

Curriculum Vitae

Annam Pavan Kumar

Scientist

Division of Fish Genetics and Biotechnology

ICAR-Central Institute of Fisheries Education (ICAR-CIFE)

Versova, Mumbai, India-400061.

Phone: 91-022-26361447, Ext: 452,

Mobile: +91- 9323348246

Email: pavanannam@gmail.com



Education			
Year	Degree	Institution	Field of Study
2006-2012	Ph.D.	ICAR-Central Institute of Fisheries Education, Mumbai, India	Fish Biotechnology Thesis Title: Molecular Phylogeny and DNA barcoding of elasmobranchs from India
2004-2006	Master of Fisheries Science	ICAR-Central Institute of Fisheries Education, Mumbai, India	Fish Genetics and Biotechnology, Dissertation Title: Geographical distribution and Potential Microsatellite marker linked with WSSV resistance in <i>Penaeus monodon</i>
2000-2004	Bachelor of Fisheries Science	Acharya N.G. Ranga Agricultural University, Anadhra Pradesh, India	Fisheries Science including Aquaculture; Fin fish and Shell fish taxonomy, Fisheries Biology; Fisheries Environment; Fisheries Microbiology; Pathology, Biotechnology

Employment

2008-Present: Scientist, Division of Fish Genetics and Biotechnology, ICAR-Central Institute of Fisheries Education.

Research interests

Biodiversity Genomics, Population Genomics, Molecular Phylogeny and Phylogeography and Metabarcoding.

Research projects handled/ being handled as Co- principal Investigator

Title	Funding Agency	Period
Molecular phylogeny of Cynoglossidae family	Institutional	2013-16
Identification of SNP's from coding genes of <i>Macrobrachium rosenbergii</i>	Institutional	2013-16
Assessment of Crustacean, Molluscan and Algal Biodiversity on Intertidal Region of Mumbai	Institutional	2012-15
Molecular Phylogeny and DNA Barcoding of Elasmobranchs and Selected Teleosts from Indian Coast	Institutional	2011-13
Development of tri and tetra nucleotide repeats in <i>Clarias batrachus</i>	Institutional	2012-15
A Comparison of Genetic Parameters for Economic Traits in <i>Macrobrachium rosenbergii</i> reared in Different Production Environments	Institutional	2008-11
Genetic Evaluation and Genetic characterization of two new candidate species for aquaculture <i>Macrobrachium villosimanus</i> & <i>Osteobrama belangeri</i> (Pengba)	Institutional	2008-11

PUBLICATIONS

1. Raman, S., **Pavan-Kumar, A.**, Koringa, G. P., Patel, N., Shah, T. et al., (2015). Ion torrent next generation sequencing reveals the complete mitochondrial genome of endangered mahseer Tor khudree (Sykes, 1839), *Mitochondrial DNA*, DOI: 10.3109/19401736.2015.1060455
2. **Pavan-Kumar, A.**, Gireesh-Babu, P. and lakra, W.S. (2015). DNA Metabarcoding: A New approach for Rapid Biodiversity assessment. *Journal of Cell Science and Molecular Biology* 2 (1):111
3. Sadurudeen, N., **Pavan-Kumar, A.**, Gireesh-Babu, P., Chaudhari, A., Krishna, G. and Lakra, W. S. (2015). DNA barcoding of selected Perciformes fishes from Indian coast. *Indian Journal of Biotechnology* (in press)
4. Das, R., Krishna, G., Priyadarshi, H., Gireesh-Babu, P., **Pavan-Kumar, A.**, Rajendran, K.V., Reddy, A.K., Makesh, M. and Chaudhari, A. (2015). Captive maturation studies in *Penaeus monodon* by GIH silencing using constitutively expressed long hairpin RNA. *Aquaculture*, 448:512-520.
5. Himanshu Priyadarshi, Rekha Das, **A. Pavan Kumar**, Gireesh Babu P., Hasan Javed, Gopal Krishna, Makesh Marappan, Aparna Chaudhari (2015). Characterization and Evaluation of Selected House-keeping Genes for Quantitative RT-PCR in *Macrobrachium rosenbergii* Morphotypes. *Fishery Technology* 52 (2015) : 177 - 183
6. Nagalakshmi, K., **Pavan-Kumar, A.**, Gireesh-Babu, P., Venkateshwarlu, G. and Lakra,S. (2015). Mislabeled in Indian seafood: An investigation using DNA barcoding. *Food control*. DOI: 10.1016/j.foodcont.2015.05.018
7. Kumar, R., Jaiswar, A. K., **Pavan-Kumar, A.**, Chakraborty, S. K., Jahageerdar, S. and Lakra, W. S. (2015). DNA barcoding of Thais species (Family: Muricidae) from west coast of India. *Indian Journal of Fisheries Science*, 62:92-97
8. Bamaniya, D. C., **Pavan-Kumar A.**, Gireesh-Babu P., Sharma,N., Reang, D., Krishna, G. and Lakra, W. S. (2015). DNA barcoding of marine ornamental fishes from India. *Mitochondrial DNA*. DOI: 10.3109/19401736.2014.1003923.

9. Kumari, K., Gireesh-Babu, P., **Pavan-Kumar, A.**, Kumar, S. And Krishna, G. (2015). Characterisation and Validation of House Keeping Gene for Expression Analysis in *Catla catla* (Hamilton). Proceedings of the national Academy of Sciences, India-Section B: biological Sciences. DOI: 10.1007/s40011-014-0482-9
10. Chowdhury, M. L., Gireesh-Babu, P., **Pavan-Kumar, A.**, Suresh Babu, P. P. and Chaudhari, A. (2014). First report on the vertical transmission of a DNA vaccine in freshwater prawn, *Macrobrachium rosenbergii*. *Journal of Invertebrate Pathology*. OI:10.1016/j.jip.2014.06.001
11. Vartak, V.R., Rajendran, N., **Pavan-Kumar, A.**, Singh, D. P. and Lakra, W. S. (2014). DNA Barcoding detected improper labelling and supersession of crab food served from restaurants in India. *Journal of the Science of Food and Agriculture*. DOI:10.1002 /jsfa .6728
12. **Pavan-Kumar, A.**, Gireesh-Babu P., Suresh Babu P. P., Jaiswar A. K., Harikrishna, V., Prasad, K. P., Chaudhari, A., Raje S. G., Chakraborty, S. K., Krishna, G. and Lakra, W. S. (2014). Molecular phylogeny of Elasmobranchs inferred with Mitochondrial and Nuclear markers. *Molecular Biology Reports* 41: 447-457.
13. **Pavan-Kumar A.**, Gireesh-Babu P., Suresh Babu P. P., Jaiswar, A. K., Prasad, K. P., Chaudhari, A., Raje S. G., Chakraborty, S. K., Krishna, G. and Lakra, W. S. (2013). DNA barcoding of elasmobranchs from Indian coast and its reliability in delineating geographically widespread specimens. *Mitochondrial DNA* .doi:10.3109/19401736.2013.823174.
14. Viswambharan, D., **Pavan-Kumar, A.**, Singh, D. P., Jaiswar, A. K., Chakraborty, S. K., Nair, J. R. and Lakra, W. S. (2013). DNA barcoding of Gobiid fishes (Perciformes, Gobioidae). *Mitochondrial DNA* doi: 10.3109/19401736.2013 .834438.
15. Badhe M. R., **Pavan-Kumar, A.**, Gireesh-Babu, P., Pawar P. N., Chaudhari, A., Jaiswar, et al., (2013). DNA barcoding of selected cephalopods from Indian coast. *Indian journal of Animal Sciences* 83(8):862-866.
16. Vinod, B. H., Basavaraja, N., **Pavan-Kumar, A.**, Gireesh-Babu, P. and Chaudhari, A. (2013). Genetic characterization and molecular identification of two morphologically similar species of whiting, *Sillago sihama* and *S. vincenti*. *Indian Journal of Fisheries*, 60: 59-65.

17. Gireesh-Babu, P., Pawar, N., Krishnan, P., **Pavan-Kumar, A.**, Zaidi, S. G. S., Bhartiya, D., Kumar, N., Sivasubbu, S., Rajendran, K. V. and Chaudhari, A. (2012). Functional characterization of the zebrafish *gadd45α b* gene promoter and its application as a biosensor. *Current Science*, 103: 388-394.
18. Pathan, M., Gireesh-Babu, P. **Pavan-Kumar, A.**, Jeena, K., Sharma, R., Makesh, M., Prasad, K. P. and Krishna, G. (2013). In vivo therapeutic efficacy of recombinant *Penaeus monodon* antiviral protein (rPmAV) administered in three different forms to WSSV infected *Penaeus monodon*. *Aquaculture* 376-379: 64-67.