



# National Bureau of Fish Genetic Resources

(Indian Council of Agricultural Research)

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**Name** Dr. V. S. Basheer

**Designation** Senior Scientist

**Date of birth** 03.01.1965

**Professional experience** 15 years

**Qualification** M.Sc. (Zoology; Fish & Fisheries specialization);  
D. Stat (Statistics),  
M.Phil (Zoology - Fisheries),  
Ph.D. (zoology - Fisheries)



**Current area of Research** Cryopreservation of milt of fishes; Impact of exotic fishes in Indian waters; Genetic characterization of fishes

**Area of Research Expertise**

- Development of protocol for cryopreservation of milt of indigenous freshwater fishes for conservation
- Captive breeding of indigenous freshwater fishes
- Monitoring of exotic fishes and its impact in natural water bodies
- Genetic stock identification of fishes through DNA markers
- Barcoding of the fishes using mtDNA markers

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

**Publication (no.)**

- **Research papers** 30
- **Reviews** 0
- **Books** 0
- **Book Chapters** 10
- **Popular articles** 8
- **Others** 12

Online Database: NCBI Genbank Accessions: 200

## Important Research Publications

Muneer Abdul P M, Sivanandan R, Gopalakrishnan A, **Basheer V S**, Musammilu K K and Ponniah A G (2010) Development and Characterization of RAPD and Microsatellite Markers for Genetic Variation Analysis in the Critically Endangered Yellow Catfish *Horabagrus nigricollaris* (Teleostei: Horabagridae). *Biochem Genet.* DOI 10.1007/s10528-010-9389-1

Muneer Abdul P M, Gopalakrishnan A, Sivanandan R, **Basheer V S** and Ponniah A G (2010) Genetic variation and phylogenetic relationship between two species of yellow catfish, *Horabagrus brachysoma* and *H. nigricollaris* (Teleostei: Horabagridae) based on RAPD and microsatellite

- Padmakumar K G, Bindu L, **Basheer V S**, Gopalakrishnan A & Lakra W S (2010). Threatened fishes of the World: *Clarias dussumieri dussumieri* Valenciennes, 1840 (Clariidae). *Environmental Biology of Fishes* (online published).
- Muneer Abdul P M, Gopalakrishnan A, Musammilu K K, Mohindra V, Lal K K, **Basheer V S**, Lakra W S (2009). Genetic variation and population structure of endemic yellow catfish, *Horabagrus brachysoma* (Bagridae) among three populations of Western Ghat region using RAPD and microsatellite markers. *Mol. Biol. Rep.*, **36**: 1779–1791 (DOI 10.1007/s11033-008-9381-6).
- Gopalakrishnan A, Musammilu K K, **Basheer V S**, John Lijo, K G kumar Padma, K K Lal, V Mohindra, Punia P, Dinesh K, Hashim M, Ponniah A G and Lakra W S (2009). Low genetic differentiation in the populations of the Malabar carp. *Labeo dussumieri* as revealed by allozymes, RAPD and microsatellites. *Asian Fisheries Science*, **22(2)**: 359-391.
- Muneer Abdul P M, Gopalakrishnan A, **Basheer V S** and Lakra W S (2008). Identification of random amplified polymorphic DNA (RAPD) markers in endemic yellow catfish, *Horabagrus brachysoma* (Gunther 1864). *Asian Fisheries Science* **21(2)**: 293-304.
- Muneer Abdul P M, Gopalakrishnan A, Musammilu K K, Mohindra V, Lal K K, **Basheer V S**, Lakra W S (2008). Genetic variation and population structure of endemic yellow catfish, *Horabagrus brachysoma* (Bagridae) among three populations of Western Ghat region using RAPD and microsatellite markers. *Mol. Biol. Rep.* DOI 10.1007/s11033-008-9381-6.
- Sarkar U K, Kapoor D, Paul S K, **Basheer V S**, Deepak P K, Srivatava S M and Tyagi L K (2007). Fish biodiversity in the water bodies of Samaspur bird sanctuary, Uttar Pradesh: Towards developing a freshwater aquatic sanctuary. *J. Bom. Nat.His. Soc.* **104(1)**: 51-54.
- Nagpure N S, Kumar R, Srivastava S K, Kushwaha B, Gopalakrishnan A and **Basheer V S** (2007). Cytogenetic characterization of marine fishes *Chaetodon collare* and *Stegastes insularis* from western coast of India. *J. Marine Biol. Assn.India*, **49**: 131-135
- Nagarajan M, Haniffa M A, Gopalakrishnan A, **Basheer V S** and Muneer Abdul P M (2006). Genetic variability of *Channa punctatus* populations using randomly amplified polymorphic DNA. *Aquaculture Research*, **37**: 1151-1155.
- Gopalakrishnan A, Muneer Abdul P M, Thomas P C, Lal K K, Mohindra V, Basheer VS, Kapoor D and Ponniah A G (2006). Identification of polymorphic allozyme markers for population structure analysis in endemic yellow catfish, *Horabagrus brachysoma* (Gunther, 1864). *Indian J. Fish.*, **53 (3)**: 253-261.
- Nagpure N S, Kumar R, Srivastava S K, Gopalakrishnan A, Basheer V S and Kapoor D (2006). Cytogenetic studies in two cyprinids *Garra mullya* and *Barilius bakeri* from the Western Ghats of India. *J. Cytol. Genet.* **7(NS)**: 69-78.
- Nagpure N S, Kushwaha B, Srivastava S K, Kumar R, Gopalakrishnan A, **Basheer V S** and Verma M S (2004). Characterisation of three endemic fish species from Western Ghats, using cytogenetic markers. *The Nucleus*, **46 (3)**: 110-114.
- Nagpure N S, R Kumar, Verma M S, Srivastava S K, T V Mercy A, Gopalakrishnan A and **Basheer V S** (2004). Characterisation of fish, *Prestolepis marginata* Jerdon, using cytogenetic markers. *J.*

Cytol. Genet. **5 (NS)**: 167-172.

Sarkar U K, **Basheer V S**, Singh A K and Srivastava S M (2003). Organochlorine pesticide residues in water and fish samples: first report from rivers and streams of Kumaon Himalyan region, India. Bull. Environ.Contam. Toxicol. **70**: 485-493.