Division of Livestock and Fishery Management

Personal Details

Dr. Kamal Sarma
Principal Scientist

Address : ICAR Research Complex for Eastern Region, Patna- 800014
Email-ID: kamalsarma6@rediffmail.com

Research Interest

Aquaculture, stress physiology and aquatic environment

Research Highlights

Stress physiology and aquatic environment related aspects

Memberships / Fellowships

Technology Developed

Publication Details

1. **Kamal Sarma**, A. K. Pal, N. P. Sahu, R. S. Dalvi, Nirupama Chatterjee, S. C. Mukherjee, Kartik Baruah. 2011 . Acute and chronic effects of endosulfan on the haemato-immunological and histopathological responses of a threatened freshwater fish, spotted murrel, *Channa punctatus. Fish Physiol Biochem*, DOI 10.1007/s10695-011-9530-z.
2. **Kamal Sarma,** A. K. Pal, N. P. Sahu, R. S. Dalvi, Nirupama Chatterjee, S. C. Mukherjee, Kartik Baruah. 2011. Acute and chronic effects of endosulfan on the haemato-immunological and histopathological responses of a threatened freshwater fish, spotted murrel, *Channa punctatus. Fish Physiol Biochem*., DOI 10.1007/s10695-011-9530-z.
3. **Kamal Sarma,** N. Ravisankar, S. Dam Roy, G. Grinson and R.C. Srivastava. 2009. Prospects of Fish Culture in the Broad Bed and Furrow system in Andaman: A Case Study. Environment and Ecology, 28(1):86-90.
4. **Kamal Sarma,** A. K. Pal, N. P. Sahu , S. C. Mukherjee, Kartik Baruah. 2009. Biochemical and histological changes in the brain tissue of spotted murrel, *Channa punctatus* (Bloch), exposed to endosulfan. *Fish Physiol. Biochem*. 36(3):597-603.
5. **Kamal Sarma**, A. K. Pal, Grinson George and Kartik Baruah. 2015. Effect of sublethal concentration of endosulfan on fatty acid profile of spotted murrel, *Channa punctatus*. *Journal of Environment Biology*, 36(2) : 451-454.
6. **Kamal Sarma,** A. K. Pal, Kartik Baruah, 2011. Alterations of the ionic composition in different organs of spotted murrel (*Channa punctatus*) exposed to sublethal concentration of endosulfan. *Turkish Journal of Fisheries and Aquatic Sciences* 11: 93-99.

7. **Kamal Sarma,** Anand Kumar A, Grinson George, Krishnan Pandian, Prabakaran K, Sibnarayan Dam Roy, Ramesh Chandra Srivastava. 2012. Impact of coastal pollution on biological, biochemical and nutritional status of edible oyster, *Crassostrea rivularis*, (Gould,1861)in Phoenix Bay Jetty and North Wandoor of Andaman. *Indian Journal of Animal Sciences*, 83 (3): 321–325.
8. **Kamal Sarma**, K. Prabakaran, P. Krishnan , G. Grinson and A. Anand Kumar. 2012. Response of a freshwater air-breathing fish, *Clarias batrachus* to salinity stress: an experimental case for their farming in brackishwater areas in Andaman, India. *Aquacult Int* , DOI 10.1007/s10499-012-9544-2
9. **Kamal Sarma**, Pal AK, Sahu NP, Ayyappan S. and Baruah K. 2009. Dietary high protein and vitamin C mitigates endosulfan toxicity in the spotted murrel, *Channa punctatus* (Bloch,1793). *Sci Total Environ.* 407(12):3668-73.
10. **Kamal Sarma**., A. K. Pal, S. Ayyappan, T. Das, S. M. Manush, Dipesh Debnath and Kartik Baruah. 2008. Acclimation of *Anabas testudineus* (Bloch) to three test temperatures influences thermal tolerance and oxygen consumption. *Fish Physiology and Biochemistry*. 10.1007/s10695-008-9293-3.
11. Binod Kumar Choudhary, **Kamal Sarma**, Sullip K. Majhi, D. K. Kaushal, A. Dey and B.P. Bhatt. 2013. Climate Change and Its Impact on Fisheries and Aquatic. Ecosystem in Bihar. *International Journal of Advanced Research*, 2(1): 587-592.
12. Chatterjee, N., A. K. Pal, T. Das, R. Delvi, M.S, Mohammod, **Kamal Sarma**, R.C. Mukherjee, K. Baruah. 2009. Effect of stocking density and journey length on welfare of rohu (*Labeo rohita* Hamilton). *Aquaculture International*. DOI 10.1007/s 10499-009-9309-8.
13. Chatterjee, N., A.K. Pal, T. Das, S. M. Manush, **Kamal Sarma**, G. Venkatashwarlu and S.C. Mukherjee. 2006. Secondary stress responses in Indian major carps *Labeo rohita* (Hamilton 1822), *Catla catla* (Hamilton 1822) and *Cirrhinus mrigala* (Hamilton 1822) fry to increasing packing densities. *Aquaculture Research* 37:472-476.
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17. Grinson George, **Kamal Sarma,** M.P. Goutham Bharathi, M. Kaliyamoorthy P. Krishnan and Kirubasankar, 2013. Efficacy of different modes in disseminating potential fishing zone (PFZ) forecasts a case study from Andaman and Nicobar Island. *Indian J. Fish*., 61(1) : 84-87, 2014
18. Grinson George, P. Krishnan, **Kamal Sarma**, R. Kiruba Sankar, M.P. Gautam Bharati, M. Kaliamoorthy,, V. Krishnamurthy, T. Srinivas Kumar. 2011. Integrated potential fishing zone (IPFZ)forecast: a promising information and communication technology tool for Promotion of green fishing in the islands. *Indian Journal of Agricultural economics.*
19. Grinson George, Pandian Krishnan1, Sibnarayan Dam Roy, **Kamal Sarma**, M. P.

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21. Krishnan P, Balasubramaniam M, Roy SD, **Sarma K**, Hairun R, Sunder J. 2014. Characterization of the antibacterial activity of bacteria associated with *stylissasp,* a marine sponge. *Adv. Anim. Vet. Sci.* 2 (1): 20 – 25.
22. Kumar U., Sarkar Bikash, Dey A., **Kamal Sarma** and Bhatt B.P. 20016. Energy use efficiency of oyster mushroom production in a selected tribal village . International Journal of Agriculture Sciences. 8 (7): 1069-1071.
23. Renjith V.R., D. D. Thresyamma, **Kamal Sarma**, Grinson George, Prabhakar Shirodkar, Ponnumony Vethamony. 2015. Influence of natural and anthropogenic factors on the water quality of the coastal waters around the South Andaman in the Bay of Bengal. *Natural Hazards.* **78:309-331.**
24. Sagar C. Mandal, Mahinder P. S. Kohli, Pronob Das, Soibam K. Singh, Sukham Munilkumar, **Kamal Sarma**, Kartik Baruah. 2011. Effect of substituting live feed with formulated feed on the reproductive performance and fry survival of Siamese fighting fish, *Betta splendens* (Regan, 1910). *Fish Physiol Biochem* DOI 10.1007/s10695-011-9539-3.
25. Sheery, P. M., Kaushal, D. K., Choudhary, B. K., **Sarma, K.,** Mohanty, S.,Kumar, T and Dey,A 2016. Culture of *Macrobrachum rosenbergii*, Under Mono and Poly Culture System in Bihar. *Environment & Ecology*, 34(4C): 1922-1926