

ICAR-CICFR (formerly ICAR-DCFR) Publications- 2024

1.	Acharya A., G. Tripathi and R.A.H. Bhat (2024) Structural and functional characterization of haemoglobin genes in <i>Labeo catla</i> : Insights into hypoxic adaptation and survival. International Journal of Biological Macromolecules, 281: 136235. https://doi.org/10.1016/j.ijbiomac.2024.136235
2.	Acharya A., G. Tripathi, K.D. Rasal, M.A. Pathan, R.A.H. Bhat, C. Dinakaran and R.B. Rathinam (2024) Biotic and abiotic stress affects the stability of housekeeping genes in <i>Labeo catla</i> . Journal of Aquatic Animal Health, 36 (4): 330-341. https://doi.org/10.1002/aah.10234
3.	Bhat R.A.H., V.C. Khangembam, V. Pant, R.S. Tandel, P.K. Pandey and D. Thakuria (2024) Antibacterial activity of a <i>short de novo</i> designed peptide against fish bacterial pathogens. Amino Acids, 56 (1): 28. https://doi.org/10.1007/s00726-024-03388-4
4.	Bhat R.A.H., M.J. Sidiq and I. Altinok (2024) Impact of microplastics and nanoplastics on fish health and reproduction. Aquaculture, 590:741037. https://doi.org/10.1016/j.aquaculture.2024.741037
5.	Ciji A., M.S. Akhtar, P.H. Tripathi, M.K. Dubey and P. Sharma (2024) Higher intake of β -glucan impairs reproduction in a female teleost, <i>Tor putitora</i> (Hamilton, 1822). Fish Physiology and Biochemistry, 50 (2): 589-603. https://doi.org/10.1007/s10695-023-01292-4
6.	Denoed F., O. Godfroy, C. Cruaud, S. Heesch, Z. Nehr, N. Tadrent, A. Couloux, A. Khatei, L. Brillet-Guéguen, L. Delage, D. Mckeown and T. Motomura (2024) Evolutionary genomics of the emergence of brown algae as key components of coastal ecosystems. Cell, 187 (24): 6943-6965. https://doi.org/10.1016/j.cell.2024.10.049
7.	Ganie P.A., R. Posti and P.K. Pandey (2024) Exploring and modelling the hydro-morphological landscape of a Himalayan basin: a geospatial study of Nandakini Basin in Uttarakhand, India. Discover Geoscience, 2 (1): 27. https://doi.org/10.1007/s44288-024-00032-2
8.	Ganie P.A., R. Posti, K. Kunal, N. Pandey and P.K. Pandey (2024) Morphometric analysis and hydrological implications of the Himalayan River Basin, Goriganga, India, using Remote Sensing and GIS techniques. Journal of Groundwater Science and Engineering, 12 (4): 360-386. http://dx.doi.org/10.26599/JGSE.2024.9280028
9.	Gauci C., A. Jueterbock, A. Khatei, G. Hoarau and I. Bartsch (2024) Thermal priming of <i>Saccharina latissima</i> : a promising strategy to improve seaweed production and restoration in future climates. Marine Ecology Progress Series, 745: 59-71. https://www.int-res.com/articles/meps_oa/m745p059.pdf
10.	Gehlot B., S. Chandra, R. Joshi, M. Arya and R. Chakrabarti (2024) Temporal variations in plankton communities and environmental factors in the Shipra, a Central Himalayan tributary of the Kosi River in Uttarakhand, India. Environmental Monitoring and Assessment, 196 (3): 326. https://doi.org/10.1007/s10661-024-12513-5
11.	Giri A.K., N. Pandey, S.K. Mallik, P. Das, H.C.S. Bisht and P.K. Pandey (2024) Performance evaluation of hydroponic grow-outs in an innovative coldwater aquaponic system featuring rainbow trout and lettuce. Asian Fisheries Science, 37 (3): 149-158. https://doi.org/10.33997/j.afs.2024.37.3.002
12.	Jaffer Y.D., I.A. Bhat, I.N. Mir, R.A.H. Bhat, M.J. Sidiq and P. Jana (2024) Adaptation of cultured decapod crustaceans to changing salinities: physiological responses, molecular mechanisms and disease implications. Reviews in Aquaculture, 16 (4): 1520-1543. https://doi.org/10.1111/raq.12909
13.	Jethi R., K. Joshi and L. Kant (2024) Farmer's preferences to variety traits and sowing methods in wheat production technology in Uttarakhand Hills, India. Journal of Community Mobilisation and Sustainable Development, 19 (4): 1235-1242. http://dx.doi.org/10.5958/2231-6736.2024.00247.3
14.	Joshi P., G.S. Mahra, R. Jethi, Satyapriya, R. Singh, S. Bishnoi, S. Sahu, S. Barua, S. Sarkar and R.R. Burman (2024) Ergonomics assessment of drudgery in rice-wheat production system in India: a case study of women farmers. Frontiers in Sustainable Food Systems, 8: 1346980. https://doi.org/10.3389/fsufs.2024.1346980
15.	Kala K., S.K. Mallik, N. Shahi, R. Pathak, P. Sharma, S. Chandra, R.S. Patiyal, V. Pande, N. Pandey, A. Pande and P.K. Pandey (2024) Emergence of <i>Aeromonas salmonicida</i> subsp. <i>masoucida</i> MHJM250: unveiling pathological characteristics and antimicrobial susceptibility in

	golden mahseer, <i>Tor putitora</i> (Hamilton, 1822) in India. Veterinary Research Communications, 48 (6): 3751-3772. https://doi.org/10.1007/s11259-024-10518-6
16.	Khangembam V.C., D. Thakuria, R.S. Tandel, V. Pant, N. Pandey and P.K. Pandey (2024) Identification and antifungal sensitivity of <i>Fusarium</i> species isolated from piscine hosts. Diseases of Aquatic Organisms, 159: 117-126. https://doi.org/10.3354/dao03809
17.	Khatei A., J. Parhi, D.U. Behera, P.S. Tripathy, S.C. Mandal and B.K. Behera (2024) Genes associated with cell modelling provide new insights into spermiation mechanism in <i>Cyprinus carpio</i> . Current Research in Biotechnology, 8: 100262. https://doi.org/10.1016/j.crbiot.2024.100262
18.	Kumar S., A. Saxena, R.K. Srivastava, S.B. Singh, R.N. Ram, P.A. Ganie, R. Posti and N. Pandey (2024) Composition of heavy metals in sediment, water, and fish of the Ganga and Yamuna Rivers in two major cities of India. Environmental Monitoring and Assessment, 196 (7): 612. https://doi.org/10.1007/s10661-024-12777-x
19.	Laskar M.A., D. Sarma, R. Nath, R. Kharbani, N. Shahi, R.S. Haldar and P.A. Ganie (2024) Morphometric trait normalization, cluster analysis and molecular phylogenetic analysis in delimiting sympatric <i>Neolissochilus hexastichus</i> and <i>N. hexagonolepis</i> in Umngi River, Meghalaya (India). Journal of Environmental Biology, 45 (6): 705-713. https://www.jeb.co.in/journal_issues/202411_nov24/paper_08.pdf
20.	Mallik S.K., P.K. Patil, N. Shahi, K. Kala, S. Singh, R. Pathak, R.S. Tandel, A. Pande and P.K. Pandey (2024) Assessing safety, efficacy and residue depletion in golden mahseer, <i>Tor putitora</i> (Hamilton, 1822): biochemical and physiological responses to graded concentrations of oxytetracycline dietary supplementation. Veterinary Research Communications, 48 (3): 1573-1593. https://doi.org/10.1007/s11259-024-10340-0
21.	Mandal S.C., P.S. Tripathy, A. Khatei, N.C. Devi, P. Biswas, J.K. Sundaray, F. Hoque and J. Parhi (2024) Effect of vegetable oil on ovarian steroidogenesis - A transcriptome approach to understand molecular mechanisms of hypothalamus pituitary and gonad axis (HPG) in <i>Ompok bimaculatus</i> . PloS One, 19 (12): e0309311. https://doi.org/10.1371/journal.pone.0309311
22.	Pande A., D. Thakuria, B. Kushwaha, R. Kumar, S. M., A. Rastogi and N. Sood (2024) A cell line derived from heart of rainbow trout is refractory to Tilapia Lake virus. Cell Biology International, 48 (3): 347-357. https://doi.org/10.1002/cbin.12125
23.	Pant V., V.C. Khangembam, D. Thakuria, R.A.H. Bhat, N. Pandey, A. Pande and P.K. Pandey (2024) Anti-oomycete activity of chloramine-T against <i>Saprolegnia</i> species isolated from rainbow trout. Turkish Journal of Fisheries and Aquatic Sciences, 25 (2): , TRJFAS25510. https://doi.org/10.4194/TRJFAS25510
24.	Pathak R., S.K. Mallik, P.K. Patil, K. Kala, N. Shahi, R.K. Nadella, N. Pandey, K. Kunal and P.K. Pandey (2024) Assessing the effect of therapeutic level of oxytetracycline dihydrate on pharmacokinetics and biosafety in <i>Oncorhynchus mykiss</i> (Walbaum, 1792). Scientific Reports, 14 (1): 22752. https://doi.org/10.1038/s41598-024-73921-8
25.	Sarma D., M. Arya, R. Posti, D. Mohan, P. Das and P.A. Ganie (2024) Snow trout fishes (<i>Schizothorax</i> spp.) of the Asiatic region: A review enlightening distribution, diversity and conservation issue. Indian Journal of Fisheries, 71 (2):150-164. https://doi.org/10.21077/ijf.2024.71.2.124800-20
26.	Sarmah R., U.K. Das, D. Sarma and N. Shahi (2024) Morphometric and molecular assessment of <i>Tor putitora</i> and <i>Neolissochilus hexagonolepis</i> population in Jia Bhoroli river ecotone zone, Assam. Indian Journal of Animal Research, B-5156: 1-8. https://doi.org/10.18805/IJAR.B-5156
27.	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 basidiobolomycosis as an outbreak in a coldwater fish species rainbow trout, <i>Oncorhynchus mykiss</i> (Walbaum, 1792) in India. Aquaculture International, 32 (1): 795-815. https://doi.org/10.1007/s10499-023-01190-9
28.	Sidiq M.J., A. Ciji, C. Siva, N.K. Chadha, P.B. Sawant, P.K. Pandey and M.S. Akhtar (2024) Ambient ultraviolet-B exposure brings quantum changes in phenotypic and molecular signatures of the embryo of a high-altitude fish, <i>Tor putitora</i> . Environmental Science and Pollution Research, 31 (59): 67121-67139. https://doi.org/10.1007/s11356-024-35627-2
29.	Tripathy P.S., S.S. Dash, N.C. Devi, S.C. Mandal, P.K. Pandey, J. Parhi, B.K. Behera and A. Khatei (2024) Unveiling the molecular mechanisms of pigmentation control in Queen Loach, <i>Botia</i>

dario (Hamilton, 1822): insights from sesame seed and marigold-induced antityrosinase effects. Journal of Animal Physiology and Animal Nutrition, 108 (5): 1453-1467.
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