

Bhimtal- 263136, Distt. Nainital, Uttarakhand, India Phone: 05942-247280, Fax: 05942-247693



Scientist Profile

Name

Designation

Qualification

Email Address

Professional experience (Years) Area of Research Expertise

Google scholar link

ORCID ID

Awards/ Recognitions

Dr. Ciji Alexander

Scientist (Senior scale), ARS

M.F.Sc, PhD

ciji.alexander@icar.gov.in cijialex83@gmail.com

09 years

Fish Nutrition, Broodstock nutrition, Immunomodulation and stress mitigation in fish.

https://scholar.google.com/citations?hl=en&user=O_sKP

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0000-0001-6407-7590

- 1. Conferred "Jawaharlal Nehru Award for outstanding doctoral thesis research in Agricultural and allied sciences-2013" by the Indian Council of Agricultural Research (ICAR), New Delhi.
- 2. Received "Dr. Karunasagar Best Post-Graduate Thesis (Ph.D. Indian category) Award for the year 2013" by the Professional Fisheries Graduate Forum (PFGF).
- 3. Received "Kerala Agricultural University Endowment Fish Processing Best Student Award" of B.F.Sc 2001 batch.
- 4. Awarded with "Kerala Agricultural University Merit Scholarship" for pursuing under graduation.
- 5. Awarded with "CIFE Fellowship" for pursuing post graduation and PhD programmes in ICAR-Central Institute of Fisheries Education, Mumbai.

Publication (no.)

Research papers 51
Review papers 03

Books 01 (Authored)

Book chapters 09 Scientific popular articles 10

Others:

Technical bulletins and leaflets 05
NCBI Genbank submissions 50
Patent (filed) 01
Technology commercialized 01





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Projects (Institutiona 1/ External)

Institutional Projects:

- 1. Nutritional intervention for improving reproductive competence and larval quality traits of golden mahseer, *Tor putitora* in captivity (Project code: AQ 21b; 2020-2023; PI).
- 2. Endocrine aspects of growth and maturation in snow trout, *Schizothorax richardsonii* (2015-2019, PI)
- 3. Optimizing reproductive and spawning performance of golden mahseer (*Tor putitora*) for upscaling its seed production in captivity (Project code: AQ 16d; 2018-2022; Co-PI).
- 4. Unravelling thermal and size dependent fertility traits of male golden mahseer brooders in captive conditions (Project code: AQ18-SP10; 2022-2025; Co-PI).
- 5. Development and validation of cost effective feed formulation for rainbow trout based on commercial scale industrial byproducts (Project code: AQ 21a; 2018-2021; Co-PI).
- 6. Formulation, development and validation of efficient broodstock feed for rainbow trout (Project code: AQ 21c; 2020-2023; Co-PI).
- 7. Development and validation of cost effective commercial rainbow trout feeds and nutrient sensitive feed management strategies (Project code: AQ 21d; 2021-2024; Co-PI).
- 8. Nutrient mediated metabolic regulation of growth and well being in snow trout, *Schizothorax richardsonii* (Project code: AQ 17b; 2015-2019; Co-PI)
- 9. Photo-thermal manipulations for gonadal development of golden mahseer in captivity (Project code AQ16a; 2014-2018, Co-PI).

Externally Funded Projects:

- 1. Immunomodulation in golden mahseer (*Tor putitora*) broodstock in captive conditions (BT/PR26920/AAQ/3/884/2017; 2018-2021, Co-PI).
- 2. Development of climate resilient rainbow trout and innovative trout farming strategies to mitigate climatic stressors (2017-2025, Co-PI).
- 3. Outreach activity-3: Nutrient profiling and evaluation of fish as a dietary component (Outreach activity-3 for 12th plan) (2014-2018, Co-PI).



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Ten important recent publications

- 1. **Ciji, A.,** Akhtar, M.S., Dubey, M.K., Pandey, A., Tripathi, P.H., Kamalam, B.S., Rajesh, M. and Sharma, P., 2022. Comparative assessment of egg and larval quality traits of progeny from wild-collected and captive matured brooders of endangered golden mahseer, *Tor putitora*: A prelude to quality broodstock development and seed production. *Aquaculture*, 552: 737949. https://doi.org/10.1016/j.aquaculture.2022.737949 (IF: 5.135).
- 2. **Ciji, A.,** Akhtar, M.S., Tripathi, P.H., Pandey, A., Rajesh, M. and Kamalam, B.S., 2021. Dietary soy lecithin augments antioxidative defense and thermal tolerance but fails to modulate non-specific immune genes in endangered golden mahseer (*Tor putitora*) fry. *Fish and Shellfish Immunology*, 109:

 34-40. https://doi.org/10.1016/j.fsi.2020.11.031(IF:4.622).
- 3. **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, *Schizothorax richardsonii* (Gray, 1832). *Aquaculture Research*, 52(1): 130-139. https://doi.org/10.1111/are.14875 (IF: 2.184).
- 4. **Ciji, A.** and Akhtar, M.S., 2021. Stress management in aquaculture: a review of dietary interventions. *Reviews in Aquaculture*, 13(4): 2190-2247. https://doi.org/10.1111/raq.12565. (IF: 10.618)
- 5. **Ciji, A.** and Akhtar, M.S., 2020. Nitrite implications and its management in aquaculture: a review. *Reviews in Aquaculture*, 12(2): 878-908. https://doi.org/10.1111/raq.12354 (IF: 10.618)

5.135)



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- Akhtar, M. S., Ciji, A*., Tripathi, P. H. and Sharma, P., 2021. Dietary β-glucan influences the expression of testicular aquaporins, antioxidative defence genes and sperm quality traits in endangered golden mahseer, *Tor putitora* (Hamilton, 1822). *International Journal of Biological Macromolecules*. 193: 1286-1293. https://doi.org/10.1016/j.ijbiomac.2021.10.177 (IF: 8.025)
- 8. Akhtar, M. S., Tripathi, P. H., Pandey, A. and **Ciji A***., 2021. Transgenerational effects of β-glucan on thermal tolerance, growth performance, and immune gene expression of endangered cyprinid *Tor putitora* progeny. *Journal of Thermal Biology*, 102: 103120. https://doi.org/10.1016/j.jtherbio.2021.103120 (IF: 3.189)
- 9. Akhtar, M. S., Tripathi, P. H., Pandey, A. and **Ciji A***., 2021. β-glucan modulates non-specific immune gene expression, thermal tolerance and elicits disease resistance in endangered *Tor putitora* fry challenged with *Aeromonas salmonicida*. *Fish and Shellfish Immunology*, 119: 154-162. https://doi.org/10.1016/j.fsi.2021.09.038 (IF:4.622)
- 10.Akhtar M.S., Manchi R., Kamalam B.S., **Ciji. A***., 2020. Effect of photoperiod and temperature on indicators of immunity and wellbeing of endangered golden mahseer (*Tor putitora*) broodstock. *Journal of Thermal Biology*, 93: 102694. https://doi.org/10.1016/j.jtherbio.2020.102694 (IF: 3.189).

Other information s

As on August 2022:

Total citations: 854

h-index: 17 i10 index: 23