



# National Bureau of Fish Genetic Resources

(Indian Council of Agricultural Research)

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**Name** Dr. Kuldeep Kumar Lal

**Designation** Head of Division and Principal Scientist

**Date of birth** June 15,1964

**Professional experience** 19 years

**Qualification** PhD

**Current area of Research** Conservation Genetics



## Area of Research Expertise

- Molecular marker development and application in intra and inter-specific genetic diversity analysis.
- Sperm Cryopreservation in Fishes.
- Embryonic stem cell research in fishes.

## Awards/ Recognitions (only National and International)

### Publication (no.)

- Research papers 58
- Reviews
- Books 2
- Book Chapters -
- Popular articles -
- Others

## Important Research Publications:

Lakra W S, Verma M S, Goswami M, **Lal K K**, Mohindra V, Punia P , Gopalakrishnan A, Singh K V, Ward R D and Hebert P. (2011) DNA Barcoding Indian Marine Fishes. Marine Ecology Resources, **11(1)**: 60–71.

Maria H, Lakra W S, Mohindra V, Khare P, Burman A S, Singh A, **Lal K K**, Punia P and Khan A A (2010) Evaluation of cytochrome b mtDNA sequences in Genetic Diversity Studies of *Channa marulius* (Channidae:Perciformes) Molecular Biology Reports **38**: 2, 841-846, DOI: 10.1007/s11033-010-0175-2

- Mandal A, **Lal K K**, Mohindra V, Singh R K, Punia P, Chauhan U K and Lakra W S (2009) Population structure of Indian feather-back fish, *Chitala chitala* using allozyme, random amplified polymorphic DNA (RAPD) and microsatellites. *Biochemical Genetics*, **47**: 216-234.
- Muneer A 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. *Molecular Biology Reports*, **36 (7)**: 1779 – 91.
- Mohindra V, Singh R K, Punia P, Gupta H S, **Lal K K**, Mishra A K, Kumar R, Shah R S and Lakra W S (2007) Isolation and characterization of polymorphic microsatellite loci in yellow catfish, *Pangasius pangasius* (Hamilton, 1822). *Molecular Ecology Resources*, **8 (4)**: 864-866.
- Chauhan T, **Lal K K**, Mohindra V, Singh R K, Punia P, Gopalakrishnan A, Sharma P C and Lakra W S (2007) Genetic differentiation in the population of Indian major carp, *Cirrhinus mrigala* (Hamilton-Buchanan, 1882): evidence from allozyme and microsatellite markers. *Aquaculture*, **269**,135-149.
- Mohindra V, Singh R K, Palanichamy M, Ponniah A G, and **Lal K K** (2007) Genetic Identification of three species of genus *Clarias* using allozyme and mitochondrial DNA markers. *Journal of Applied Ichthyology*. **1**:104-109.
- Peyush P, Gupta H S, Singh R K, Mohindra V, **Lal K K**, Ranjana, Chauhan V S and Lakra W S (2006) Polymorphic microsatellite markers isolated from partially enriched genomic library of *Chitala chitala*. *Molecular Ecology Notes*, **6**: 1263-1265.
- Lal K K**, Mandal A, Singh R K, Punia P, Kapoor D, Chauhan U K, Singh S P and Mohindra V (2006) Genetic divergence in two feather back fishes, *Chitala chitala* and *Notopterus notopterus*. *Journal of Applied Ichthyology* **22 (5)**: 369-373.
- Mohindra V, Anshumala, Punia P, Narain L, Kapoor D and **Lal K K** (2004) Microsatellite loci to determine population structure of *Labeo dero* (Hamilton Buchanan). *Aquatic Living Resources*. **18**: 83-85.
- Mohindra V, Ranjana, Khulbe L, Ponniah A G and **Lal K K** (2004) Microsatellite loci to assess genetic variation in *Tor putitora*. *Journal of Applied Ichthyology*. **20(6)** 466-469.
- Lal, K K**, Chauhan T, Mandal A, Singh R K, Khulbe L, Ponniah A G and Mohindra V (2004) Identification of microsatellite DNA markers for population structure analysis in Indian major carp, *Cirrhinus mrigala* (Hamilton-Buchanan, 1882). *Journal of Applied Ichthyology* **20(2)**: 87-91.
- Mandal A, Mohindra V, Singh R K, Punia P, Singh A K, **Lal K K** (2010) Mitochondrial DNA variation in Indian populations of endangered Feather-Back Fish, *Chitala chitala*. *Molecular Biology Reports* (In Press).
- Chaturvedi A, Mohindra V, Singh R K, **Lal K K**, Punia P, Ranjana, Mandal A, Narain L and Lakra W S (2010) Population genetic Structure and phylogeography of cyprinid fish, *Labeo dero* inferred from allozyme and microsatellite DNA marker analysis. *Molecular Biology Reports* (In Press).

Singh R K, **Lal K K**, Mohindra V, Punia P, Sah R S, Mishra A K, Kumar R, Mishra B N and Lakra W S (2010) Assessing genetic differentiation in geographic populations of *Labeo calbasu* (Hamilton, 1822) using allozyme markers. Biochemical Genetics (in press).