

ICAR-CICFR (formerly ICAR-DCFR) Publications- 2020

1.	Akhtar, M.S. and Ciji, A., 2020. Pyridoxine and its biological functions in fish: current knowledge and perspectives in aquaculture. <i>Reviews in Fisheries Science & Aquaculture</i> , 29(2), pp.260-278. https://doi.org/10.1080/23308249.2020.1813081
2.	Akhtar, M.S., Pandey, N.N., Sarma, D. and Ciji, A., 2020. Evaluation of Microparticulate Diets for Larval Rearing of Endangered Fish, Golden Mahseer (<i>Tor putitora</i>). <i>Journal of Krishi Vigyan</i> , 9: 90–95. http://dx.doi.org/10.5958/2349%E2%80%93934433.2020.00087.2
3.	Akhtar, M.S., Rajesh, M., Kamalam, B.S. and Ciji, A., 2020. Effect of photoperiod and temperature on indicators of immunity and wellbeing of endangered golden mahseer (<i>Tor putitora</i>) broodstock. <i>Journal of Thermal Biology</i> , 93, p.102694. https://doi.org/10.1016/j.jtherbio.2020.102694
4.	Ali, S. and Kumar, P., 2020. Testing Predictions from an Environmental Stress Model on Macroinvertebrate Diversity Across Rocky Intertidal Elevation Gradients in Mumbai, India: S. Ali, P. Kumar. <i>National Academy Science Letters</i> , 43(4), pp.311-316. https://doi.org/10.1007/s40009-019-00860-8
5.	Baruah, D., Posti, R., Dutta, A. and Pravin, P., 2020. Drive-in-net fishing technique in the Brahmaputra River valley. <i>Journal of krishi vigyan. Упродумелу: Diva Enterprises Private Limited</i> , 9, pp.63-67. http://dx.doi.org/10.5958/2349-4433.2020.00081.1
6.	Baruah, D., Posti, R., Ganie, P.A. and Kunal, K., 2020. GIS application in mapping and development of Trout Fisheries resources along Yargyap Chu drainage in Eastern Himalayas. <i>J Krishi Vigyan</i> , 8(2), pp.150-156. http://dx.doi.org/10.5958/2349-4433.2020.00032.X
7.	Bhat, R.A.H., Rehman, S., Tandel, R.S., Dash, P., Bhandari, A., Ganie, P.A., Shah, T.K., Pant, K., Yousuf, D.J., Bhat, I.A. and Chandra, S., 2021. Immunomodulatory and antimicrobial potential of ethanolic extract of Himalayan <i>Myrica esculanta</i> in <i>Oncorhynchus mykiss</i> : Molecular modelling with <i>Aeromonas hydrophila</i> functional proteins. <i>Aquaculture</i> , 533, p.736213. https://doi.org/10.1016/j.aquaculture.2020.736213
8.	Bhat, R.A.H., Thakuria, D., Pant, V., Khangembam, V.C., Tandel, R.S., Shahi, N., Sarma, D., Tripathi, G., Krishnani, K.K. and Krishna, G., 2020. Antibacterial and antioomycete activities of a novel designed RY12WY peptide against fish pathogens. <i>Microbial pathogenesis</i> , 149, p.104591. https://doi.org/10.1016/j.micpath.2020.104591
9.	Chaturvedi, P., Bhat, R.A.H. and Pande, A., 2020. Antimicrobial peptides of fish: Innocuous alternatives to antibiotics. <i>Reviews in Aquaculture</i> , 12(1), pp.85-106. https://doi.org/10.1111/raq.12306
10.	Ciji, A. and Akhtar, M.S., 2020. Nitrite implications and its management strategies in aquaculture: a review. <i>Reviews in Aquaculture</i> , 12(2), pp.878-908. https://doi.org/10.1111/raq.12354
11.	Ciji, A., Akhtar, M.S., Tripathi, P.H., Pandey, A., Rajesh, M. and Kamalam, B.S., 2021. Dietary soy lecithin augments antioxidative defence and thermal tolerance but fails to modulate non-specific immune genes in endangered golden mahseer (<i>Tor putitora</i>) fry. <i>Fish & shellfish immunology</i> , 109, pp.34-40. https://doi.org/10.1016/j.fsi.2020.11.031
12.	Ciji, A., Sharma, P., Rajesh, M., Kamalam, B.S., Sharma, A., Dash, P. and Akhtar, M.S., 2021. Intra-annual changes in reproductive indices of male and female Himalayan snow trout, <i>Schizothorax richardsonii</i> (Gray, 1832). <i>Aquaculture Research</i> , 52(1), pp.130-141. https://doi.org/10.1111/are.14875
13.	Vishal Datta, V.D., Bisht, H.C.S., Pandey, N.N., Dinesh Mohan, D.M., Preetam Kala, P.K., Vishwakarma, B.K. and Sheetal Sharma, S.S., 2020. Dominance of male sex and non-synchronisation in gonadal maturity of rainbow trout. <i>Journal of Experimental Zoology India</i> , 23(1). https://www.cabidigitallibrary.org/doi/pdf/10.5555/20203130884

14.	Hussain, S.M., Baruah, D. and Pathak, M., 2020. Performance of Amur Common carp Breed in East Siang District of Arunachal Pradesh. <i>Journal of Krishi Vigyan</i> , 9 (si): 244–247. http://dx.doi.org/10.5958/2349-4433.2020.00110.5
15.	Hussna, I.A., Asmi, O., Shah, F., Bhat, B., Hussain, T., Hafeez, M., Rashid, S., Razak, N. and Hussain, R.A., 2020. RNA: DNA ratio as an indicator of growth, nutritional status and condition of fish: A review. <i>J Entomol Zool Stud</i> , 8, pp.654-658. https://www.entomoljournal.com/archives/?year=2020&vol=8&issue=6&ArticleId=7921
16.	Inaotombi, S. and Sarma, D., 2021. Factors influencing distribution patterns of cyanobacteria in an upland lake of the Kumaun Himalayas, India. <i>Archives of Environmental & Occupational Health</i> , 76(3), pp.123-133. https://doi.org/10.1080/19338244.2020.1760190
17.	Inaotombi, S. and Sarma, D., 2020. Vegetation affects photoprotective pigments and copepod distribution in the Himalayan lakes: Implication for climate change adaptation. <i>Science of the Total Environment</i> , 716, p.137053. https://doi.org/10.1016/j.scitotenv.2020.137053
18.	Kumar, P., Ingole, N.A., Ganie, P.A., Posti, R., Saxena, A.K. and Ahmad, Z., 2020. Assessment of fishery resources in Trans Himalayas of union territory Ladakh region (India) using geographical information system. <i>Journal of Experimental Zoology India</i> , 23(2). https://www.cabidigitallibrary.org/doi/pdf/10.5555/20203390956
19.	Mallik, S.K., Joshi, N., Shahi, N., Kala, K., Singh, S., Giri, A.K., Pant, K. and Chandra, S., 2020. Characterization and pathogenicity of <i>Aeromonas veronii</i> associated with mortality in cage farmed grass carp, <i>Ctenopharyngodon idella</i> (Valenciennes, 1844) from the Central Himalayan region of India. <i>Antonie van Leeuwenhoek</i> , 113(12), pp.2063-2076. https://doi.org/10.1007/s10482-020-01478-3
20.	Mallik, S.K., Shahi, N., Joshi, N., Pant, K., Kala, K., Chandra, S. and Sarma, D., 2020. The emergence of zoonotic <i>Fusarium oxysporum</i> infection in captive-reared fingerlings of golden mahseer, <i>Tor putitora</i> (Hamilton, 1822) from the central Himalayan region of India. <i>Transboundary and emerging diseases</i> , 67(2), pp.555-563. https://doi.org/10.1111/tbed.13367
21.	Pandey N.N., B.K. Vishwakarma and R.S. Patiyal (2020). Ichthyofaunal diversity of Alaknanda river in Uttarakhand. <i>International Journal of Ecology and Environmental Sciences</i> , 2(3): 224–229. https://www.ecologyjournal.in/assets/archives/2020/vol2issue3/2-3-110-699.pdf
22.	Patiyal, R.S., Mir, M.I., Pandey, N., Rajesh, M., Sarma, D. and Chandra, S., 2020. Study on embryonic and larval developmental stages of Sucker head <i>Garra gotyla</i> (Gray 1830; Teleostei; Cyprinidae). <i>Zygote</i> , 28(5), pp.349-359. https://doi.org/10.1017/s0967199419000698
23.	Posti, R. and Baruah, D., 2020. Geospatial analysis of fishery resources in west Kameng District of Arunachal Pradesh. <i>Journal of Krishi Vigyan</i> , 9(si), pp.131-136. http://dx.doi.org/10.5958/2349-4433.2020.00094.X
24.	Shahi, N. and Mallik, S.K., 2020. Emerging bacterial fish pathogen <i>Lactococcus garvieae</i> RTCLI04, isolated from rainbow trout (<i>Oncorhynchus mykiss</i>): Genomic features and comparative genomics. <i>Microbial pathogenesis</i> , 147, p.104368. https://doi.org/10.1016/j.micpath.2020.104368
25.	Shahi, N., Mallik, S.K., Kala, K., Joshi, N., Patiyal, R.S., Chandra, S., Singh, S. and Sarma, D., 2020. Seasonal emergence of benign epidermal tumor in farm-reared adult grass carp (<i>Ctenopharyngodon idella</i>) caused by lymphocystis disease virus at Uttarakhand, India. <i>Aquaculture</i> , 526, p.735408. https://doi.org/10.1016/j.aquaculture.2020.735408
26.	Sharma, A., Siva, C., Ali, S., Sahoo, P.K., Nath, R., Laskar, M.A. and Sarma, D., 2020. The complete mitochondrial genome of the medicinal fish, <i>Cyprinion semiplotum</i> : Insight

	into its structural features and phylogenetic implications. <i>International Journal of Biological Macromolecules</i> , 164, pp.939-948. https://doi.org/10.1016/j.ijbiomac.2020.07.142
27.	Siddiqui, U., Bisht, H.C.S. and Pandey, N.N., 2020. Effects of experimental infection with <i>Aeromonas hydrophila</i> on different blood parameters and hematopoietic tissue in <i>Schizothorax richardsonii</i> . <i>Journal of Experimental Zoology India</i> , 23(1). https://connectjournals.com/file_full_text/3072701H_173-178.pdf
28.	Siddiqui, U., Shah, R.H., Rani, A., Tudu, K., Kumar, S., Bisht, H.C.S. And Pandey, N., 2020. Comparative study of hematological variation in healthy and fungal infected Kalabans, <i>Bangana dero</i> (Hamilton, 1822). <i>Iranian Journal of Fisheries Sciences</i> , 19(1), pp.501-509. https://jifro.ir/article-1-2883-en.pdf
29.	Singh, R., Pandey, N.N., Gupta, M. and Singh, A.K., 2020. Advancement in spawning period of <i>Labeo dyocheilus</i> (McClelland, 1839) in the mid Himalayan regions by hormonal manipulation using Ovotide. <i>Indian Journal of Fisheries</i> , 67(3), pp.164-167. https://epubs.icar.org.in/index.php/IJF/article/view/88302/42324
30.	Vishwakarma, B.K., Bisht, H.C.S., Pandey, N.N., Kala, P., Mohan, D. and Kumar, S. 2020. Egg incubation and larval rearing of rainbow trout (<i>Onchorhynchus mykiss</i>) at higher thermal regime in mid hills. <i>Journal of Entomology and Zoology Studies</i> , SP-8(4): 05–07. https://www.entomoljournal.com/archives/2020/vol8issue4S/PartA/S-8-4-4-525.pdf
31.	Vishwakarma B.K., S. Sharma and N.N. Pandey (2020). Ichthyofaunal diversity of Bhagirathi River after construction of Koteswar dam in Uttarakhand. <i>Journal of Experimental Zoology India</i> , 23(1): 711–714. https://connectjournals.com/file_full_text/3082401H_711-714.pdf
32.	Yashwanth, B.S., Goswami, M., Kooloth Valappil, R., Thakuria, D. and Chaudhari, A., 2020. Characterization of a new cell line from ornamental fish <i>Amphiprion ocellaris</i> (Cuvier, 1830) and its susceptibility to nervous necrosis virus. <i>Scientific Reports</i> , 10(1), p.20051. https://doi.org/10.1038/s41598-020-76807-7
33.	Yousuf, D.J., Phulia, V., Bhat, I.A., Nazir, M.I., Rasool, I., HB, R.A. and DS, B., 2020. Kairomones: Interspecific Chemical Signalling System in Aquatic Ecosystems. <i>World Journal of Aquaculture Research and Development</i> , 2(1): 1007. https://www.medtextpublications.com/open-access/kairomones-interspecific-chemical-signalling-system-in-aquatic-ecosystems-384.pdf