

Papers presented in International and National Conferences

International Conferences Abroad

2008 The 7th International Symposium on Diseases in Asian Aquaculture at Taipei,

1. Immunoprophylactics of plant origin for fin fish Aquaculture.
2. Immunostimulatory effect of chloroform extract of *Nyctanthes arbor-tristis* seeds in *Oreochromis mossambicus*.

2005 VI Symposium on Diseases in Asian Aqua culture, Colombo, Srilanka.

3. Effect of *Eclipta alba* leaf extracts on the immune response of *Oreochromis mossambicus*.
4. Immunomodulatory activity of *Solanum trilobatum* leaf extracts in *Oreochromis mossambicus*.
5. Immunostimulatory effect of water-soluble fraction of *Tinospora cordifolia* leaves on *Oreochromis mossambicus*.
6. Immunomodulation by few Indian medicinal plants in *Oreochromis mossambicus*.

2004 The 7th Asian Fisheries Forum 04 , The Triennial meeting of the Asian Fisheries Society at Penang, Malaysia.

7. Effect of *Solanum trilobatum* leaf extracts on the bacterial pathogens and immune response of *Oreochromis mossambicus*.
8. Immunostimulatory effect of medicinal plant *Nyctanthes arbor-tristis* in *Oreochromis mossambicus*.
9. Immunostimulatory effect of Selenium in Tilapia, *Oreochromis mossambicus*.

1998 3rd International Symposium on Aquatic Animal Health Organized by American Fisheries Society (Fish Health Section) at Baltimore.

10. Immunostimulatory effect of leaf extract of *Ocimum sanctum* Linn. in *Oreochromis mossambicus* (Peters)

1994 2nd World Fisheries Congress, Brisbane, Queensland, Australia.

11. Immunoindicators of environmental stress/pollution and of disease-outbreak in aquaculture.
12. Differential immunomodulatory effect of nickel compounds in *Oreochromis mossambicus* (Peters).

1995 4th Asian Fisheries Forum, Beijing, China

13. Effect of UV-b radiation on the antibody response in *Oreochromis mossambicus* (Peters)

14. Modulatory effect of the organic and inorganic forms of Mercury on the humoral immune response of *Oreochromis mossambicus* (Peters) to a soluble protein antigen
15. Relative efficacy of immersion and hyperosmotic infiltration methods of immunization in fish.

1994 6th Congress International Society of Developmental and Comparative Immunology, Wageningen, The Netherlands

16. Differential effect of Chromium compounds on the immune response in *Oreochromis mossambicus* (Peters).

1983 International Congress of Immunology, Kyoto, Japan.

17. Effect of splenectomy in the lizard *Calotes versicolor* differential response to differential forms of antigen.

International Conferences in India

2011 Eighth Symposium on Diseases in Asian Aquaculture, Mangalore on 21-25 November, 2011

18. Marine macroalgal immunostimulants- An alternative to finfish vaccines?
19. Inducible non-specific immune responses in striped murrel, *Channa striata*.
20. Effect of the macroalga, CFIMA 04 on the expression of immune response genes in the head kidney cells of the carp, *Cyprinus carpio*.

2006 Fourth International Symposium on Biocontrol and Biotechnology, Lady Doak College, Madurai

21. Immunostimulation by water soluble fraction of *Nyctanthes arbor-tristis* L. leaves in *Oreochromis mossambicus* (Peters).
22. Oral administration of *Solanum trilobatum* enhances specific immunity and disease resistance in *Oreochromis mossambicus*.
23. Enhancement of Nonspecific immunity and Disease resistance in *Oreochromis mossambicus* by *Eclipta alba*.
24. *Tinospora cordifolia* – A potential oral immunostimulant for *Oreochromis mossambicus*.

2003 International Conference on Disease Management for Sustainable Fisheries at Trivandrum

25. In search of immunostimulants of plant origin for finfish aquaculture.
26. Immunomodulatory effect of Chromium VI on the immune response of *Oreochromis mossambicus*.
27. Effect of confinement and sex ratio on the immune response in *Oreochromis mossambicus*.

National Conferences

2011 9th Indian Fisheries Forum, Chennai on 19-23 December, 2011

28. Marine Macroalgae – An Excellent Source of Immunostimulants for Finfish.

2011 National Workshop on Research advances in Fish Vaccines and Prophylactics, Tamilnadu Veterinary and Animal Sciences University, Fisheries College and Research Institute, Thoothukudi on 14-15 February, 2011

29. Plant (Marine And Terrestrial- Derived Immunostimulants – A Viable Alternative To Fish Vaccines

30. Disease protective and antibacterial properties of a Phaeophyceae macroalga

31. Immunomodulatory properties of a Phaeophyceae macroalga in the carp, *Cyprinus carpio*

32. Enhancement of non-specific immune responses and disease protective properties of Phaeophyceae Macroalga (CFI-MA 01) in *Oreochromis mossambicus* (PETERS)

33. Inducible non-specific immune responses in *Channa striata* (Bloch)

34. Diel variation of humoral nonspecific immune mechanisms in *Channa striatus* (Bloch)

35. Immunostimulatory and antibacterial activities of a chlorophycean macroalga in *Channa striatus* (Bloch)

2010 Second National Conference on Bioprospecting of Marine Resources with Special Reference to Marine Natural Products and Drug Discovery, School of Marine Sciences, Department of Oceanography and Coastal Area Studies, Alagappa University, Thondi Campus, Ramanathapuram on 25-27 August, 2010

36. A study on the disease protective properties of a Phaeophyceae macroalga CFI-MA 04 in *Cyprinus carpio*.

37. Immune enhancement by methanol extract of a marine macroalga (CFI-MA 01) in spotted murrel, *Channa punctatus*.

38. Bioactive Potential of marine macroalgae in terms of antibacterial and disease protective activities in fish

2010 National Conference on Environment, Climate change and Aquaculture, Andhra University, Vishakapatnam, Aug 2010

39. Plant - Derived Immunostimulants – A Viable Alternative To Fish Vaccines

2010 41st Annual Conference on Organismal and Functional Genomics.

School of Biological Sciences, Madurai Kamaraj University, Madurai on 6th March, 2010

40. Siderophores and Lipopolysaccharides of *Aeromonas hydrophila* as vaccine for *Oreochromis mossambicus*.

41. Rhythmicity in nonspecific immune mechanisms of *Channa striatus* (Bloch).

42. Evaluation of non-specific immune mechanisms in *Channa striatus* (Bloch) on experimental infection with live and killed *Aeromonas hydrophila*.

2006 National Seminar on Biomedicine in Aquaculture Centre for Marine Science and Technology, MS University, Kanyakumari district, Tamil Nadu on 17-18 March.

43. Immunostimulants of plant origin for finfish aquaculture.

2006 National conference on Aquatic Resources, Aquaculture and Aquashow, St. Xavier's College, Palayamkottai, Tamil Nadu, 15-17 February.

44. Aquatic Chicken for Indian Aquaculture?

2006 National Conference on Frontiers in Biotechnology and molecular medicine. Noorul Islam college of arts and science. Kumaracoil, Thuckalay, K.K. Dist, Tamil Nadu, on 17-18 February.

45. Antibody Engineering

2005 Indian Fisheries Forum Karnataka Veterinary, Animal & Fisheries Sciences University, Hebbal, Bangalore-24, on 8-12 November.

46. Plant-Derived Immunostimulants for Finfish Aquaculture.

2004 National seminar on Recent advances in Biology. Jamal Mohamed College, Trichy, on 24th August.

47. Hybridoma Technology

2004 National seminar on Recent advances in Biochemistry Ayyanadar Janaki Ammal College, Sivakasi on 20th August

48. Genetic basis of Immunoglobulin Structure and Diversity

2004 National seminar on Recent advances in Biology. Jamal Mohamed College Trichy on 5th June.

49. Genetically Engineered Vaccines

2001 National workshop on Aquaculture Medicine, Centre for Fish Disease Diagnosis and Management, Cochin University of Science and Technology, Cochin

50. Immunostimulation by leaf extract of *Crossandra infundibuliformis* in *Oreochromis mossambicus* (Peters).

51. Differential immunomodulatory effect of chemical and social stressors in *Oreochromis mossambicus* (Peters).

52. Immunostimulatory effect of *Ocimum sanctum* leaf extract administered by immersion in *Oreochromis mossambicus*

53. Scope for using medicinal plant extracts as immunostimulants in finfish aquaculture.

2000 National Seminar and Exhibition on "Sustainable fisheries and aquaculture for nutritional security" Chennai.

54. Medicinal plant leaf extracts as immunostimulants for health management in finfish aquaculture.

55. Immunomodulation by leaf extract of *Acalypha indica* Linn. in *Oreochromis mossambicus* (Peters).

56. Immunostimulation by *Ocimum sanctum* (Linn) leaf extract administered through different routes in *Oreochromis mossambicus* (Peters).
57. Comparative efficacy of crude extract and water soluble fraction of *Murraya koenigii* as immunostimulants in *Oreochromis mossambicus*.
58. Effect of crowding stress and sex ratio on host resistance in *Oreochromis mossambicus*.
59. Differential immunomodulation by chromium and selenium on the antibody response and the neutrophil activity of *Oreochromis mossambicus* (Peters).
60. Studies on the spleen and head kidney of an Indian major carp, *Labeo rohita*.
61. Comparative study of the immunostimulation by crude extract and water soluble fraction of *Piper betle* leaves in *Oreochromis mossambicus*.
62. Studies on temporal relationship between immunostimulant administration and vaccination in *Oreochromis mossambicus*.

1996 National Workshop on Fish and Shellfish Health Management, Central Institute of Freshwater Aquaculture, Bhubaneswar, Orissa

63. Immunostimulants- an alternative to vaccines in finfish health management.
64. Immunostimulatory effect of vitamin E in *Oreochromis mossambicus* (Peters)
65. Immunostimulation by leaf extracts a few South Indian medicinal plants in *Oreochromis mossambicus* (Peters)
66. Immunomodulatory effect of Selenium and Chromium on the antibody response in *Oreochromis mossambicus* (Peters)
67. Immunostimulation by leaf extract of *Ocimum sanctum* in *Oreochromis mossambicus* (Peters)
68. Azadirachtin- an immunostimulant for *Oreochromis mossambicus* (Peters)

1996. 4th Indian Fisheries Forum, Kochi, Kerala.

69. Immunological indicators of environmental stress – a field study in *Oreochromis mossambicus* (Peters)
70. Immunosuppressive effect of organic and inorganic forms of Nickel in *Oreochromis mossambicus* (Peters)
71. Immunosuppressive effect of the organic chloride pesticide, Endosulfan in *Oreochromis mossambicus* (Peters)
72. Immunomodulatory effect of Aluminum on the humoral immune response to bovine serum albumin in *Oreochromis mossambicus* (Peters)
73. Effect of the organophosphate pesticide Quinolphos (Ekalux) on the immune response in *Oreochromis mossambicus* (Peters)
74. Immunosuppression by the textile dye, Direct Blue 2B in *Oreochromis mossambicus* (Peters)
75. Immunomodulatory effect of vitamin A in the fish, *Oreochromis mossambicus* (Peters)
76. Immunostimulatory potential of levamisole with reference to antibody response in *Oreochromis mossambicus* (Peters)
77. Immunostimulatory effect of Azadirachtin in *Oreochromis mossambicus* (Peters)

1995 National Seminar on Aquatic Animal Health, University of Kerala, Trivandrum

78. Differential immunomodulatory effect of two different forms of Mercury in *Oreochromis mossambicus* (Peters)

79. Effect of Fenvalerate (Sumicidin) on the humoral immune response in *Oreochromis mossambicus* (Peters)

80. Stress-induced immunomodulation in *Oreochromis mossambicus* (Peters)

81. Effect of Chromium compounds on the cell-mediated immunity in *Oreochromis mossambicus* (Peters)

82. Immunomodulatory impact of Zinc in *Oreochromis mossambicus* (Peters)

83. The effect of Monocrotophos (Nuvacron) on the antibody response to bovine serum albumin in *Oreochromis mossambicus* (Peters)

84. Relative efficacy of immersion and hyperosmotic infiltration methods of immunization in fish

1995 National Research Seminar on Metal Toxicity, K.R. G. College, Gwalior, Uterpradesh.

85. Modulation of humoral immune response by tannery effluent in *Oreochromis mossambicus* (Peters)

86. Effect of Aluminum Sulfate on the humoral immune response to bovine serum albumin in *Oreochromis mossambicus* (Peters)

1993 The UGC National Seminar on Fish Health, Bharathiar University, Coimbatore, Tamilnadu.

87. Differential Effect of Chromium on the antibody response in *Oreochromis mossambicus* (Peters)

88. Effect of Nickel on the humoral immune response to a protein and a cellular antigen in *Oreochromis mossambicus* (Peters)

1990 2nd Indian Fisheries Forum, Mangalore, Karnataka

89. Effect of the steroid hormone, hydrocortisone on the antibody response in the teleost fish, *Oreochromis mossambicus* (Peters)

90. Effect of Carageenan on the antibody response to a protein and a cellular antigen in the fish *Oreochromis mossambicus* (Peters)

91. Role of helper cells in the antibody response to bovine serum albumin in the fish, *Oreochromis mossambicus* (Peters)

92. Studies on the circadian variations in antibody production in the fish, *Oreochromis mossambicus* (Peters)

93. Influence of dietary protein level on the antibody production in the fish, *Oreochromis mossambicus* (Peters)

94. Effect of the heavy metal, cadmium on the antibody production in the fish, *Oreochromis mossambicus* (Peters)

1988 National Seminar on Aquatic Environment and Organisms Chikkiah Naicker college, Erode, Tamilnadu.

95. Effect of the heavy metal, Chromium on the antibody response to a protein antigen in the fish, *Oreochromis mossambicus* (Peters)

96. Effect of Carageenan (Lambda) on the antibody response to a protein antigen in the fish, *Oreochromis mossambicus* (Peters)

97. Effect of Lambda Carageenan on the humoral immune response to sheep erythrocytes in the fish, *Oreochromis mossambicus* (Peters)

98. Immunotoxic effect of the heavy metal, Mercury on the Cichlid fish, *Oreochromis mossambicus* (Peters)