



National Bureau of Fish Genetic Resources

(Indian Council of Agricultural Research)

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



Name Dr. MUKUNDA GOSWAMI

Designation Sr. Scientist

Date of birth

Professional experience 9 years

Qualification M. F. Sc. and Ph. D. (Fish & Fisheries Science)

Current area of Research Molecular Biology, Cell Culture, Proteomics



Area of Research Expertise

- Molecular Genetic Characterization of fish using molecular markers (RAPD & mtDNA)
- Fish Population Genetics using microsatellites and mtDNA markers
- Molecular Phylogenetics
- DNA Barcoding
- Development & Characterization of Fish Cell Lines
- Proteomics Studies in Carps
- Zebrafish Breeding and maintenance of Zebrafish Genetic Resources from different wild sources

Awards/ Recognitions

- **National Scholarship** for pursuing UG from Govt. of India
- **Indian Council of Agricultural Research** - Junior Research Fellowship for pursuing PG
- **National Eligibility Test** (for lecturer post) of ICAR / UGC/CSIR, India
- **Best Young Scientist Award during 2010-2011**

Publication (no.)

- **Research papers** 20
- **Reviews** 0
- **Books** 1
- **Book Chapters** 2
- **Popular articles** 6
- **Others** 2

Important Research Publications

Lakra W S and **Goswami M** (2011) Development and characterization of a continuous cell line PSCF from *Puntius sophore*. *Journal of Fish Biology* **78 (5)**: 987-1001

Lakra W S, **Goswami M**, Gopalakrishnan A, Singh D P, Singh A and Nagpure N S (2011) Genetic

relatedness among fish species of Genus *Channa* using mitochondrial DNA genes. *Biochemical Systematics and Ecology*, **38 (16)**: 1212-1219

Goswami M, Lakra W S, Rajaswaminathan T and Rathore G (2010) Development of cell culture system from the giant freshwater prawn *Macrobrachium rosenbergii* (de man). *Molecular Biology Reports* **37**:2043-2048

Lakra W S, **Goswami M**, Yadav K; Gopalakrishnan A, Patiyal R S, Singh R M (2010) Development and characterization of two cell lines PDF and PDH from *Puntius denisonii* (Day 1865). *In Vitro Cellular & Developmental Biology - Animal*, **47 (2)**: 89-94

Lakra W S, Swaminathan T R, Rathore G, **Goswami M**, Yadav K, Kapoor S (2010) Development and characterization of three new diploid cell lines from *Labeo rohita* (Ham.). *Biotechnology Progress* **26 (4)**: 1008-1013

Lakra W S, **Goswami M**, Singh A, ishra P S M, Gayathri N and Nagpure N S (2010) Molecular Characterization of *Metapenaeus affinis* using RAPD markers. *Molecular Biology Reports* **37**:2043-2048

Lakra W S, **Goswami M** and Gopalakrishnan A (2009) Molecular identification and phylogenetic relationships of seven Indian Sciaenids (Pisces: Perciformes, Sciaenidae) based on 16S rRNA and cytochrome c oxidase subunit I mitochondrial genes. *Molecular Biology Reports* **36**:831-839

Goswami M, Thangaraj K, Chaudhary B, Bhaskar L, Gopalakrishnan A, Joshi M, Singh L, Lakra W S (2009). Genetic heterogeneity in the Indian stocks of seahorse (*Hippocampus kuda* and *Hippocampus trimaculatus*) inferred from mtDNA cytochrome b gene. *Hydrobiologia* **621**:213-221

Lakra W S, **Goswami M**, Mohindra V (2007) Molecular Identification of Five Indian Sciaenids (Pisces: Perciformes, Sciaenidae) using RAPD Markers. *Hydrobiologia* **583**:359-363

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 (2010). DNA Barcoding Indian Marine Fishes. *Molecular Ecology Resources* **11 (1)**:60-71