


Scientist Profile

Name	Amit Pande	
Designation	Principal Scientist (Biotechnology A.S.)	
Qualification	M.Sc. (Biotech., IVRI) PhD (Mol. Biol., Univ. of Reading).	
Email Address	amit.pande@icar.gov.in	
Professional experience (Years)	28	
Area of Research Expertise	Molecular Virology, Development of Fish Cell Lines	
ORCID ID	https://orcid.org/0000-0001-6794-2471	
Awards/ Recognitions	<ol style="list-style-type: none">1. ICAR-National Fellow (2014-19)2. Letter of Appreciation dated 11th April 2013, from the Government of Sikkim for creating awareness and importance of fish health among trout farmers and fisheries officials in the state. Conducted first training programme on “Surveillance of diseases in Coldwater Aquaculture”.3. Third Prize under Best Poster Presentation category. Belwal, K. and Pande A. (2012) Characterization and expression analysis of Toll like Receptors 3 (TLR-3) and its role in recognizing viral PAMPs in Barilius bendelisis. Poster presented at VIROCON, XXI National Conference on “Immuno-biology and Management of Viral Diseases in 21st Century held at Indian Veterinary Research Institute, Mukteshwar from 8th-10th Nov 2012.4. Award for the contribution made in the UK FMDV epidemic of 2001, by Director Institute for Animal Health, Compton, Newbury, Berkshire, RG 20 7NN, UK.5. Recipient of the Commonwealth Scholarship in the year 2000, to pursue PhD program in Molecular Biology at the Institute for Animal Health, Compton, Newbury, Berkshire, RG20 7NN, UK as an external PhD scholar at the University of Reading, Whiteknights, RG6 6AF, UK.6. Dr S. Vancheeswara Iyer, memorial Medal for the best article in Indian Veterinary Journal in 1997.7. Recipient of Senior Research Fellowship of the Indian Council for Agriculture Research in the year 1995.8. Department of Biotechnology-Indian Veterinary Research Institute Junior Research Fellowship during the Master’s program.	

Publication (no.)

• Research papers	24
• Reviews	1



ICAR- DIRECTORATE OF COLDWATER FISHERIES RESEARCH

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- Books -
- Book Chapters 7
- Popular articles -
- Others -

Projects (Institutional/ External)

1. Fish without water: In vitro meat- (Institute Funded)
2. Bio-engineered synthetic anti-microbial peptides as an alternative to antibiotics for use in aquaculture (DBT Funded)
3. Development of cell lines from different organs of Rainbow trout 2019-21 (Institute Funded)
4. Development of a method for detecting the presence of any virus signal in clinical samples of fish (ICAR-National Fellowship) 20.12.2014 -19.12.2019.
5. National Surveillance Programme on Aquatic Animal Health (NFDB/ GOI/ ICAR) 2013-2015
6. Molecular characterization and development of a diagnostic test for the identification of a filterable agent isolated from diseased rainbow trout (DBT) 2010-2013
7. Study of Viral Diseases of Trout in India (Institute Funded) 2011-2014
8. Investigations on Coldwater fish pathogens and their environment (Institute Funded) 2007-2011
9. XI Plan Scheme "Intellectual Property Management and Transfer/Commercialization of Agricultural technology Scheme (Up Scaling of existing component i.e.; Intellectual property right (IPR) under ICAR headquarter Scheme on management on information services)" (ICAR)
10. Seasonal Incidences of Parasitic, Fungal and non-infectious Diseases in Coldwater Fishes and evaluation of Herbal Extracts for their Control (Institute Fund) 2011-2013
11. Evaluation of growth performance in different strains of Common carp (Institute Fund) 2011-2013
12. Development of baculovirus expressed Classical swine fever (CSFV) E2 glycoprotein for the diagnosis of Classical swine fever (Institute Fund) 2005-2007
13. Interactions of envelope glycoproteins of Bovine viral diarrhoea virus with cells and the effect on innate and adaptive immune responses. (Commonwealth Scholarship Commission, UK) 2001-2004.

Important 10 Publications (recent)

1. Thakuria, D., Khangembam, V.C., Pant, V., Bhat, R.A.H., Tandel, R.S., Siva, C., Pande, A. and Pandey, P.K., 2022. Anti-oomycete Activity of Chlorhexidine Gluconate: Molecular Docking and in vitro Studies. *Frontiers in Veterinary Science*, 9.
2. Sonti, S., Tyagi, K., Pande, A., Daniel, R., Sharma, A.L. and Tyagi, M., 2022. Crossroads of Drug Abuse and HIV Infection: Neurotoxicity and CNS Reservoir. *Vaccines*, 10(2), p.202.

3. Durge, S.M., Das, A., Saha, S.K., Pande, A., Thakuria, D., Saxena, A., Bhardvaj, Y. and Verma, A.K., 2022. Dietary lutein supplementation improves immunity and antioxidant status of captive Indian leopards (*Panthera fusca*). *Zoo Biology*.
4. Kumari, A., Tripathi, A.H., Gautam, P., Gahtori, R., Pande, A., Singh, Y., Madan, T. and Upadhyay, S.K. (2021). Adhesins in the virulence of opportunistic fungal pathogens of human. *Mycology*, pp.1-29. (Impact factor:)
5. Chaturvedi, P, Bhat, R. A.H. and Pande A. (2018) Antimicrobial peptides of fish: innocuous alternatives to antibiotics. *Reviews in Aquaculture* 1-22. doi: 10.1111/raq.12306 (Impact factor: 7. 139)
6. Saxena, A., Belwal, K., Chauhan, A. and Pande, A. (2018) Interferon induced Mx protein from Indian snow trout *Schizothorax richardsonii* (Gray) lacks critical functional features unlike its mammalian homologues. *Journal of Computational Biology and Chemistry* 73:31-40 (Impact factor: 1.412)
7. Belwal, K. and Pande, A. (2017) In Silico Analysis of Toll-Like Receptor 3 from an Indian Coldwater Fish, *Schizothorax richardsonii* (Gray) *Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases* 38:2 98-107.
8. Chaturvedi P, Dhanik, M and Pande A (2016) Identification and In-Silico Analysis of Hepcidin from *Tor Putitora* (Hamilton) *Indian Journal of Comparative Microbiology, Immunology and Infectious Diseases*. DOI : 10.5958/0974-0147.2016.00013.1
9. Belwal, K. Thakuria, D., Dighe, V., Pande V. and Pande, A. (2016) Molecular cloning and expression profile of toll like receptor -3 from an Indian coldwater fish, *Schizothorax richardsonii* (Gray) *Animal Biotechnology*. DOI :10.1080/10495398.2016.1217874 (Impact factor: 0.928)
10. Chaturvedi, P., Dhanik, M. and Pande, A. (2015) Molecular Characterization and In Silico Analysis of Defensin from *Tor putitora* (Hamilton) *Probiotics & Antimicro. Prot.* 7: 207. doi:10.1007/s12602-015-9197-3. (Impact factor: 2.345)

Other information's

Life Member

- Indian Virology Society
- Society of Biological Chemists, India
- Inland Fisheries Society of India
- Coldwater Fisheries Society of India
- Central Himalayan Environment Association