



National Bureau of Fish Genetic Resources
(Indian Council of Agricultural Research)
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Name Dr. T. Raja Swaminathan
Designation Scientist (SS)
Date of birth 25.06.1972
Professional experience 11 years
Qualification M.V.Sc.
Current area of Research Fish cell culture



Area of Research Expertise

- Bacteriology
- Fish disease diagnosis
- Development of Disease diagnostic kits
- Fish Cell culture
- Virology
- Molecular diagnostics
- Purification of fish immunoglobulins

Awards/ Recognitions Nil

Publication (no.)

- **Research papers** 20
- **Reviews** 1
- **Books** -
- **Book Chapters** 1
- **Popular articles** 3
- **Others** 10

Important Research Publications

Lakra W S., **Swaminathan T. R.**, Rathore G, Goswami M, Yadav K, Kapoor S. 2010. Development and characterization of three new diploid cell lines from *Labeo rohita* (Ham.). Biotechnology Progress DOI. 10.1002/btpr. 418.

Lakra W S., **Swaminathan T. R.**, Rathore G, Goswami M, Yadav K, Kapoor S. 2010. Development, characterization, conservation and storage of fish cell lines: a review. Fish Physiology and Biochemistry DOI 10.1007/s10695-010-9411-x.

Goswami M, Lakra W S, **Swaminathan T. R.**, and Rathore G. 2009. Development of cell culture system from the giant freshwater prawn *Macrobrachium rosenbergii* (de Man). Molecular Biology Reports DOI 10.1007/s11033-009-9659-3.

Swaminathan T. R., Sood N., Rathore, G., Abidi, R and Lakra, W. S. (2009). PCR cloning and

partial sequencing of *rtxA* gene of non- O1 / non - O139 *Vibrio cholerae* isolated from gold fish *Carassius auratus* in India. *Asian Fisheries Science*. **22(2)**: 707-712.

Kumar G., **Swaminathan T. R.**, Rathore G., Sood, N. and Kapoor, D.2008. Detection of *Edwardsiella tarda* from fish by specific amplification of a 450 bp fragment of 16s rRNA gene and its sequencing. *Indian Journal of Animal Sciences* Vol. **78 (4)**: pp 94-97.

Sood N., Rathore G., **Swaminathan T. R.**, Abidi R., Mishra B.N. and Lakra W S. 2007. Isolation and characterization of serum immunoglobulins of *Cyprinus carpio*. *Indian Journal of Animal Sciences* **77 (7)**: 642-645.

Swaminathan T. R., Rathore G., Sood N. and Lakra W.S. 2007. Bacterial diversity of snakehead in Uttarpradesh. *Indian Veterinary Journal* **84**: 686-687.

Swaminathan T. R., Rathore G., Sood N., Abidi R. and Lakra W S. 2007. *Vibrio cholerae* non - O1 and non-O139 serogroup isolated from ornamental fish in India *Indian Veterinary Journal* **84**: 1023-1025.

Swaminathan T. R., Rathore G., Abidi R. and Kapoor. D. 2004. Detection of *Aeromonas hydrophila* by Polymerase Chain Reaction. *Indian Journal of Fisheries*. **51 (2)**: 251-254.

Swaminathan T. R., N Daniel Joy Chandran and S Elankumaran. 2002. Virulence attributes of *Escherichia coli* associated with colisepticaemic chickens *Indian Journal of Animal sciences*. **74 (3)**: 248-252.

Swaminathan T. R., 2001 Salmonellosis of broilers in Tamil Nadu. *Indian Journal of Animal sciences*. **71 (11)**: 1036-1037.

Rathore G., Sood N. and **Swaminathan T. R.** 2001 Primary Cell Culture from fish gills and kidney using fish serum. *Indian Journal of Experimental Biology*. **39**: 936-938.

Prabhakar T.G. Dorairajan N, Sivakumar S, **Swaminathan T. R.**, Mukhopadhyay H K, Aruni W and Paul M. Gangrenous dermatitis of fowls. *Indian j. Ani. Sci.* **68 (1)**: 4-6. 1998.

Prabhakar T. G., Dorairajan N, **Swaminathan T. R.**, Mukhopadhyay H. K., and Paul M. Concurrent infection of *Corynebacterium bovis* and *Actinomyces pyogenes* from clinical cases of mastitis in dairy cows. A Report. *Indian vet. J.* May 1998. **75**:466-468.

Prabakar, T., Dorairajan G. N., **Swaminathan T. R.**, and Sivakumar S. Antibiotic sensitivity pattern of *Haemophilus* species from infectious coryza in Namakkal. *Ind. Journal of Animal Sciences*. sep. 1998 **68(2)**: 888-889.