

LIST OF PUBLICATIONS BY THE AUTHOR

a) Publications in peer reviewed journals:

1. **B. Madhusudana Rao** and M. V. Subba Rao. (1999). An indirect IgM-ELISA for diagnosis of sheep pox virus infection. *Indian Veterinary Journal*, vol 76 (12), pp 1050-1054
2. **B. Madhusudana Rao** and P K Surendran. (2000). Occurrence of coliphages in fish and aquaculture farms. *Fishery Technology*, vol 37(2), pp:146-149
3. **B. Madhusudana Rao** and P.K. Surendran. (2001). Coliphages in fish and fishery environment. *Applied Fisheries and Aquaculture*, vol 1, pp: 87-89.
4. **B. Madhusudana Rao** and P. K. Surendran. (2003). Microbial Populations in Deep Sea Water and Fish of South East Arabian Sea with special emphasis on *Escherichia coli* and Coliphages. *Fishery Technology*, vol. 40 (2), pp : 105 – 114.
5. R. Chakrabarti, **B. Madhusudana Rao** and P.G. Viswanathan Nair. (2004) Suitability of soluble protein concentrate from tuna liver for the growth of sulphite reducing *Clostridia*. *Journal of Food Science and Technology*, 41 (4), pp 405-408
6. A. K. Chattopadhyay, **B. Madhusudana Rao**, Sibsankar Gupta. (2004). A simple process for the utilization of seasonal surplus catches of small bony fish as edible fish powder. *Fishery Technology*, vol 41(2), pp 117-120).
7. U.S. Jayaprakash Babu, **B. Madhusudana Rao***, D. Imam Khasim, K.G. Ramachandran Nair. (2005). Biochemical changes and microbiological quality of formic acid silage and lactobacillus fermented fish silages. *Fishery Technology*, vol. 42 (2), pp 163-170.
8. **B. Madhusudana Rao**, Gupta, S. and Surendran, P.K. (2006). Microbial quality of post-tsunami seafood of the Visakhapatnam coast. *Fishery Technology*, 43, pp192-197.
9. R. Chakrabarti and **B. Madhusudana Rao**. (2008) The suitability of muscle of *Cirrhinus mrigala* in the formation of gel: a comparative electrophoretic study of six tropical carp meats. *International Journal of Food Science and Technology*, 43, 179–184
10. R. Chakrabarti and **B. Madhusudana Rao**. (2008) Effect of storage in commercial deep freezer (-20C) on quality of four tropical freshwater carp meats. *Journal of Food Science and Technology*, 45 (2), 157–160
11. A.K. Chattopadhyay, **B. Madhusudana Rao** and Sibsankar Gupta (2008). Edible fish powder from small sized Indian major carps. *Fishery Technology*, 45, pp 181-188
12. **B. Madhusudana Rao** and D.I. Khasim (2009). Hydrogen sulphide producing bacteria as indicators of spoilage of freshwater fish, rohu (*Labeo rohita*). *Journal of Food Science and Technology*, 46(4), 377-379
13. **B. Madhusudana Rao**, US Jayaprakash Babu and D Imam Khasim. Microbiological quality of fermented fish silage. *Journal of Food Science and Technology*, 46(5), 488-490.

b) Papers presented in Seminars :

1. **B. Madhusudana Rao** and P.K.Surendran. (2000). Bacteriophages as indicators of pollution in Fish and Aquaculture farms, presented at The National Seminar in Official Language on 'Pollution in Aquatic environment and its impact on Fishery

Resources' on 6th & 7th September 2000, Central Institute of Fisheries Technology, Cochin.

2. **B. Madhusudana Rao**, Prasad, M. M. and Sibsankar Gupta. (2002). Bacteriological Quality of Fish and Fishery products of Visakhapatnam Region presented at the Symposium on Seafood Safety: Status and Strategies, 28th to 30th May 2002, Cochin.
3. **B. Madhusudana Rao** and P. K. Surendran. (2003). Coliphage test: a quick and easy method to detect faecal pollution in Water and Fish. In : *Seafood Safety* (Surendran P.K., Mathew, P.T., Thampuran, N., Nambiar, V.N., Joseph, J., Boopendranath, M.R., Lakshmanan, P.T. & Nair, P.G.V., Eds.) pp: 554-561, Society of Fisheries Technologists (India), Cochin.
4. **B. Madhusudana Rao**, M.M. Prasad, R. Chakrabarti, D. Imam Khasim, S.S. Gupta and C.C. Panduranga Rao. (2005). Bacteriological and toxicological quality of fish, fishery products and fishery environment in Andhra Pradesh. In: *Sustainable Fisheries Development – Focus on Andhra Pradesh*, (Boopendranath, M.R., Mathew, P.T., Gupta, S.S., Pravin, P. and Jeeva, J.C., eds.), p. 200-207, Society of Fisheries Technologists (India), Cochin.
5. A. K. Chattopadhyay, **B. Madhusudana Rao**, R. Chakrabarti and Sibsankar Gupta. (2005). Value-added fish products from low-priced bony fish In: *Sustainable Fisheries Development – Focus on Andhra Pradesh*, (Boopendranath, M.R., Mathew, P.T., Gupta, S.S., Pravin, P. and Jeeva, J.C., eds.), p. 173-177. Society of Fisheries Technologists (India), Cochin.
6. G. Padmaja, **B. Madhusudana Rao** and P.K. Surendran. (2005). Microbial risk assessment of fresh water fish intended for internal trade. In: *Sustainable Fisheries Development – Focus on Andhra Pradesh*, (Boopendranath, M.R., Mathew, P.T., Gupta, S.S., Pravin, P. and Jeeva, J.C., eds.), p. 208-214, Society of Fisheries Technologists (India), Cochin.
7. **B. Madhusudana Rao**, J. Charles Jeeva, D. Imam Khasim. (2005). Palm Impression Technique : A simple tool to popularize good hygiene and sanitation practices among fish handlers. In: *Sustainable Fisheries Development – Focus on Andhra Pradesh*, (Boopendranath, M.R., Mathew, P.T., Gupta, S.S., Pravin, P. and Jeeva, J.C., eds.), p. 248-252, Society of Fisheries Technologists (India), Cochin.
8. D. Imam Khasim, J. Charles Jeeva, **B. Madhusudana Rao** and S.S.Gupta. (2005). Processing and value addition of freshwater fishes in Andhra Pradesh. In: *Sustainable Fisheries Development – Focus on Andhra Pradesh*, (Boopendranath, M.R., Mathew, P.T., Gupta, S.S., Pravin, P. and Jeeva, J.C., eds.), p.166-172. Society of Fisheries Technologists (India), Cochin.
9. **B. Madhusudana Rao**, P.K. Surendran and Sibsankar Gupta. Polymerase Chain Reaction : Tiger jheenga (*Penaeus monodon*) utpadhan me is ka prayog. Paper presented at National Seminar in official language titled 'Capture and Culture Fisheries' organized by Visakhapatnam research Centre of Central Institute of Fisheries Technology on 10th September 2004 at Visakhapatnam.

c) Popular articles:

1. **B. Madhusudana Rao**, J. Charles Jeeva and Imam Khasim. Palm Impression Technique: A tool to popularize hygiene literacy among fish handlers – **Fishing Chimes**, vol 24, No 7, October 2004, pp 32-33; **Seafood News**, July & August

- 2004, pp5-6; **Jaladhi**, 2004, pp 65-69; **Fish Technology Newsletter**, vol XV, No 4, p1-3; **ICAR News** 2005, vol.11(2), pp 18-19.
2. A. K.Chattopadhyay, **B. Madhusudana Rao** and Sibsankar Gupta (2006) Edible Fish Powder from Small Sized Freshwater Carps. **Fish Technology Newsletter**, vol XVII, No 4, December 2006 p-3.
 3. D. Imam Khasim, **B. Madhusudana Rao** and A. K.Chattopadhyay (2009). CIFT attempts to address the problem of hypertension among people through potassium supplemented fish products. **Fish Technology Newsletter**, Vol XX, No 1, Jan-Mar 2009, pp 2-4. **ICAR News**, Jul – Sep 2009, Vol 15 (3), pp 20
 4. D. Imam Kasim, **B. Madhusudana Rao** and A. K. Chattopadhyay. Insulated fish Bags for hygienic handling of iced-fish. **ICAR News**, April-June 2009, Vol 15 (2), pp 20-21.

d) Papers approved for publication by The Director, CIFT, Cochin

- Activity index: a tool to compare enzymatic activity potential of bacteria by P.K.Surendran, O.K.Sindhu and B. Madhusudana Rao

Radio talks:

1. Gave a radio talk on ‘*chepala nanyathaku patinchavalasina vidhanulu in Telugu* (Steps to improve the quality of fish)’ broadcasted by All India Radio, Visakhapatnam on 1st Aug 2006.
2. Gave a radio talk on ‘*chepala nanyatha : sookshmajeevula pathra in Telugu* (Fish quality : Role of Microorganisms)’ broadcasted by All India Radio, Visakhapatnam on 8th Nov 2009.

Awards for publications:

- ✓ Awarded Dr S Vancheeswara Iyer Memorial Gold Medal by the Indian Veterinary Association in 2001 for the paper published in Indian Veterinary Journal, Vol 76, 1999
- ✓ Best paper award given by the Society of Fisheries Technologists (India), Cochin in 2004 for the paper published in Fishery Technology, Vol 42, No 2, 2003.

Papers from the Thesis

- Duplex PCR for the simultaneous detection of *V. cholerae* and differentiation of cholera toxin producing *V. cholerae* and incidence of potential cholera-toxigenic *V. cholerae* in shrimp aquaculture system’ by B. Madhusudana Rao and P K. Surendran (approved by the Director, CIFT for publication)
- Genetic heterogeneity of Non O1 and Non O139 *Vibrio cholerae* isolates from shrimp aquaculture system : a comparison of RS, REP and ERIC PCR fingerprinting approaches’ by B. Madhusudana Rao and P. K. Surendran (approved by the Director, CIFT for publication)