



# ICAR-National Bureau of Fish Genetic Resources

Canal Ring Road, Dilkusha PO, Lucknow-226002, India



**Name**

**Dr. KRIPAL DATT JOSHI**

**Designation**

Principal Scientist

**Date of birth**

06.10. 1959



**Professional experience**

Above 26 years

**Qualification (PG and above)**

- M.Sc., Ph. D.  
(Kumaun University, Nainital)
- P.G. Dip. in Ecology & Environments  
(Indian Institute of Ecol. & Env't, New Delhi)

**Current area of Research**

- Inland Open water Fisheries
- Impact assessment of alien fish species
- Conservation of fish & fisheries resources

**Area of Research**

**Expertise**

- Inland Open water Fisheries-rivers, wetlands & reservoirs
- Environmental flow with reference to fisheries
- Environmental Impact Assessment
- Coldwater aquaculture & breeding
- Impact Assessment of Climate changes on fisheries
- Reproductive biology
- Fish migration
- Honorary Fellow, Bioved Research Institute of Science & Technology, Allahabad, U.P., India
- Fellow, Nature Conservators (NATCON), Muzaffarnagar, India
- Fellow, Indian Academy of Environmental Sciences, Haridwar,
- Member, Expert Appraisal Committee, Ministry of Environments, Forests & Climate Changes, Government of India, for Environmental Clearance of Hydro-electric & Irrigation Projects (during 2010-13 & 2013-16)
- Member of a Committee constituted by Hon'ble National Green Tribunal, New Delhi for Kanhar project ( during 2015-16)

**Awards/ Recognitions (only National and International)**

**Publication (no.)**

- **Research papers** 74
- **Books (edited)** 4
- **Book Chapters** 12
- **Popular articles** 21
- **Bulletins** 7
- **Others Databases CD-ROM Training Manual** 1
- **Training chapters** 3

## Important Research Publications

**Joshi, K.D.** and P.C.Joshi, 1989. Seasonal cycle of testicular maturation and interstitial cell activity in a hill stream teleost, *Puntius dukai* (Day). *Indian Journal of Fish.* 36 (1): 58 – 64.

Das, P. and **K.D. Joshi**, 1992. Conservation of fish germplasm in India. *Aquatic Environment* (Ed.A.Gautam), p. 106 – 111. Ashish Publication House, New Delhi.

Das, P. and **K.D. Joshi**, 1992. Anthropogenic stresses affecting fish germplasm resources of the Ganga river system. *Environment and Biodegradation* (Eds. V.P.Agarwal and S.V.S.Rana). p.285 – 292. Society of Biosciences, Muzaffarnagar.

Das, P. and **K.D. Joshi**, 1992. Fish in troubled water. *Indian Farming* (Special issue), 42 (2): 19 –26.

Das, P. and **K.D.Joshi**, 1993. Why sustainable fish harvesting? *Intensive Agriculture*. Sept. – Oct.: 18 – 22.

Das, P. and **K.D.Joshi**, 1994. Status of fish genetics in India. *Agri. Situation India.* : 737 – 739.

Das, P. and **K.D. Joshi**, 1994. Mahseer conservation – Present and Future. *Mahseer –the Game Fish* (Ed. P.Nautiyal), p. D 3 – 9. Rachna Publication, Srinagar.

Das, P. and **K. D. Joshi**, 1994. Indias fish germplasm resource conservation. *Environment and Applied Biology*. P. 99 – 108.

Das, P. and **K.D. Joshi**, 1994. Genetics in conservation of fish germplasm resources. *Journal Inland Fish. Soc.* **26** (2): 39-42.

**Joshi, K.D.** 1999. Piscine diversity in Kumaun rivers (Central Himalaya). *Journal Inland Fish. Soc.* 31 (2): 20 – 24.

**Joshi, K.D.**, 2003. Prospects of fisheries development in Uttaranchal State. *Fishing Chimes* 22(10-11): 62-66.

**Joshi, K.D.** 2004. Artificial breeding and rearing of *Schizothorax richardsonii* (Gray). *Indian Journal of Fish.* **51** (2): 233-237.

**Joshi, K.D.**, K.K.Vass and H.S.Raina, 2005. Experiments on rearing of rainbow trout, *Oncorhynchus mykiss* (Walbaum) in Central Himalaya. *Indian Journal of Fish.* **52** (3):331-337.

**Joshi, K.D. 2007.** Preliminary observations on rearing of a rare hill stream fish, *Naziritor chelynoides* (Mc Clelland) under pond environment. *Indian Journal of Fish.* **54**(4):423-425.

**Joshi, K.D. 2009.** Brood stock maturity and artificial breeding of rainbow trout *Oncorhynchus mykiss* (Walbaum). *Indian Journal of Fish.* 56 (3):219-222.

**Joshi, K.D.**, S. Sunder, C.B.Joshi and K.K.Vass, 2005. Domestication and growth of *Schizothorax richardsonii* (Gray). *Journal Inland Fish. Soc.* **37**(1): 64-67.

**Joshi, K.D. 2006.** Successful brood-stock rearing and captive breeding of *Schizothorax richardsonii* (Gray) at Chhirapani Farm Champawat, Uttarakhand. *Journal Inland Fish. Soc.* **38**(1): 64-67.

**Joshi, K.D.** and B.C.Tyagi, 2008. Rearing of carp fry under polyhouse ponds at high altitude of Uttarakhand Himalaya, during winters. *Journal Inland Fish. Soc.* **40**(1): 78-81.

**Joshi, K.D.,** B.K.Biswas, Shyam Lal, K.K.Vass, 2009. Piscine diversity in the river Betwa. *Journal Inland Fish. Soc.* **41**(1):61-64.

**Joshi, K.D.** and B.K.Biswas, 2010. Piscine diversity and fisheries in the river Ken, proposed for inter-river-linking. *Journal Inland Fish. Soc.* **42**(2):25-31.

Bhanja, S. K., **K. D. Joshi** and B. C. Tyagi, 2001. Effect of vitamin supplementation in diet on the growth and feed conversion efficiency of upland fishes. *Journal of Aquaculture.* **9**: 53-60.

**Joshi, K.D.** and P.C.Joshi, 1995. *Puntius dukai* (Day) (Pisces: Cyprinidae): a new record from U.P.hills. *Journal Bombay Nat. Hist. Soc.* **93** :102 – 103.

**Joshi, K.D.** 1998. *Chagunius chagunio* (Ham. Buch.) (Pisces: Cyprinidae) : A new record from Kumaun hills, Uttar Pradesh. *Journal Bombay Nat. Hist. Soc.* **95**: 127 – 128.

**Joshi, K.D.** and P.C.Joshi, 1988. Origin and extrusion of nucleoli in the developing oocytes of a hill stream fish, *Puntius dukai* (Day). *Him. J.Env. & Zool.* **2**: 16 – 19.

**Joshi, K. D.,** P.C.Joshi and B.D.Joshi, 1989. Atretic and discharged follicles in a hill stream teleost, *Puntius dukai* (Day). *Him. J. Env. & Zool.* **3**: 44 – 50.

**Joshi, K.D.** 2007. Migration in certain fish species of the Kali river system in Kumaon Himalaya. *Journal of Himalayan Ecology & Sustainable Development.* Vol.2: 37 - 46.

Kumar, D. and **K.D. Joshi,** 2008. Status of fishery and its management in wetlands of Uttar Pradesh: Measures for enhancement. *Journal Inland Fish. Soc.* **40**(2): 56-60.

**Joshi, K.D.** and Kumar, D. 2009. Status of fishery, its management and scope for enhancement in a terai wetland of Uttar Pradesh, India. *Asian Fisheries Science* **22**(1): 229-234.

**Joshi, K.D.** and P.C.Mahanta, 2009. Aseel snowtrout, *Schizothorax richardsonii* (Gray): its natural history and domestic attributes. *Fishing Chimes*, **28** (10 &11); 90-93.

Mahanta, P.C. and **K.D. Joshi,** 2009. Entrepreneurial Opportunities in Coldwater Fisheries Sector. In National Workshop on Advances in Aquaculture and Fisheries: Perspectives, Prospects and Challenges. 3<sup>rd</sup> July 2009. Ildex India 2009 Aquaculture, Souvenir, pp45-47. ITPO Pragati Maidan, New Delhi.

Sivaraman, G.K. Jr.; A. Barat; S. Ali; N.N. Pandey; **K.D. Joshi** and P.C. Mahanta, 2010. An analysis of genetic diversity among Indian coldwater fishes (Pisces: Cyprinidae) using RAPD Markers. *The IUP Journal of Genetics & Evolution*, **3** (2):31-40.

Sivaraman, G.K. Jr.; A. Barat; S. Ali; **K.D. Joshi** and P.C. Mahanta. 2010. Phylogenetic analysis of Coldwater fish species (Cyprinids) of India using targeted MtDNA and RAPD-PCR markers. *The IUP Journal of Genetics & Evolution*, 3 (4):1-8.

Absar Alam, N. K. Chadha, **K. D. Joshi**, S. K. Chakraborty, Paramita Banerjee Sawant, Tarkeshwar Kumar, Kalpana Srivastava, S. C. S. Das and A. P. Sharma, 2014. Food and Feeding Ecology of the Non-native Nile Tilapia, *Oreochromis niloticus* (Linnaeus, 1758) in the River Yamuna, India. *Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci.*, DOI 10.1007/s40011-014-0338-3.

**Joshi, K. D.**, D.N. Jha, A. Alam, S.K. Srivastava, Vijay Kumar and A.P. Sharma, 2014. Environmental Flow requirements of river Sone: Impacts of low discharge on fisheries. *Current Science*, 107 (3): 478-488.

Pathak, R.K., A. Gopesh, A.C. Dwivedi and **K.D. Joshi**. 2014. Age and growth of alien fish species *Cyprinus carpio* var. *communis* (common carp) in the lower stretch of Yamuna river at Allahabad, India. *National Academy of Science Letters*, 37 (5): 419-422, DOI 10.1007/s40009-014-0262-3.

**Joshi, K. D.**, D.N. Jha, M. A. Alam, S.C.S. Das, S.K. Srivastava and Vijay Kumar, 2014. Massive invasion of resilient exotic fishes in the river Ganga: A case study at Allahabad stretch. *Journal of Inland Fisheries Society*, 46 (1): 92-95.

Alam, A., Chadha, N. K., **Joshi, K. D.**, Chakraborty, S. K., Sawant, P. B., Kumar, T. and Sharma, A. P. 2015. Maturation profile and fecundity of the exotic *Oreochromis niloticus* in the River Yamuna, India. *Journal of Environmental Biology*, Vol 36 (4):927-931.

Sharma, A.P., **K.D.Joshi**, M. Naskar and M.K. Das, 2015. Inland Fisheries and Climate Change: Vulnerability and Adaptation Options. ICAR-Central Inland Fisheries Research Institute, Barrackpore Special Publication, p 29.

Alam, A., **Joshi, K. D.** and S.C.S. Das, 2016. Feeding and reproductive behavior of the river catfish, *Rita rita* (Hamilton, 1822) in the river Ganga. *Indian Journal of Animal Sciences* 86 (6): 736-740.

**Joshi, K. D.**, A. Alam, D.N. Jha, S.K. Srivastava and Vijay Kumar, 2016. Fish diversity, composition and invasion of exotic fishes in river Yamuna under altered water quality conditions. *Indian Journal of Animal Sciences*, 86 (8): 957-963.

**Joshi, K. D.**, S.C.S. Das A. U. Khan, R.K. Pathak and U.K. Sarkar, 2016. Reproductive biology of snow trout, *Schizothorax richardsonii* (18,32) in a tributary of river Alaknanda, India and their conservation implications. *International Journal of Zoological Investigations*, 2 (1): 109-114.

**Joshi, K. D.**, D.N. Jha, M. A. Alam, Kalpana Srivastava, S.K. Srivastava, Vijay Kumar and A.P. Sharma, 2017. Studies on ecology, fish diversity and fisheries of Ken–Betwa rivers (India): Impact assessment of proposed inter-linking. *Aquatic Ecosystem Health & Management* DOI:10.1080/14634988.2017.1261576.