

ICAR-CICFR (formerly ICAR-DCFR) Publications- 2023

1.	Bhat R.A.H. and I. Altinok (2023) Antimicrobial resistance (AMR) and alternative strategies for combating AMR in Aquaculture. Turkish Journal of Fisheries and Aquatic Sciences, 23(11): TRJFAS24068. https://www.trjfas.org/uploads/pdf_14986.pdf
2.	Bhat R.A.H., V.C. Khangembam, V. Pant, R.S. Tandel, P.K. Pandey and D. Thakuria (2023) Antibacterial potential of a de-novo designed peptide against bacterial fish pathogens. International Journal of Peptide Research and Therapeutics, 29: 85. https://doi.org/10.1007/s10989-023-10554-x
3.	Bisht D., B.K. Sajjanar, S. Saxena, B. Kakodia, V. Dighe, D. Thakuria, N.S. Kharayat, V.C. Khangembam and S. Kumar (2023) Identification and characterization of phage display-selected peptides having affinity to <i>Peste des petits ruminant's</i> virus. Journal of Immunological Methods, 515: 113455. https://doi.org/10.1016/j.jim.2023.113455
4.	Chanu K.R., Y.A. Mangang, S. Debbarma and P.K. Pandey (2023) Effect of glyphosate-based herbicide roundup on hemato-biochemistry of <i>Labeo rohita</i> (Hamilton, 1822) and susceptibility to <i>Aeromonas hydrophila</i> infection. Environmental Science and Pollution Research, 30(51): 110298–110311. https://doi.org/10.1007/s11356-023-29967-8
5.	Ciji A., P.H. Tripathi, A. Pandey and M.S. Akhtar (2023) Expression of genes encoding non-specific immunity, anti-oxidative status and aquaporins in β -glucan-fed golden mahseer (<i>Tor putitora</i>) juveniles under ammonia stress. Fish and Shellfish Immunology Reports, 4: 100100. https://doi.org/10.1016/j.fsirep.2023.100100
6.	Dash P., C. Siva, R.S. Tandel, R.A.H. Bhat, P. Gargotra, N.K. Chadha and P.K. Pandey (2023) Temperature alters the oxidative and metabolic biomarkers and expression of environmental stress-related genes in chocolate mahseer (<i>Neolissochilus hexagonolepis</i>). Environmental Science and Pollution Research, 30(15): 43203–43214. https://doi.org/10.1007/s11356-023-25325-w
7.	Dubey M.K., B.S. Kamalam, M. Rajesh, D. Sarma, A. Pandey, P. Baral and P. Sharma (2023) Exposure to different temperature regimes at early life stages affects hatching, developmental morphology, larval growth, and muscle cellularity in rainbow trout (<i>Oncorhynchus mykiss</i>). Fish Physiology and Biochemistry, 49(2): 219–238. https://doi.org/10.1007/s10695-023-01175-8
8.	Fayaz I., R.A.H. Bhat, R.S. Tandel, P. Dash, S. Chandra, M. Dubey and P.A. Ganie (2023) Comprehensive review on fish infectious pancreatic necrosis virus. Aquaculture, 574: 739737. https://doi.org/10.1016/j.aquaculture.2023.739737
9.	Ganie P.A., R. Posti, A.S. Aswal, V.S. Bharti, V.K. Sehgal, D. Sarma and P.K. Pandey (2023) A comparative analysis of the vertical accuracy of multiple open-source digital elevation models for the mountainous terrain of the north-western Himalaya. Modeling Earth Systems and Environment, 9(2): 2723–2743. https://doi.org/10.1007/s40808-022-01641-x
10.	Ganie P.A., R. Posti, D. Baruah, K. Kunal, G. Kunal, D. Sarma and P.K. Pandey (2023) Land suitability modelling for rainbow trout farming in the Eastern Himalayan Region, India, using GIS–MCE approach. Modeling Earth Systems and Environment, 9(2): 2437–2462. https://doi.org/10.1007/s40808-022-01631-z
11.	Ganie P.A., R. Posti, K. Kunal, V.S. Bharti, V.K. Sehgal, D. Sarma and P.K. Pandey (2023) Modelling of the Himalayan Mountain River basin through hydro-morphological and compound factor-based approaches using geoinformatics tools. Modeling Earth Systems and Environment, 9: 3053–3084. https://doi.org/10.1007/s40808-023-01691-9
12.	Ganie P.A., R. Posti, V.S. Bharti, V.K. Sehgal, D. Sarma and P.K. Pandey (2023) Striking a balance between conservation and development: A geospatial approach to watershed prioritisation in the Himalayan Basin. Conservation, 3(4): 460–490. https://doi.org/10.3390/conservation3040031
13.	Gladju J., A. Kanagaraj and B.S. Kamalam (2023) Use of data mining to establish associations between Indian marine fish catch and environmental data. Archives of Biological Sciences, (00): 37–37. https://doi.org/10.2298/ABS230909037G
14.	Jethi R., D.C. Joshi, K. Joshi, M.S. Bhinda and L. Kant (2023) Identifying farmers' preferences and constraints to finger millet production in the Submontane Kumaon and Garhwal Himalayan region of India. Journal of Community Mobilization and Sustainable Development, 18(3): 365–370. http://dx.doi.org/10.5958/2231-6736.2023.00016.9

15.	Joshi P., R. Jethi, G.S. Mahra, Y.P. Singh and G. Joshi (2023) Evaluation of drudgery and mitigation with improved technological backstopping in vegetable production system of hill region of NWHR. <i>Journal of Community Mobilization and Sustainable Development</i> , 18(4): 1063–1069. http://dx.doi.org/10.5958/2231-6736.2023.00068.6
16.	Karnatak G., B.K. Das, M. Puthiyottil, M.S. Devi, P. Paria, M. Rajesh, U.K. Sarkar, B.K. Behera, V.K. Tiwari, N.K. Chadha and S. Kumari (2023) Influence of stocking density and environmental factors on the expression of insulin-like growth factors in cage-reared butter catfish (<i>Ompok bimaculatus</i> , Bloch 1794) within a large reservoir ecosystem. <i>Environmental Science and Pollution Research</i> , 30: 123181–123192. https://doi.org/10.1007/s11356-023-30790-4
17.	Khangembam V.C., D. Thakuria, V. Pant, R.S. Tandel, B.K. Vishwakarma, N.N. Pandey, A. Pande and P.K. Pandey (2023) First report of <i>Achlya bisexualis</i> infection in captive-reared endangered golden mahseer <i>Tor putitora</i> . <i>Diseases of Aquatic Organisms</i> , 153: 59–68. https://doi.org/10.3354/dao03720
18.	Mallik S.K., N. Shahi, R. Pathak, K. Kala, P.K. Patil, B. Singh, R. Ravindran, N. Krishna and P.K. Pandey (2023) Pharmacokinetics and biosafety evaluation of a veterinary drug florfenicol in rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum 1792) as a model cultivable fish species in temperate water. <i>Frontiers in Pharmacology</i> , 14: 1033170. https://doi.org/10.3389/fphar.2023.1033170
19.	Mallik S.K., R. Pathak, N. Shahi, K. Kala, S. Chandra, P. Das, B. Singh, M. Singh, A.K. Giri, R.S. Tandel, D. Sarma and P.K. Pandey (2023) Pathological analysis and antimicrobial susceptibility of <i>Chryseobacterium balustinum</i> RTFCP 298 isolated from diseased rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Scientific Reports</i> , 13(1): 13268. https://doi.org/10.1038/s41598-023-40028-5
20.	Mallik S.K., S. Singh, N. Shahi, P.K. Patil, K. Kala, R. Pathak, A.K. Giri, P. Das, R.S. Tandel, S. Chandra and N. Krishna (2023) Biosafety, histological alterations and residue depletion of feed administered anti-parasitic drug emamectin benzoate in golden mahseer, <i>Tor putitora</i> (Hamilton, 1822) as a model candidate fish for sport fishery and conservation in temperate waters. <i>Frontiers in Pharmacology</i> , 14: 1106124. https://doi.org/10.3389/fphar.2023.1106124
21.	Mallik S.K., S. Singh, N. Shahi, R. Pathak, K. Kala, P. Das, B. Singh, A.K. Giri, S. Chandra, D. Sarma and P.K. Pandey (2023) Characterization and pathological analysis of <i>Flavobacterium tructae</i> recovered from farmed rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum, 1792), in the Indian Himalayan Region. <i>Aquaculture International</i> , 31(4): 2399–2420. https://ui.adsabs.harvard.edu/link_gateway/2023AqInt..31.2399M/doi:10.1007/s10499-023-01089-5
22.	Nath K., S. Munilkumar, A.B. Patel, P.K. Pandey and P.B. Sawant (2023) Filtration capabilities of freshwater mussel (<i>Lamellidens marginalis</i>) and apple snail (<i>Pila globosa</i>) and their potential impacts on freshwater integrated multitrophic aquaculture systems. <i>Journal of Environmental Biology</i> , 44(3): 367–372. https://jeb.co.in/journal_issues/202305_may23/paper_15.pdf
23.	Rajesh M., B.S. Kamalam, M.K. Dubey, P.A. Ganie and K. Kunal (2023) Optimisation of safe loading density for live transportation of rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum, 1792), yearlings in plastic bags. <i>Asian Fisheries Science</i> , 36: 1–6. https://doi.org/10.33997/j.afs.2023.36.1.001
24.	Shahi N., B. Singh, S.K. Mallik, D. Sarma and W. Surachetpong (2023) RNA-Seq reveals differential gene expression patterns related to reproduction in the golden mahseer. <i>Fishes</i> , 8(7): 352. https://doi.org/10.3390/fishes8070352
25.	Shahi N., D. Sarma, B. Singh, S.K. Mallik, D. Baruah, R. Posti, R.S. Haldar and I. Irengbam Linthoingambi (2023) Characterizing the dark mahseer, <i>Naziritor chelynooides</i> (McClelland, 1839): A morphological, osteological, and molecular approach. <i>Genetics of Aquatic Organisms</i> , 7(2): GA601. http://doi.org/10.4194/GA601
26.	Shahi N., M. Singh, S.K. Mallik, B. Singh, K. Kala, M. Sahoo, D. Sarma and P.K. Pandey (2024) First report of characterization and pathogenicity of <i>Basidiobolus</i> sp. Ind SN1 recovered from gastrointestinal <i>basidiobolomycosis</i> as an outbreak in a coldwater fish species rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum, 1792) in India. <i>Aquaculture International</i> , 32(1): 795–815. https://doi.org/10.1007/s10499-023-01190-9
27.	Shahi N., T. Prasartset and W. Surachetpong (2023) A specific and sensitive droplet digital polymerase chain reaction assay for the detection of tilapia lake virus in fish tissue and

	environmental samples. <i>Journal of Fish Diseases</i> , 46(9): 957–966. https://doi.org/10.1111/jfd.13816
28.	Sidiq M.J., E.G. Jayaraj, S.S. Rathore, R.A.H. Bhat, M.A.A. Mamun and A.S. Khandagale (2023) Ameliorative role of dietary acidifier potassium formate on growth metrics, blood chemistry, gut health and well-being indices of rohu, <i>Labeo rohita</i> fingerlings. <i>Fish Physiology and Biochemistry</i> , 49(1): 19–37. https://doi.org/10.1007/s10695-023-01171-y
29.	Sinha A., P.K. Pandey and S. Ghosh (2023) Ornamental fishing industry. <i>Frontiers in Marine Science</i> , 10: 1245218. https://doi.org/10.3389/fmars.2023.1245218
30.	Sivaramakrishnan T., K. Ambasankar, N. Felix, A. Bera, B.S. Kamalam, K.K. Vasagam and M. Kailasam (2023) Changes in digestive enzyme activities during the early ontogeny of milkfish, <i>Chanos chanos</i> larvae. <i>Fish Physiology and Biochemistry</i> , 49(5): 867–882. https://doi.org/10.1007/s10695-023-01225-1