

Curriculum Vitae

Name : **Dr. Bijay Kumar Behera**

Designation : **Dean**

College of Fisheries, Rani Lakshmi Bai Central Agricultural University, Jhansi, Uttar Pradesh



Academic Qualifications:

- Bachelor of Fishery Science (**B.F.Sc.**) from College of Fisheries, Orissa University of Agriculture and Technology, Bhubaneswar (OGPA-8.3)
- Master of Fishery Science (**M.F.Sc.**) in Aquaculture from College of Fisheries, Orissa University of Agriculture and Technology, Bhubaneswar (OGPA-8.4/ **Gold Medalist**)
- **Ph.D.** in Inland Aquaculture from ICAR-Central Institute of Fisheries Education, Mumbai (OGPA-8.1)
- **Post Doctoral Fellow** in Nanobiosensor Technology from RMIT University, Melbourne, Australia

Employment Record

- **Head of the Division**, Aquatic Environmental Biotechnology and Nanotechnology Division, ICAR-CIFRI, Barrackpore since 22.08.2020 till date
- **Principal Scientist** (Biotechnology), ICAR-CIFRI, Barrackpore from 01.09.2014 to 21.08.2020
- **Senior Scientist** (Biotechnology), ICAR-CIFRI, Barrackpore from 01.09.2008 to 31.8.2014
- **Scientist Senior Scale** (Fish and Fisheries Science), ICAR-RC for NEH Region, Manipur Center, Imphal from 17.03.2007 to 31.8.2008
- **Scientist** (Fish and Fisheries Science), ICAR-RC for NEH Region, Manipur Center, Imphal from 17.04.2003 to 16.03.2007
- **Scientist** (Fish and Fisheries Science), ICAR-RC for NEH Region, Barapani, Shillong from 17.03.2003 to 16.04.2003
- **Fishery Extension Officer** at Department of Fisheries, Government of Odisha from 18.03.99 to 07.03.2003
- **Biologist** in Sea-Craft Aqua Projects Pvt. Ltd., Balasore, Odisha from 01.02.98 to 10.02.99
- **Part-time-Lecturer** in College of Fisheries, OUAT, Rangeilunda, Berhampur, Odisha from 24.07.97 to 13.01.98
- **Senior Technical Officer** in Srinivasa Marine Exports (I) Pvt. Ltd., Gopalpur-on-Sea, Odisha from 07.01.97 to 20.07.97

Research Projects

- Associated with two ICAR Institutional Projects as PI and five Projects as Co-PI
- Associated with seven Externally funded Projects as PI and Six Projects as Co-PI from different funding Agencies like DBT, NFDB, Ministry of Fisheries, Govt. of India, Ministry of IT, Govt. of India, WorldFish, Penang, Malaysia, NOFIMA, Norway, ICAR-NAIP, ICAR-NFBSFARA, ICAR-NASF, SSNL, Gujrat, ICAR-IASRI and ICAR-IARI.
- More than Rs. 15 Crores fund has been received from those Agencies for those externally funded Projects.
- Projects related to induced breeding of fish and seed production Technology, Fish Grow out Technology, Farming System Research, Cage and Pen Culture Technology in Reservoirs and Wetlands, Fish genetic stock characterization, Identification of pathogenic bacteria, Virus, Fungus and Parasites in diseased fishes, Fish Disease Diagnostics, Nutrient Profiling of Fish, Bioprospecting of genes and allele mining for abiotic stress tolerance, Identification of Aquaporin Gene in *Clarias batrachus*, Metagenomics of river sediments, Development of

- Nanobiosensor for detection of fish pathogens and pollutants in water, Habitat fingerprinting in rivers has been carried out.

Research Outputs/Publications

- Published more than **160** international research papers in high impact factor journals with more than **4180 citations**, **29 h-index** and **83 i10-index**.
- Published Seven Books, Four training Manuals and 25 Book Chapters and five leaflets
- **Patent:** Registered the design of the Tissue Embedding Machine in Indian Patent Office
- **Product:** Developed one step Tilapia Lake Virus Diagnostic Kit
- **Genomic Resources:** Generated thousands of gene sequences of Fishes, Bacteria, Virus, Parasite which has been submitted to NCBI GenBank
- **Unique Germplasm:** Identified Five salt stress Tolerant Bacteria from marine Environments and submitted to ICAR-NBAIM, Mau depository
- Identified more than 10 fish pathogens from diseased fishes.
- **Technology:** Developed induced breeding and seed production Technology of Indian Medium Carp. *Osteobrama belangeri*.
- Identified probiotic, bioremediating bacteria, Bacteriophage and AMR genes in Metagenomic data.
- Developed two nanobiosensor for the detection of Murine Norovirus in Fish and Cloropyrifos in river water

Foreign Visits

- Visited Ian Porter Nanobiosensing Facility, RMIT University, Melbourne, Australia for Post Doctoral Research
- Visited Bangladesh Fisheries Research Institute to deliver a Invited Lecture on Hilsa Genetics in an International Conference

Awards/Fellowships/ Scholarships

- NAAS Fellow, Endeavour Award, Ministry of Education and Training, Govt. of Australia, Fellowship of Zoological Society of India, Japanese Govt. Fellowship (Monbukagakusho-MEXT), Ministry of Education, Science and Technology, Govt. of Japan, Prof. Har Swarup Medal, Krushi Prativa Samman-2018 Award, Scientist of the Year-2019 Award, Dr. Hiralal Choudhuri Award, Best Scientist Award, Best Annual Report Award of the Institute as Editorial Board Member, Sardar Patel Outstanding ICAR Institution Award to ICAR-CIFRI as Principal Scientist and Head, AEBN Division of the Institute and In-Charge PME Cell, Dr. M.S Swaminathan Best Indian Fisheries Scientist award 2020 by PFGF, Mumbai, ICAR-Senior Research Fellowship, ICAR-Junior Research Fellowship, University Merit Scholarship, University Gold Medal in M. F. Sc.

Other Academic and Extension Activities

- Guided two Post-Doc Fellow (DBT-PDF and DBT-TWAS from Nigeria) Ten Ph.D.s and 10 Masters Students. Currently seven Ph.D.s are under supervision.
- Trained more than 3000 fish farmers/fishers/students/state government fisheries departmental officials, Scientists and Faculties
- Organized eight international Conference/Seminars/Workshops
- Associate Editor, Frontiers in Microbiology; Associate Editor, Biotechnology For the Environment; Academic Editor, PLOS ONE; Associate Editor, Mitochondrial DNA Part B: Resources; Guest Editor, AEHM, Canada; Editor, Journal of IFSI; Editor, Journal of ZSI and reviewer in more than 30 International Journals

Institute Building Activities

- In-Charge PME Cell, Member Secretary, QRT, Member, IMC of ICAR-CRIJAF
- Developed Central Lab, IMC and Magur Hatchery at ICAR Manipur Center
- Developed Nano-Biosensor, Biotechnology, RAS, Cell Culture, ICPMS Facility, Bioinformatics lab at ICAR-CIFRI