National Bureau of Fish Genetic Resources

(Indian Council of Agricultural Research)

Canal Ring Road, Dilkusha PO, Lucknow-226002, India

Name	**Dr. Gaurav Rathore**
Designation	Senior Scientist
Date of Birth	23-06-1969
Professional experience	13 years
Academic Qualifications	B. V. Sc. & A.H., M.V. Sc, Ph. D
Current Area of Research	Fish Disease diagnosis

Area of Research Expertise

- Isolation and characterization of environmental and pathogenic bacteria from fish and aquatic environment.
- Molecular identification of bacterial pathogens by PCR and diversity analysis.
- Development of monoclonal antibodies to fish pathogens and immunoassays.

Awards / Recognitions

Dr. Siddique Award - By Indian Veterinary Journal, 1998

Best Young Scientist Award of NBFGR for the year 2008-09

Publications

- Forty eight
- Research Papers – 35, (International Journals-10; Indian Journals-25)
- Other Publications: 13
- Books Co-Authored: -2;
- Book chapters/Manuals/Bulletins/Technical articles: -11

Important Research Publications

Rathore G, Sood N and Swaminathan T R (2001). Primary Cell Culture from fish gills and kidney using fish serum. Indian J Exp Biol, Vol.**39**, pp 936-938.

Rathore G, Swaminathan T R, Abidi R, Mahanta P C and Kapoor D (2005). Isolation of motile aeromonads from aquatic environment. Indian J Fish, Vol. **52**, pp 241-248.

Rathore G, Swaminathan T R, Sood N, Mishra B N and Kapoor D (2006). Affinity purification and partial characterization of serum immunoglobulin of *Clarias gariepinus*. Indian J Exp Biol, Vol. **44:** pp 1018-21.

Rathore G, Kumar G, Swaminathan T R, Sood N, Singh V, Abidi R and Lakra W S (2007). Primary cell culture from fin explants of *Labeo rohita* (Ham.). Indian J Rathore G, Sengupta U, Singh V, Kapoor D and Lakra W S (2007). Isolation and characterization of outer membrane proteins of *Edwardsiella tarda* and its application in immunoassays. Aquaculture **272**: 98–104.

Rathore G, Kumar G, Sood N, Kapoor D and Lakra W S (2008). Development of monoclonal antibodies to rohu [*Labeo rohita*] immunoglobulins for use in immunoassays. Fish & Shellfish Immunology, **25**: 761-774

Singh V, **Rathore G**, Kapoor D, Mishra B N and Lakra W S (2008). Detection of Aerolysin gene in *Aeromonas hydrophila* isolated from fish and pond water. Indian J. Microbiol. **48**:468–473.

Singh V, Somvanshi P, **Rathore G**, Kapoor D, and Mishra B N (2009). Gene cloning, expression and homology modelling of hemolysin gene from *Aeromonas hydrophila*. Protein Express Purification., **65**: 1–7.

Rathore G, Kumar G, Swain P and Lakra W S (2009). Development of new PCR primers for detection of Koi herpes virus. Indian J Comp Microbiol Immunol Infect Dis. **30**: 52-53.

Kumar G, **Rathore G**, Sengupta U, Kapoor D and Lakra W S (2010). Production of monoclonal antibodies specific to major outer membrane protein of *Edwardsiella tarda*. Comp Immunol Microbiol Infect Dis, **33**: 133-144.

Kumar G, Sharma P, **Rathore G**, Bisht D and Sengupta U (2010). Proteomic analysis of outer membrane proteins of *Edwardsiella tarda*. J Appl Microbiol., **108**: 2214-2221.

Singh V, Somvanshi P, **Rathore G**, Kapoor D, and Mishra B N (2010). Gene Cloning, Expression, and Characterization of Recombinant Aerolysin from *Aeromonas hydrophila*. Appl Biochem Biotechnol., 160:1985–1991. Fish, Vol. **54(1):** 93-97.

Kumar G, Singh V, Chaudhary D K, Mani I, Somvanshi P, **Rathore G** and Sood N (2010). Genotyping of *Aeromonas hydrophila* by Box Elements. Microbiology, Vol. **79 (3)**: 370–373.

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

Kumari V, **Rathore G,** Chauhan U K, Pandey A K and Lakra W S (2010). Seasonal variations in abundance of nitrifying bacteria and nitrification in fishpond ecosystem under agro climatic conditions of Uttar Pradesh. J Environ Biol., Vol. 32 (2/3). In press.