



**National Bureau of Fish Genetic Resources**  
**(Indian Council of Agricultural Research)**  
Canal Ring Road, Dilkusha PO, Lucknow-226002, India



**Name** Dr. J. K. Jena  
**Designation** Director  
**Date of Birth** 28 October, 1965  
**Year of experience** 20 years  
**Qualification** M.Sc. (Mariculture); Ph. D. (Aquaculture)



**Current research area** Freshwater aquaculture, Conservation genetics

**Area of Research Expertise**

- Breeding and husbandry of major and minor carps
- Aquaculture diversification with new species of interests
- Bioremediation
- Cryopreservation
- Freshwater pearl culture
- Conservation genetics
- Aquaculture development

**Awards/Recognitions:**

**ICAR Award for the Team Research in Fisheries for the Biennium 2006-2007** (As Team Leader) with Certificate, Citation and a cash award of Rs.100,000 received by the team on 16 July, 2008 for Diversification of freshwater Aquaculture.

**Special onetime Award by Indian Council of Agricultural Research**, New Delhi with certificate, Citation and cash award of Rs. 45,000 during 16 July, 1998 for contribution in formulation of carp diet.

**ICAR Award for the Team Research in Fisheries for the Biennium 1997-1998** (As a Member of the Research Team) with Certificate, Citation and a cash award of Rs.10,000 received on July, 17, 2000 for Development of Technology of Wastewater Treatment through Aquaculture.

**Prof. H.P.C. Shetty Award for Excellence in Fisheries Research and/or Development** for 2008 by Asian Fisheries Society, Indian Branch with Certificate and a cash award of Rs.10,000 on 25 Nov., 2008 during 8<sup>th</sup> Indian Fisheries Forum held at Kolkata.

Elected as the **Associate** of the **National Academy of Agricultural Sciences**, New Delhi for the Period **2005-2009**.

**Awarded as National Fellow of ICAR**, New Delhi, January, 2005- March, 2009.

**Best Young Scientist Award of the Dr. Hiralal Choudhuri Fisheries Foundation**, Mumbai for the year 2001 on 11 September, 2001 with Certificate and a cash award of Rs. 5,000.

**Scientist of the Year Award** by the Bioved Research and Communication Centre, Allahabad on 19 February, 2000 during 2<sup>nd</sup> Indian Agricultural Scientists and Farmers Congress.

**Dr. S. Z. Qasim Medal-2011** of the Bioved Research Society, Allahabad on the occasion of 13<sup>th</sup> Indian Agricultural Scientists and Farmers' Congress held during 19-20 February, 2011.

**Member of the Executive Committee**, Asian Fisheries Society Indian Branch, Mangalore, India since November, 2005.

**Member of the Task Force of Department of Biotechnology**, New Delhi for the Biotechnology Based Programme for Women during 2005-07.

**Member of the Expert Committee for S&T for Women for Department of Science and Technology**, New Delhi during 2008-2010.

#### **Publications:**

**Research papers** : 59 nos

**Reviews** : 3 nos

**Books** : 5 nos

**Book chapters** : 15 nos

**Popular articles** : 40 nos

**Others** : 85 Abstracts, 5 documents for National Planning

#### **Important Research Publications:**

**Jena, J. K.**, S. Ayyappan, P. K. Aravindakshan, B. Dash, S. K. Singh and H. K. Muduli, 2002. Evaluation of production performance in carp polyculture with different stocking densities and species combinations. *J. Appl. Ichthyology*, **18**: 165-171.

**Jena, J. K.**, S. Ayyappan and P. K. Aravindakshan, 2002. Comparative evaluation production performance in varied cropping patterns of carp polyculture systems. *Aquaculture*, **207**: 49-64.

Barik, S. K., **J. K. Jena** and K. Janaki Ram, 2004. CaCO<sub>3</sub> crystallisation in primary culture of mantle epithelial cells of freshwater pearl mussel. *Current Science*, **8**: 730-734.

Das, P. C., S. Ayyappan, B. K. Das and **J. K. Jena**, 2004. Nitrite toxicity in Indian major carps: sub-lethal effect on selected enzymes in fingerlings of *Catla catla*, *Labeo rohita* and *Cirrhinus mrigala*. *Comp. Bio. Physiol.*, Part C, **138**: 3-10.

Biswas, G., **J. K. Jena**, S. K. Singh, P. Patmajhi and H. K. Muduli, 2006. Effect of feeding frequency on growth, survival and feed utilization in mrigal, *Cirrhinus mrigala* and rohu, *Labeo rohita* during nursery rearing. *Aquaculture*, **254**: 211-218.

Biswas, G., **J. K. Jena**, S. K. Singh and H. K. Muduli, 2006. Effect of feeding frequency on growth, survival and feed utilization in fingerlings of *Catla catla*, *Labeo rohita* and *Cirrhinus mrigala* in outdoor rearing systems. *Aqua. Res.*, **37**: 510-514.

Routray, P., A. K. Choudhary, S. N. Dash, D. K. Verma, C. Dash, P. Swain, **J. K. Jena**, S. D. Gupta and N. Sarangi, 2006. Cryopreservation of dead fish spermatozoa several hours after death of Indian major carp, *Labeo rohita* and its successful utilization in fish production. *Aquaculture*, **261**: 1204-1211.

- Jena, J. K.**, P. C. Das, R. Das and S. Mondal, 2007. Performance of olive barb, *Puntius sarana* (Hamilton) in fingerling rearing with rohu, *Labeo rohita* (Hamilton) and mrigal, *Cirrhinus mrigala* (Hamilton). *Aquaculture*, **265**: 305-308.
- Jena, J. K.**, P. C. Das, S. Mondal and R. Das, 2007. Compatibility of silver barb *Puntius gonionotus* (Bleeker) with Indian major carps in grow-out polyculture. *Aqua. Res.*, **38**: 1061-1065.
- Sahu, P. K., **J. K. Jena**, P. C. Das, S. Mondal and R. Das, 2007. Production performance of *Labeo calbasu* (Hamilton) in polyculture with three Indian major carps *Catla catla* (Hamilton), *Labeo rohita* (Hamilton) and *Cirrhinus mrigala* (Hamilton) with provision of fertilizers, feed and periphytic substrate as varied inputs. *Aquaculture*, **262**: 333-339.
- Pattnaik, S., G B N. Chaiy and **J K Jena**, 2007. Characterization of Ca<sup>2+</sup>-ATPase activity in gill microsomes of freshwater mussel, *Lamellidens marginalis* (Lamarck) and heavy metal modulations. *Aquaculture*, **270**(1-4): 443-450.
- Jena, J. K.**, P. C. Das, S. Kar and T. K. Singh, 2008. Olive barb, *Puntius sarana* (Hamilton) is a potential candidate species for introduction into the grow-out carp polyculture system. *Aquaculture*, **280**: 154-157.
- Pawar, N. A., **J. K. Jena**, P. C. Das and D.D. Bhatanagar, 2009. Influence of duration of aeration on growth and survival of carp fingerlings during high density seed rearing. *Aquaculture*, **290**: 263-268.
- Jena, J. K.** and P. C. Das, 2011. Grow-out performance of Kuria labeo *Labeo gonius* (Hamilton) with major carps in carp polyculture system. *Aqua. Res.*, doi:10.1111/j.1365-2109.2010.02721x