




# National Bureau of Fish Genetic Resources

(Indian Council of Agricultural Research)

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



<b>Name</b>	<b>Dr. Neeraj Sood</b>	
<b>Designation</b>	Principal Scientist	
<b>Date of birth</b>	August 11, 1968	
<b>Professional experience</b>	17 years	
<b>Qualification</b>	M.V.Sc. (Veterinary Pathology), Ph.D.	
<b>Current area of Research</b>	Fish disease diagnosis, Fish immunology	
<b>Area of Research Expertise</b>	<ul style="list-style-type: none"> <li>• Production and characterization of monoclonal antibodies</li> <li>• Detection of fish pathogens using molecular techniques</li> </ul>	
<b>Awards/ Recognitions</b>	<b>'M.S. Swaminathan Award for the Best Indian Fisheries Scientist'</b> for the year 2013	
<b>Publication (no.)</b>		
• <b>Research papers</b>	43	
• <b>Reviews</b>	-	
• <b>Books</b>	4	
• <b>Book Chapters</b>	7	
• <b>Popular articles</b>	4	
• <b>Others</b>	-	
<b>Important Research Publications</b>		
<p>Verma, D. K., G. Rathore, P. K. Pradhan, <b>N. Sood</b> and P. Punia, 2014. Isolation and characterization of <i>Flavobacterium columnare</i> from freshwater ornamental gold fish <i>Carassius auratus</i> (L.). <i>Journal of Environmental Biology</i>, (In press).</p> <p>Pradhan, P. K., G. Rathore, <b>N. Sood</b>, T. R. Swaminathan, M. Yadav, D. Verma, D. K. Chaudhary, R. Abidi, P. Punia and J. K. Jena, 2014. Emergence of epizootic ulcerative syndrome: Large-scale mortalities of cultured and wild fish species in Uttar Pradesh. India. <i>Current Science</i>, (In press).</p> <p>Awasthi, A., G. Rathore, <b>N. Sood</b>, M. Y. Khan, and W. S. Lakra, 2014. Establishment of a leukocyte cell line derived 3 from peritoneal macrophages of fish, <i>Labeo rohita</i> (Hamilton, 1822). <i>Cytotechnology</i>, DOI 10.1007/s10616-013-9660-5</p> <p>Pradhan, P. K., J. K. Jena, G. Mitra, <b>N. Sood</b> and E. Gisbert, 2014. Effects of different weaning strategies on survival, growth and digestive system development in butter</p>		

catfish *Ompok bimaculatus* (Bloch) larvae. *Aquaculture* 424–425:120–130.

Chaudhary D. K., **N. Sood**, G. Rathore, , P. K. Pradhan, P. Punia, N. K. Agarwal and J. K. Jena, 2014. Establishment and characterization of macrophage cell line from thymus of *Catla catla* (Hamilton, 1822). *Aquaculture Research*, 45(2): 299-311.

Rebello, S. C., G. Rathore, P. Punia, **N. Sood** and V. Elangovan, 2014. Development and characterization of a continuous macrophage cell line, LRTM, derived from thymus of *Labeo rohita* (Hamilton 1822). *In Vitro Cellular and Developmental Biology- Animal*, 50(1): 22-38.

**Sood, N.**, D. K. Chaudhary, G. Rathore, P. K. Pradhan, P. Punia, and J. K. Jena, 2013. Monoclonal antibodies recognizing serum immunoglobulins and surface immunoglobulin-positive cells of *Catla catla* (Hamilton, 1822). *Fish and Shellfish Immunology*, 34: 1738-1739

Singh, A., A. S. Barman, **N. Sood**, and V. Mohindra, 2013. Transcriptome generation and analysis from spleen of Indian catfish, *Clarias batrachus* (Linnaeus, 1758) through normalized cDNA library. *Molecular Biology Reports*, 40(12):6965-75

Yadav, S., D. K. Verma, , P. K. Pradhan, A. K. Dobriyal and **N. Sood**, 2013. Phenotypic and genotypic identification of *Aeromonas* species from aquatic environment. *International Journal of Aquatic Sciences*, 5(1): 3-20.

Srivastava, P. P., V. Kumar, S. Chowdhary, S. Raizada, J. K. Jena, **N. Sood**, A. K. Singh and M. Singh, 2013. Comparative study of serum protein of pre-ovulatory, ovulatory, post-ovulatory and resorption stage females of rohu, (Ham.) *Labeo rohita*. *Asian Journal of Experimental Biological Sciences*, 4(3): 480-483.

Pradhan, P. K., J. K. Jena, G. Mitra, **N. Sood** and E. Gisbert, 2013. Ontogeny of the digestive enzymes in butter catfish *Ompok bimaculatus* (Bloch) larvae. *Aquaculture* 372-375: 62–69

**Sood, N.**, D. K. Chaudhary, A. Singh, and G. Rathore, 2012. Monoclonal antibody to serum immunoglobulins of *Clarias batrachus* and its application in immunoassays. *Gene*, 511(2): 411-419.

Chaudhary, D. K., **N. Sood**, T. R. Swaminathan, G. Rathore, P. K. Pradhan, N. K. Agarwal, and J. K. Jena, 2012. Establishment and characterization of an epithelial cell line from thymus of *Catla catla* (Hamilton, 1822). *Gene* 512: 546-553.

Chaudhary D. K., **N. Sood**, P. K. Pradhan, A. Singh, P. Punia, N. K. Agarwal and G. Rathore, 2012. Establishment of a macrophage cell line from adherent peripheral blood mononuclear cells of *Catla catla*. *In Vitro Cellular and Developmental Biology-Animal*, 48: 340–348.

Pradhan, P. K., J. K. Jena, G. Mitra, **N. Sood** and E. Gisbert, 2012. Ontogeny of the digestive tract in butter catfish *Ompok bimaculatus* (Bloch) larvae. *Fish Physiology and Biochemistry*,. 38: 1601-1617.

Singh, A., **N. Sood**, U. K. Chauhan and V. Mohindra, 2012. EST-based identification of immune-relevant genes from spleen of Indian catfish, *Clarias batrachus* (Linnaeus, 1758). *Gene* 502: 53–59.

Mohindra, V., A. Singh, A. S. Barman, R. Tripathi, **N. Sood**, and K. K. Lal, 2012. Development of EST derived SSRs and SNPs as a genomic resource in Indian

catfish, *Clarias batrachus*. *Molecular Biology Reports*, 39: 5921-5931.

Chaudhary, D. K., **N. Sood**, P. K. Pradhan, N. K. Agarwal and G. Rathore, 2012. Production and characterization of a monoclonal antibody against putative T lymphocytes of *Catla catla*. *In Vitro Cellular and Developmental Biology- Animal*, 48: 483-492.

**Sood, N.**, D. K. Chaudhary, G. Rathore, A. Singh and W. S. Lakra, 2011. Detection and quantification of immunoglobulin bearing cells of *Channa striata* in blood and lymphoid organs using monoclonal antibodies. *Fish and Shellfish Immunology*, 30: 569-575.

**Sood, N.**, D. K. Chaudhary, A. Singh, T. R. Swaminathan, V. S. Basheer, P. K. Pradhan and G. Rathore, 2010. Detection of Monodon baculovirus (MBV) in cultured shrimp by nested Polymerase chain reaction. *Indian Veterinary Journal*, 87: 1161-1162.