



Dr. Rajesh Kumar

Scientist

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Department	Aquaculture Production and environment division (Murrel and Anabas unit)
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Date of Birth	11 th December 1977
Sex	Male
Academic Qualifications	
1.	Ph.D (2008) in Fish and Fisheries Science with specialization on Fish Pathology and microbiology from Central Institute of Fisheries Education (CIFE), Mumbai
2.	M.F.Sc. (2004) in Fish Pathology and microbiology from Central Institute of Fisheries Education (CIFE), Mumbai
3.	B.F.Sc (2002) in Fisheries Science from College of Fisheries, Mangalore (UAS, Bangalore)

Academic Awards	<ul style="list-style-type: none"> ➤ Recipient of scholarship during B.F.Sc programs at College of Fisheries, Mangalore, Karnataka. ➤ Recipient of ICAR JRF for Master Programs in Fish Pathology and Microbiology at Central Institute of Fisheries Education (Deemed University), Mumbai. ➤ Recipient of CSIR-UGC Junior Research Fellowship for Ph.D in Fish Pathology and Microbiology at Central Institute of Fisheries Education (Deemed University), Mumbai. ➤ Qualified in Indian Council of Medical Research JRF (ICMR-JRF) during 2004 under the ICMR fellowship scheme. ➤ A Certificate of appreciation from ICAR-NAIP, New Delhi to our NAIP sub project “A value chain on murrel production in Tamil Nadu and Orissa” for effective implementation and delivering desired output. ➤ Young scientist award-2012 for the outstanding contribution in the field of aquaculture production by the Bioved Research Society, Allahabad.
Research Experiences	<ul style="list-style-type: none"> ➤ Probiotics in Aquaculture ➤ Breeding and husbandry of Air breathing fishes
Current Research Interests	<ul style="list-style-type: none"> ➤ Breeding and husbandry of Air breathing fishes ➤ Freshwater productivity enhancement ➤ Water management
Current Research Projects	<ul style="list-style-type: none"> ➤ Captive breeding of striped snakeheads <i>Channa striatus</i> for seed production (PI; 2011-14) ➤ NAIP Project “A value chain in murrel production in Tamil Nadu and Orissa” (CoPI; 2008-2013) ➤ Sustainable livelihood improvement through integrated freshwater aquaculture, horticulture and livestock development in Mayurbhanj, Keonjhar and Sambalpur Districts of Orissa (CoPI; 2008-2012).
Research Projects Completed	<ul style="list-style-type: none"> ➤ Culture of striped murrel, <i>Channa striatus</i> and development of practices and packages (CoPI; 2008-2009) ➤ Farming of freshwater climbing perch, <i>Anabas testudineus</i> and development of technological package (CoPI; 2008-2010)

	<ul style="list-style-type: none"> ➤ Studies on Indian freshwater pearl mussel with reference to nacre formation (CoPI; 2008-2010) ➤ Development of livelihood through freshwater aquaculture for the tribal people of North eastern states (CoPI; 2009-12)
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Publications

Research Papers

1. Rajesh Kumar, Mukherjee S.C, Prasad K.P, Pal A.K. 2006 Evaluation of *Bacillus subtilis* as a probiotic to Indian Major Carp, *Labeo rohita*. *Aquaculture Research* 37, 1215-1221. (NAAS Rating-7.5 and Citation- 43)
2. Rajesh Kumar, Mukherjee S.C, Ritesh Ranjan, Nayak S. K. 2008 Enhanced immune parameters in *Labeo rohita* (Ham.) following oral administration of *Bacillus subtilis* *Fish and Shellfish Immunology* 24, 168-172. (NAAS Rating- 7.9 and Citation- 37)
3. Vani T., Saharan N., Mukherjee S.C., Ritesh ranjan, Rajesh kumar* and R. K. Brahmchari. Deltamethrin induced alterations of hematological and biochemical parameters in fingerlings of *Catla catla* (Ham.) and their amelioration by dietary supplement of Vitamin C. *Pesticide biochemistry and physiology* 101, 16-20 (NAAS Rating- 7.6)
4. B. B. Sahu, Kuldeep Kumar, A. K. Sahoo, Rajesh Kumar, Utkal Laxmi mohanty, Noor Jahan, Minakshi sahu and Ambekar E. Eknath(2010): Carcass characteristics of marketable size Striped murrel *Channa striatus* (Bloch, 1973), *Journal of Applied Ichthyology* DOI: 10.1111/j.1439-0426.2011.01917.x (NAAS Rating- 7.4)
5. T. Vani, N. Saharan, S. D. Roy, Ritesh ranjan, A. K. Pal, G.M. Siddaiah and Rajesh kumar. Alteration in haematological and biochemical parameters of *Catla catla* exposed to sublethal concentration of cypermethrin. *Fish physiology and Biochemistry*. DOI 10.1007/s10695-012-9650-0.
6. B. B. Sahu, Kuldeep Kumar, A. K. Sahoo, Rajesh Kumar, U. L .mohanty, Noor Jahan, Minakshi sahu and P. Jayasankar. Quality and storage stability of low acid murrel, *Channa striatus* pickle at room temperature. *International food research journal*. (Communicated)

<p>Popular Articles</p>	<ol style="list-style-type: none"> 1. Eknath A E, Kumar K, Jena J K, Mohanty U L, Kumar R, Jahan N and Sahoo M. 2010. Murrel: An ideal fish for mass production” published in souvenir released during Assam Matsya Mahotsav, 30th Jan- 1st Feb, pp 105-109. 2. Kuldeep Kumar, A. E. Eknath, A. K. Sahu, U. L. Mohanty, Rajesh Kumar, M. Sahoo and Noor J. (2011): Snake heads: Challenging fish for diversification of fish farming. Fishing Chimes, Vol. 31 No. 1, pp 110-113 3. B. B. Sahu, Kuldeep Kumar, A. K. Sahu, U.L. Mohanty, Rajesh Kumar, M. Sahoo and Noor J and A. E. Eknath, (2011): Processing and value addition to murrel in value chain. Fishing Chimes, Vol. 31 No. 1, pp 106-108 4. Kuldeep Kumar, A. K. Sahu, Rajesh Kumar, U. L. Mohanty, M. Sahoo & Noor J. (2011): Murrel Culture in Odisha: A Humble Beginning; <i>Aquaculture Innovators. Central Institute of Freshwater Aquaculture, ICAR, Kausalyaganga, Bhubaneswar</i>, pp. 106-113.
<p>Success Stories</p>	<p>➤ Murrel culture in Odisha: A humble beginning. K.Kumar, A.K.Sahu, Rajesh Kumar, U. L. Mohanty, M. Sahoo & Noor J. (2011): <i>Aquaculture Innovators. Central Institute of Freshwater Aquaculture, ICAR, Kausalyaganga, Bhubaneswar</i>. pp. 106-113.</p>
<p>Book Chapters</p>	<ol style="list-style-type: none"> 1. K. Kumar, U. L. Mohanty, Rajesh Kumar. Breeding and rearing of the Climbing perch, <i>Anabas tesudineus</i>. In: A training manual on Breeding, seed production and grow-out farming of fishes for the fish farmers of Sri Lanka. 19-27 December, 2008. pp. 35-37. 2. K. Kumar, A. K. Sahu, Rajesh Kumar, U. L. Mohanty, M. Sahoo & Noor J. A training manual on “Murrel Seed Production and Culture” has been developed and it was released by the Director, CIFA, Kausalyaganga pp. 1-20. 3. K. Kumar, B. B. Sahu, A. K. Sahu, Rajesh Kumar, U. L. Mohanty, M. Sahoo & Noor J. A training manual on “Value Addition: Flavours from Murrel” has been developed and it was released by the Director, Central Institute of Freshwater Aquaculture, Bhubaneswar. pp. 4. K. Kumar, A. K. Sahu, Rajesh Kumar, U. L. Mohanty, M. Sahoo & Noor J. Murrel farming. A manual for farmers. CIFA, Kausalyaganga. pp. 1-13

<p>Pamphlets/ Bulletin/ Manual</p>	<ol style="list-style-type: none"> 1. K. Kumar, A. K. Sahu, Rajesh Kumar, and U. L. Mohanty. Fact sheets on <i>Anabas testudeneus</i> and <i>Channa</i> have been developed and the same was released by Honourable Minister of Fisheries, Govt. of Assam during the launching ceremony of Networking of Scientists and Development of Aquaculture in North Eastern Region, held during 5-6 December, 2010 at Guwahati. 2. Kuldeep Kumar, B. B. sahu, Rajesh Kumar, U. L. Mohanty, M. Sahoo, N. Jahan, A. K. Sahu, J. K. Jena and A. E. Eknath. A pamphlet has been made on processing and value addition of murrel. Central Institute of Freshwater Aquaculture, Bhubaneswar. 3. Kuldeep Kumar, A. K. Sahu, Rajesh Kumar, U. L. Mohanty, M. Sahoo, N. Jahan, J. K. Jena and A. E. Eknath. A pamphlet has been made Farming of Snakeheads. Central Institute of Freshwater Aquaculture, Bhubaneswar. 4. Kuldeep Kumar, A. K. Sahu, Rajesh Kumar, U. L. Mohanty. A CD has been developed on value addition of murrels. CIFA, Kausalyaganga.
<p>Abstracts</p>	<ol style="list-style-type: none"> 1. Rajesh Kumar, S. C. Mukherjee, Ritesh Ranjan (2008). Changes in hematological and serum parameters following <i>Bacillus subtilis</i> administration in <i>Catla catla</i>. P-AEH 47, 8th Indian Fisheries Forum, November 22-26, Kolkata, India. 2. Kuldeep Kumar, Dushyant K. Damle, Noor Jahan, Mnakshi Sahoo, Utkal L. Mohanty and Rajesh Kumar. Formulation of cost effective feeds from locally available animal based ingredients for <i>Channa striatus</i> fingerlings” has been presented at the golden jubilee national seminar on Diversification of Aquaculture through locally available fish species (DALAF-2010) held during 27-28 August 2010 at CIFE centre, Kolkata 3. Rajesh Kumar, Kuldeep Kumar, Utkal L. Mohanty, and Noor Jahan. Evaluation of different feed for their efficacy on growth of climbing perch <i>Anabas testudineus</i> (Bloch), Aquaculture Asia 2011, Kochi held during 17-20Jan. 2011. 4. Kuldeep Kumar, Utkal L. Mohanty, Rajesh Kumar, Noor Jahan, Dushyant Kumar Damle and Minakshi Sahoo. Production of

snakeheads with different stocking densities in pond ecosystem. Poster no. 336 Aquaculture Asia 2011, Kochi. held during 17-20Jan. 2011.

5. Kuldeep Kumar, Rajesh Kumar, Utkal L. Mohanty and Noor Jahan. Effect of different formulated feeds on growth of climbing perch, *Anabas testudineus*. Poster no. 178 Aquaculture Asia 2011, Kochi held during 17-20Jan. 2011.
6. Kuldeep Kumar, Minakshi Sahoo, Noor Jahan, A. K Sahu, Rajesh Kumar, Utkal L. Mohanty, and A. E. Eknath. Murrel culture - A panacea for the farmers. 13th Indian Agricultural Scientists & farmers' congress, 19-20 February, 2011, Bioved, Allahabad.
7. Kuldeep Kumar, Rajesh Kumar, Utkal L. Mohanty, M. Sahoo and A. K Sahu. Murrel culture – Snakeheads: suitable candidate species for Aquaculture. 14th Indian Agricultural Scientists & farmers' congress, 18-19 February, 2012, Bioved, Allahabad.

