



**Dr. P. V. Rangacharyulu**

**Principal scientist**

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<b>Institute/ University</b>	Central Institute of Freshwater Aquaculture ( <i>Indian Council of Agricultural Research</i> )
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<b>Date of birth</b>	15, April 1960
<b>Sex</b>	Male

### Academic Qualifications

1.	Ph.D (2000) in Science (ZOOLOGY), Kalyani University, W.B.
2.	M.SC (Dairying) (1984) in Animal Nutrition from Kurukshetra University (NDRI, Karnal Haryana)
3.	B.Sc. (1980) Andhra university

<b>Academic awards</b>	<ul style="list-style-type: none"> <li>• ICAR Team research Award for 2002-2004</li> </ul>
<b>Research experiences</b>	<ul style="list-style-type: none"> <li>• Fish and prawn Nutrition</li> <li>• Animal Nutrition</li> </ul>
<b>Current research interests</b>	<ul style="list-style-type: none"> <li>• Feed processing technology</li> <li>• Alternate feed resources</li> <li>• Alternate species culture systems</li> <li>• Diet development for Alternate species Pangasius suchi and C.straitas.</li> </ul>
<b>Current research projects</b>	<ol style="list-style-type: none"> <li>1. Outreach activity on fish feeds-feed mill and feed processing</li> <li>2. Alternate species culture systems development.</li> <li>3. Studies on Alternate feed resources</li> <li>4. Establishment of brood bank for m.rosenbergii.</li> </ol>
<b>Completed projects</b>	<ol style="list-style-type: none"> <li>1. Nutrition and dietary studies with carp, catfish and prawn.</li> <li>2. Mission mode project on Freshwater Prawn culture</li> <li>3. Nutritional Studies and diet development of cultivable carp, catfish and prawn.</li> <li>4. Feed formulation for Nutritional responses in selected freshwater fish.</li> <li>5. Nutrient dynamics in Freshwater Aquaculture</li> </ol>
<b>Publications</b>	<p><b>Research Papers</b></p> <p><b>P.V. RANGACHARYULU and NAWAB SINGH</b> (1985) “A note of the effect of ensiling urea Impregnated Wheat straw on voluntary intake and digestibility in Bufffaloes.” Indian J.Animal Nutrition 2:136-137.</p> <p><b>P.V. RANGACHARYULU and NAWAB SINGH</b> (1990) “Studies on feeding Urea U molasses-whey enriched Wheat straw to adult ruminants.” Indian Veterinary Journal. 67:441-444.</p> <p><b>P.V. RANGACHARYULU , S.SARKAR , S.N.MOHANTY, K.M.DAS and P.K.MUKHOPADHYAY</b> (1991) “Growth and protein utilization in Rohu under different feeding levels” Proc.Nat.sym Freshwater. Aqua. 95-97.</p>

**P.V. RANGACHARYULU , R.S.DASS , U.R. MEHRA and U.B.SINGH** (1993) “Effect of Urea / NH<sub>3</sub> and SO<sub>2</sub> gas treatment on in-situ disappearance of dry matter and fiber constituents of crop residues” Indian. J.Dairy science 46-7.

**P.V. RANGACHARYULU and S.SARKAR** (1995) “Growth and body composition of Rohu fed at different levels during winter”. Jr. of Aqua. 3:35-39.

**P.V. RANGACHARYULU, S. SARKAR and P.K.MUKHOPADHYAY.** (1996) “Growth and certain biochemical indices of clarius batrachus compounded diet regimes. 4 : 57-61  
**PAUL. B.N., RANGACHARYULU, P.V. SARKAR, S and MUKHOPADHYAY, P.K.** “Effect of feed colour on the growth performance and activity of digestive enzymes in Rohu (Labeo rohita) Fry” Jr. of Aquaculture 1996 4:15-18.

**SAROJ, K.SWAIN, P.V. RANGACHARYULU, S.SARKAR and K.M. DAS.** “Effect of probiotic supplement on growth and nutrient utilization and carcass composition in mrigal fry” Jr. of Aquaculture 1996. 4:29-35

**SAILAJA. M, P.V. RANGACHARYULU, and M. SRINIVASULU REDDY** (1998) “Free amino acid profiles of neural, mid gut and muscle tissues of peaniad prawn Penius monodon” Jr. of Aquatic. Biol 13 (1 & 2): 65-69.

**SAILAJA. M, M.V. BHASKAR REDDY., P.V. RANGACHARYULU and M.SRINIVASULU REDDY** “Changes in fattyacid profiles during the development stages of tropical penaeid prawn penaeus monodon” J. Aquatic. Biol 14 (1 & 2) 1999.

**P .V. RANGACHARYULU, S. SARKAR and P.K. MUKHOPADHYAY** (1999) “Effect of dietary vitamin-a supplementation on growth and survival of Rohu (Labeo rohita) fry”. J. Aqua 7 (1999): 33-36.

**P. V. RANGACHARYULU, B.N. PAUL, S. NANDI, S. SARKAR, P.K. MUKHOPADHYAY** (2000) “Effect of different dietary protein and energy levels on growth, nitrogen excretion and body composition of rohu (labeo rohita)”. Jr. of Aquaculture 8: 17 – 24.

**P. V. Rangacharyulu, S. S. Giri, B. N. Paul, K. P. Yashoda, R.**

Jagannatha Rao, N. S. Mahendrakar, S. N. Mohanty and P. K. Mukhopadhyay(2003) “Utilization of fermented silkworm pupae silage in feed for carps” *Bioresource Technology* 86(11) 29-32

P.K.MUKHOPADHYAY, **P.V. RANGACHARYULU**, GOPA MITRA AND B.B.JANA(2003) “Applied nutrition in freshwater prawn *Macrobrachium rosenbergii* culture” *Jr. of Applied Aquaculture (special issue)* 13(3/4):317-340

B. N. Paul, S. Sarkar, S. S. Giri, **P. V. Rangacharyulu** and S. N. Mohanty. (2004) “Phosphorus requirements and optimum calcium/phosphorus ratio in the diet of mrigal *Cirrhinus mrigala* (Ham.) Fingerlings”. *Journal of Applied Ichthyology* **20**:4, 306-309

S.S. Giri, S.K. Sahoo, S. Lenka, **P.V. Rangacharyulu**, B.N. Paul, A.K. Sahu, S.N. Mohaty and P.K. Mukhopadhyay (2005) “Effects of partial replacement of fish meal with Meat meal, Goat liver and shrimp meal on growth and survival of *Clarias batrachas*” *Indian Jr. Anim. Sci* 75(8) 977-981

S. Dash, P. Swain, S.K. Nayak, P.K. Nanda, **P.V. Rangacharyulu**, B.K. Mishra and S.K. Swain “ A survey of some major bacterial diseases in key freshwater aquaculture zones of India: Andhra Pradesh, West Bengal and orissa *E-planet* (2008) 6(2): 12-17

### Abstracts

S.C.MUKHERJEE, PHALGUNI PATNAIK, **P.V. RANGACHARYULU**, GAYATRI MURJANI and S.D. TRIPATHI (1993). “A preliminary study of poultry, duck and quail droppings as potential feed and manure in Aquaculture” *Proc. Nat. meet on Aqua farming systems practices and potentials.*

K.JANARDHANA RAO, **P. V. RANGACHARYULU** and BINDU R. PILLAY. “A two phase larval rearing systems of *Macrobrachium rosenbergii* Nat. Workshop on prawn farming in India, March 17-18 abs-5 CIFE Mumbai.

**P. V. RANGACHARYULU**, B.N. PAUL, S. BANDI, S. SARKAR, P.K. MUKHOPADHYAY “Low pollution diet for carp culture” *Nat.seminar on fish biology* 10-11 Jan 1997. Santiniketan NTG-1 page1.

**P. V. RANGACHARYULU** and S.SARKAR. “Effect of feeding varying levels of protein on growth and carcass composition in Labeo kalbasu” Nat. workshop on fish and prawn feeds, 2-3 Sep 1997 CIFA Bhubaneswar.

**P. V. RANGACHARYULU**, M.K. SINHA and K.J. RAO. “Development of indigenous feed for growth-out phase of Macrobrachium rosenbergii” Nat. workshop on fish and prawn feeds 2-3 Sep 1997 CIFA Bhubaneswar. Page-36.

K.J. RAO, **P.V. RANGACHARYULU**, M.K. SINHA and M. RANADHIR “Economics of establishment of commercial prawn feed mill”. Nat. workshop on Aquaculture Economics 6-8 Oct 1998 CIFA Bhubaneswar. Page-18.

**P. V. RANGACHARYULU**, M.K. SINHA, K.J. RAO and P.K. MUKHOPADHYAY. “Effect of JHF-500 on growth and survival of M. rosenbergii”. Abs NO.24. National workshop on Freshwater Prawn farming 20-21, April 1999 at CIFA Bhubaneswar.

**P. V. RANGACHARYULU**, P.K. MUKHOPADHYAY and B.B. JANA “Effect of lipid level in isonitrogenous diets on growth of M.rosenbergii”. Abs No-45, Fifth Indian Fisheries Forum 17-20 Jan 2000 CIFA, Bhubaneswar.

**P. V. RANGACHARYULU**, K.J.RAO, P.K. MUKHOPADHYAY AND B.B. JANA “Evaluation of formulated diets for growth and nutrient utilisation in M. rosenbergii”. National workshop on Aquaculture of Freshwater prawn 8-9 Feb 2000, Nellore A.P.Abs no-65.

### Popular Articles/ Lecture notes

R.S. DASS and **P.V. RANGACHARYULU** (1992) “Detoxification of mimosine in leucaena leucocephala” Livestock Advisor. 17 (12): 14 – 16.

Kumaraiah P., **P.V.Rangacharyulu** and B.Seshagiri (2005). “Scope of Aquaculture in Oil palm industry”. In proc of Nat Sim on Research and development oil palm in India

	<p>B.N.PAUL, S. NANDI, S.SWAIN, <b>P.V. RANGACHARYULU</b>, S. N. MOHANTY and P.K.MUKHOPADHYAY. "Role of nutrition in Aquaculture" Matsya samachar April – June 1996 Directorate of fisheries, Govt. of Tripura.</p> <p>S. NANDI, <b>P.V. RANGACHARYULU</b>, and P.K. MUKHOPADHYAY (1997) "Aspects of carp broodstock nutrition" Fishing chimes 17 (9): 7 – 8.</p> <p>Fish Feed Technology-Compedium of lectures in training programme on Nutrition in Freshwater Aquaculture. P-107 16-23 Nov 1992 CIFA, Bhubaneswar.</p> <p>Feed processing in Aquaculture in Course manual Training programme on Recent advances in Aquaculture 1997 page- 37 – 52 at Dept. of Aquaculture College of Fisheries Mangalore., 11: 265-270.</p> <p>Giri, S.S., Sahoo, S.K., Rath, S.C., <b>Paul, B.N.</b>, Rangacharyulu, and Mohanty, S.N. (2010). Fish Nutrition, feeds and feeding with special emphasis to Indian major carp polyculture. Proc.of 7<sup>th</sup> Biennial ANA Conference held at Bhubaneswar, 17-19Dec., 2010.pp 96-98.</p> <p>Giri, S.S., <b>Paul, B.N.</b>, Sahoo, S.K., Rangacharyulu, P.V., Rath, S.C. and Mohanty, S.N. (2010). Fish oils and Cardio-vascular Health. Fishing Chimes, 30:37-39.</p>
<p><b>Expert Consultation (FAO)</b></p>	<p>Acted as an expert member in Group2-Nutrition and Feeding under <b>FAO/CIFA/NACA</b> Expert Consultation on the Intensification of Food production in Low Income Food Deficit Countries through Aquaculture, held at Bhubaneswar, India,16-19 October 2001, published in <b>FAO Fisheries Report No.718 (2003)</b></p>
<p><b>Workshop abstracts</b></p>	<p>Ayyappan, S., Mukhopadhyay, P.K., Mohanty, S.N., Rangacharyulu, P.V., Nandi, S., Jena, J.K., and <b>Paul, B.N.</b>, (1997). (Eds.) Abstracts, National Workshop on Fish and Prawn Feeds 2-3 September, 1997, Sponsored by Dept. of Biotechnology, Govt. of India, and Organised by CIFA and Association of Aquaculturists, Kausalyaganga, Bhubaneswar -751 002.</p>