ICAR- DIRECTORATE OF COLDWATER FISHERIES RESEARCH

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Scientist Profile

Name	**Dr. Shahnawaz Ali**
Designation	Senior Scientist
Qualification	M.F.Sc, Ph.D
Email Address	Shahnawaz.ali@icar.gov.in
Professional experience (Years)	14 years
Area of Research Expertise	Fish molecular genetics, Physiological adaptation in fishes, Applied aquaculture
Google scholar link	https://scholar.google.com/citations?hl=en&user=UDe9e9MAAAAJ
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Awards/ Recognitions

- Recipient of **"Senior Research Fellowship"** from **Council of Scientific & Industrial Research (CSIR)**, New Delhi for PhD research work at CIFE, Mumbai.
- Awarded Fellowship from Academy of Environmental Biology (FAEB), Lucknow

Publication (no.)

▪ **Research papers**	**35**
▪ **Reviews**	**-**
▪ **Books**	**-**
▪ **Book Chapters**	**06**
▪ **Popular articles**	**18**
▪ **Others (Bulletins)**	**05**

Projects (Institutional/ External)

Institutional:

- Evaluation of the effect of different temperatures on sex differentiation and sex ratio in golden mahseer (*Tor putitora*) (2022-2025)
- Development of complete mitochondrial genome and phylogeny of selected coldwater fish species (2021-2024)
- Gender specific transcriptomic response to environmental stress in golden mahseer (*Tor putitora*)(2018-2022)
- Transcriptome based sex specific marker discovery in adult golden mahseer (*Tor putitora*) (2017-2021)

External:

- Translating the native fish germplasm for socio-economic benefits through aquaculture and fisheries in Himalayan region (2022-2025)
- National Mission for Sustaining the Himalayan Ecosystems- Ecosystem Monitoring -ICAR-DCFR Component: Sustainable Development of Coldwater Fisheries in Himalayan Regions of India (2015-2020)

Important 10 Publications (recent)

- 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, *Cyprinion semiplotum*: Insight into its structural features and phylogenetic implications. Int. J. Biol. Macromol. 164:939-948.doi: https://doi.org/10.1016/j.ijbiomac.2020.07.142
- Barat, A., Sahoo, P.K., Kumar, R., Goel, C., Siva, C. and **Ali, S.**, 2019. Data on solute carrier transporter genes of a threatened Himalayan fish species- *Schizothorax richardsonii*, Data in Brief, https://doi.org/10.1016/j.dib.2019.103712.
- Sharma, L., **Ali, S.,** Siva, C., Kumar, R., Barat, A., Sahoo, P.K. and Pande, V., 2019. Genetic diversity and population structure of the threatened chocolate mahseer (*Neolissochilus hexagonolepis* McClelland 1839) based on SSR markers: implications for conservation management in Northeast India. Molecular Biology Reports, 46:5237–5249. https://doi.org/10.1007/s11033-019-04981-7
- **Ali, S.** and Kumar, P., 2019. Testing predictions from an environmental stress model on macroinvertebrate diversity across rocky intertidal elevation gradients in Mumbai, India. Natl. Acad. Sci. Lett. 43:311-316. https://doi.org/10.1007/s40009-019-00860-8
- Sharma, A., **Ali, S**., Sahoo, P.K., Nath, R., Sarma, D. and Siva, C., 2019. A synopsis of the scientific information and utilization potential of the Assamese Kingfish. Journal of Entomology and Zoology Studies, 7: 1463-1469.
- Singh, A.K., Pandey, N.N. and **Ali, S.** 2017. Current Status and Strategies of Rainbow Trout *Oncorhynchus mykiss* Farming in India. International Journal of Aquaculture, 7(4):23-30. DOI: 10.5376/ija.2017.07.0004.
- Pandey, N.N., Gupta, M., Singh, R., **Ali S**., Haldar, R.S., Kumar, P. and Singh, A.K., 2017. Breeding performance of indigenous carp, *Labeo dero* in captivity under cold water condition of Uttarakhand, India. *J. Env. Biol*., 38:771-775. DOI : http://doi.org/10.22438/jeb/38/5/MRN-384
- **Ali, S.,** Pandey N.N., Kumar, P., Posti, R. and Singh, A.K., 2018. Response of fish communities to abiotic factors in River Western Ramganga, Kumaun Lesser Himalaya, India. ***Curr. Sci***., 114 (10): 2181-2188. doi: 10.18520/cs/v114/i10/2175-2181
- Sharma, L., **Ali, S.,** Barat, A., Kumar, R., Pande, V., Laskar, M.A., Sahoo, P.K. and Sumer, S. 2018. Molecular identification and genetic diversity analysis of Chocolate mahseer (*Neolissochilus hexagonolepis*) populations of Northeast India, using mitochondrial DNA markers. Mitochondrial DNA Part A, https://doi.org/10.1080/24701394.2018.1526929.
- Sahoo, P.K., Singh, L., Sharma, L., Kumar, R., Singh, V.K., **Ali, S.,** Singh, A.K. and Barat, A. 2016. The complete mitogenome of brown trout (*Salmo trutta fario*) and its phylogeny. Mitochondrial DNA, 27(6): 4563-4565. DOI: 10.3109/19401736.2015.110156

Other information's

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