaculture.2025.742496
20.	Tandel, R.S., Dash, P., Bhat, R.A.H., Kalingapuram, K. and Sharma, P., 2025. Skeletal deformities in farmed rainbow trout, <i>Oncorhynchus mykiss</i> , at an early stage of development: a case study of Indian Himalayan States. <i>Journal of Applied Ichthyology</i> , 2025(1), p.1923763. https://doi.org/10.1155/jai/1923763
21.	Tripathi, P.H., Pandey, A., Ciji, A. and Akhtar, M.S., 2025. Validation of reference genes for immune gene expression studies during early ontogeny of golden mahseer, <i>Tor putitora</i> . <i>Aquaculture Science and Management</i> , 2(1), p.14. https://doi.org/10.1186/s44365-025-00015-5