

Dr. E.G. JAYARAJ



College name:

College of Fisheries, Mangaluru

Department:

Department of Aquaculture

Designation and address:

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Qualifications

**MFSc., PhD Zoology**

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Fields(s) of specialization

**Fish and Shellfish Nutrition and Feed Technology**

**Ornamental Fish Culture**

**Marine Fish Breeding & Hatchery Technology**

**Cage Fish Farming**

## Current Projects

Project title	Role in the project	Fund outlay	Funding agency
<b>All India Network Project on Mariculture</b>	<b>As Principal Investigator</b>	<b>45-50 lakhs (3 years)</b>	<b>ICAR-CMFRI, Kochi, Kerala</b>
<b>Utilization of marine microalgae and residue as feed ingredient in vannamei shrimp diet</b>	<b>As Principal Investigator</b>	<b>23.9616 lakhs (2 years)</b>	<b>Reliance Industries, Mumbai</b>

## Completed Projects

Project title	Role in the project	Fund outlay	Funding agency
<b>Ornamental Fish Culture for Rural Livelihood, Self Employment and Poverty Alleviation</b>	<b>As Principal Investigator</b>	<b>80 lakhs</b>	<b>RKVY, GOK</b>

## Proposed research programmes

Modernization of research and instructional fish farm for new aquaculture technologies, RKVY (RIDF)-GOK funding support, Project Outlay: 8.90 Crore.

## Recent Research Publications

(from 2017 to 2019)

### Research Publications

1.	Nesara, K.M., <b>Jayaraj, E.G.</b> and Varuna Baglodi. 2018. Effects of dietary probiotic and organic acid alone and in combination on the growth performance of Indian major carp <i>Labeo rohita</i> . J.Exp.Zool.India. 21(2): 805-812.
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### Abstracts Published

1.	Nesara, K.M., <b>Jayaraj, E.G.</b> and Varuna Baglodi. (2018). Influence of formulated probiotic fish diet with <i>Lactobacillus sporogenes</i> on the growth and
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	survival of Indian major carp <i>Labeo rohita</i> . Abstract published in the Book of Abstracts of the 11 <sup>th</sup> Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November 2017.
2.	Amogha, K.R., <b>Jayaraj, E.G.</b> and Nesara, K.M. (2018). Evaluation of <i>Lactobacillus rhamnosus</i> formulated diet on growth and survival of <i>Labeo rohita</i> . Abstract published in the Book of Abstracts of the 11 <sup>th</sup> Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November 2017.
3.	Nesara, K.M. <b>Jayaraj, E.G.</b> Varuna, B. and Momitha, M. (2018). Dietary inclusion of <i>Lactobacillus sporogenes</i> on superoxide anion production, lysozyme activity and serum protein profile of Indian major carp, <i>Labeo rohita</i> challenged to <i>Aeromonas hydrophila</i> . Abstract published in the Book of Abstracts of the 11 <sup>th</sup> Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November 2017.
4.	Varuna Baglodi, <b>Jayaraj, E.G.</b> , Nesara, K.M. and Amogha, K.R. (2018). Evaluation of combined effects of yeast cell wall extract and spirulina based feed on the growth and health of <i>Catla catla</i> . Abstract published in the Book of Abstracts of the 11 <sup>th</sup> Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November 2017.
5.	<b>Jayaraj, E.G.</b> , Chandrakant Lingadhal, Salaskar, G.M. and Phillipose, K. (2018). Marine and estuarine fish seed resources of Uttara Kannada District, Karnataka. Abstract published in the Book of Abstracts of the 11 <sup>th</sup> Indian Fisheries and Aquaculture Forum held at Kochi, Kerala during 21-24 November 2017.
6.	Nesara, K.M., <b>Jayaraj, E.G.</b> and Varuna Baglodi. (2018). Probiotic influence of <i>Lactobacillus sporogenes</i> on gut histological features of Indian major carp <i>Labeo rohita</i> . Abstract published in the book of Compendium of Abstracts of the 10 <sup>th</sup> Annual KSTA Conference on Science and Technology for Future of Humanity held at Reva University, Bangalore during 18-19 <sup>th</sup> January 2018.

### Extension Publications

1	Jayaraj, E.G., Basavaraj, N., Ramesh, K.S., Ganapathi Naik, M., Manjulesha pai, Abhiman, P.B. and Surendranath (Eds.). 2018. A hand book on fish farming for aquaculture technicians. Published by Director of Extension, KVAFSU, Nandi Nagar, Bidar. Pp 80
2.	Manjappa, K., Swamy, A.V., Jayaraj, E.G. and Nesara, K.M. (Eds.). 2018. Composite Fish Culture and Fish Seed Rearing. Published by the University of Agriculture and Horticulture Science, Shivamogga. Pp 82.
3.	Jayaraj, E.G. and Chandrakanth Lingadhal. 2018. Fish farming in sea cages. Extension folder published jointly by the Director of Extension, KVAFSU, Nandi Nagar Bidar and the Director, CMFRI, Kochi. Pp 4 Director of

	Extension, KVAFSU, Nandi Nagar, Bidar. Pp
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### Honours & Awards

1. Recipient of Best Teacher Award given away by Professional Fisheries Graduates Forum, Mumbai.
2. Certificate of Merit Award given by KVAFSU, Bidar for bringing extramural project grant from DBT, Delhi.
3. Certificate of Merit Award given by KVAFSU, Bidar for bringing extramural project grant from Lonestar International, USA
4. Certificate of Merit Award with cash prize by KVAFSU, Bidar for bringing extramural project grant from ICAR-CMFRI, Kochi, Kerala.

### Others Achievements (less than 200 words)

- Outlined 44 indigenous fish species having ornamental value from Western Ghats and malnad region of Karnataka.
  - Developed captive brood stock, breeding and rearing techniques for 16 fishes of Western Ghats, of which *Garra gotyla* has been bred for the first time in the world under captivity.
  - Developed mass propagation techniques for ornamental aquatic plants using special technique of nutrient bed technology.
  - Developed enzyme based ecofriendly ornamental fish feeds, carotenoid based ornamental fish feeds for color enhancement, probiotic based immunity provider feeds for larval fish rearing and earthworm manure based species specific feeds for Western ghat loaches.
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