



National Bureau of Fish Genetic Resources (Indian Council of Agricultural Research)



Name	Dr. Arun Sudhagar, S.	
Designation	Scientist (Fish Health)	
Date of birth	28.10.1987	
Professional experience	7 years	
Qualification	M.F.Sc & Ph.D.,	
Current area of research	Fish immune responses and host-pathogen interaction	
Area of research expertise	<ul style="list-style-type: none">• Transcriptomics• RNA-seq• Flow cytometry• Immuno-histochemistry• Purification of immoglobulins• Myxozoan parasites• Inland saline shrimp aquaculture• R Programming, CLC genomic workbench, and LINUX based command line operations for RNA-seq data analysis	
Awards / Recognitions	<ul style="list-style-type: none">• Received travel grant from the Clinical Division of Fish Medicine, University of Veterinary Medicine, Vienna, Austria for oral presentation at the 19th International Conference on Diseases of Fish and Shellfish held at Porto, Portugal (2019).• Received Central European Exchange Program for University Studies (CEEPUS) - students exchange scholarship (2019) to attend the summer school in aquaculture organized by Veterinary Faculty, University of Sarajevo, Bosnia & Herzegovina.• Recipient of Netaji Subhas - ICAR International Fellowship (2016) for pursuing PhD at Clinical Division of Fish Medicine, University of Veterinary Medicine, Vienna, Austria.• Received letter of appreciation from the Hon. Chief Minister of Punjab Sh. Parkash Singh Badal for the research, demonstration and extension activities carried out on the "Technology for the commercial marine shrimp culture in inland saline waters" at Ratta Khera, Muktsar Sahib District, Punjab (2016).• Recipient of Dr. H.P.C Shetty Gold Medal (2009) as the best fisheries graduate of India awarded by Professional Fisheries Graduates Forum (PFGF).• Recipient of ICAR Fellowship for pursuing M.F.Sc. (2009) at ICAR-Central Institute of Fisheries Education (CIFE), Mumbai.	

- Professional affiliations**
- European association of fish pathologist (EAFP).
 - Indian fisheries association (IFA), India.
 - Professional fisheries graduates' forum (PFGF), India.

Publication (nos.)

Research papers: 10
Reviews: 4
Books: 0
Book Chapters: 0
Popular articles: 7
Others: 11 (Extension leaflets)

Selected publications

- **Sudhagar A**, El-Matbouli M and Kumar G. Identification and expression profiling of Toll-like receptors of brown trout (*Salmo trutta*) during proliferative kidney disease. *International Journal of Molecular Sciences*, **2020**; 21(11):3755.
- **Sudhagar A**, Kumar G and El-Matbouli M. The malacosporan myxozoan parasite *Tetracapsuloides bryosalmonae*: A threat to wild salmonids. *Pathogens*. **2020**; 9(1):16.
- Antony J, Reddy, AK, **Sudhagar A**, Vungurala H, Roy LA. Effects of salinity on growth characteristics and osmoregulation of juvenile cobia, *Rachycentron canadum* (Linnaeus 1766), reared in potassium-amended inland saline groundwater. *Journal of World Aquaculture Society*. **2020**; 1- 16.
- **Sudhagar A**, Ertl R, Kumar G and El-Matbouli M. Transcriptome profiling of posterior kidney of brown trout, *Salmo trutta*, during proliferative kidney disease. *Parasites & Vectors*, **2019**; 12(1):569.
- Saleh M, Montero R, Kumar G, **Sudhagar A**, Friedl A, Köllner B and El-Matbouli M. Kinetics of local and systemic immune cell responses in whirling disease infection and resistance in rainbow trout. *Parasites & Vectors*. **2019**; 12(1):249.
- **Sudhagar A**, Kumar G and Mansour El-Matbouli. Transcriptome analysis based on RNA-seq in understanding pathogenic mechanisms of diseases and the immune system of fish: A comprehensive review. *International Journal of Molecular Sciences*, **2018**; 19(1):245.
- **Sudhagar AS**, Prasad KP, Makesh M, Bhuvaneswari RG and Jeena K. Characterization and production of polyclonal antisera against pangasius (*Pangasianodon hypophthalmus*) serum immunoglobulin IgM derived from DEAE cellulose based ion exchange chromatography. *Aquaculture Research*, **2015**; 46: 1417-1425.
- Keezhedath J, Kurcheti PP, Pathan MK, Babu GP, Tripathi G, **Sudhagar A** and Rao SP. Expression profile of *Penaeus monodon* ubiquitin conjugating enzyme (PMUBC) at protein level in WSSV challenged shrimp. *Indian Journal of Virology*, **2013**; 24(1): 48-53.