


### Scientist Profile

Name	Khangembam Victoria Chanu	
Designation	Senior scientist	
Qualification	Ph.D	
Email Address	Victoria.Chanu@icar.gov.in	
Professional experience (Years)	10 years	
Area of Research Expertise	Synthetic biology	
Google scholar link	<a href="https://scholar.google.com/citations?user=RrL99YUAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=RrL99YUAAAAJ&amp;hl=en</a>	
ORCID ID	0000-0003-1153-4182	
Awards/ Recognitions	1. Neomec Project Shikhsha Scholarship by INTAS to top students of Veterinary Science 2. Topper in B.V.Sc & A.H., College of Vety. Science and Animal Husbandry, Selesih, Mizoram, Central Agricultural University 3. Junior Research Fellowship (2006) by ICAR, New Delhi for pursuing M.V.Sc (Animal Biochemistry) at IVRI, Izatnagar 4. CSIR NET and JRF (2008) for pursuing Ph. D 5. ICMR-JRF (2008) for pursuing Ph.D 6. ICAR-NET and ARS (2009) 7. First prize in Oral category in ICSTE-2020 8. Best paper award in EARD-2020 by IRDCP	
Publication (no.)	31	
• Research papers		
• Reviews	03	
Book Chapters	03	
Popular articles	25	
Bulletin	01	
NCBI GenBank	50+	
Projects (Institutional/ External)	<u>External:</u> 1. Synthetic peptide based diagnostic for highly pathogenic avian influenza (DBT funded) 2. Bio-engineered synthetic antimicrobial peptides as alternative to antibiotics for use in aquaculture (DBT funded) <u>Institutional:</u> 1. Development of rapid assays for detection and identification of <i>Saprolegnia</i> species 2. Polymer based approach for in vitro transfection in fish cells 3. Development of fish viral peptide based nano-system for intracellular delivery of biomolecules 4. Fish without water: In vitro meat	

**Important 10  
Publications  
(recent)**

5. Design and production of GnRH analog as an inducing agent for spawning in fish

1. **Khangembam Victoria Chanu**, Dimpal Thakuria, Vinita Pant, Sweta Bisht, Ritesh Shantilal Tandel (2022). Development of multiplex PCR assay for species-specific detection and identification of *Saprolegnia parasitica*, Biotechnology Reports, 35: e00758,

2. Bhat, R. A. H., Thakuria, D., Tandel, R. S., **Khangembam, V. C.**, Dash, P., Tripathi, G., & Sarma, D. (2022). Tools and techniques for rational designing of antimicrobial peptides for aquaculture. Fish & Shellfish Immunology. 127: 1033-1050.

3. Dimpal Thakuria, **Victoria C. Khangembam**, Vinita Pant, Raja Aadil Hussain Bhat, Ritesh Shantilal Tandel, Amit Pande and Pramod Kumar Pandey. (2022). Anti-oomycete activity of Chlorhexidine gluconate: Molecular docking and in vitro studies. Front. Vet. Sci. 9:909570. doi: 10.3389/fvets.2022.909570

4. Raja Aadil Hussain Bhat, **Victoria C. Khangembam**, Dimpal Thakuria, Vinita Pant, Ritesh Shantilal Tandel, Gayatri Tripathi, Debajit Sarma (2022). Antimicrobial activity of an artificially designed peptide against fish pathogens. Microbiological Research. 260: 127039

5. **Khangembam Victoria Chanu**, Leishangthem Geeta Devi, Sandeep Kumar Srivastava, Meena Kataria, Dimpal Thakuria & Satish Kumar (2021). Methanolic extract of *Phlogacanthus thyrsoiflorus* Nees leaf induces apoptosis in cancer cells. Indian Journal of Experimental Biology. 59: 153-161.

6. Tandel, R. S., **Chanu, K. V.**, Hussain Bhat, R. A., Dash, P., Shah, T. K., & Thakuria, D. (2021). Morphometric and molecular identification of *Argulus japonicus* (Thiele, 1900) in vulnerable Himalayan snow trout, *Schizothorax richardsonii* (Gray 1832). Aquaculture Research, 52: 5943-6824.

7. Raja Aadil Hussain Bhat, Dimpal Thakuria, Maneesh Kumar Dubey, Ritesh Shantilal Tandel, Prakash Sharma, **Victoria C. Khangembam**, Pragyan Dash, Gayatri Tripathi, Debajit Sarma (2021). Lethal dose and histopathological alterations induced by *Aeromonas salmonicida* in experimentally challenged common carp, *Cyprinus carpio*, Microbial Pathogenesis, 158: 105110.

8. Raja Aadil Hussain Bhat, Dimpal Thakuria, Vinita Pant, **Victoria C. Khangembam**, Ritesh Shantilal Tandel, Neetu Shahi,



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Debajit Sarma, Gayatri Tripathi, Kishore Kumar Krishnani, Gopal Krishna (2020). Antibacterial and antioomycete activities of a novel designed RY12WY peptide against fish pathogens. Microbial Pathogenesis 149:104591

9. **Victoria C. Khangembam**, S. K. Srivastava, Geeta D. Leishangthem, Meena Kataria and D. Thakuria. (2018). Evaluation of Apoptosis Inducing Ability of Parkia Javanica Seed Extract in Cancer Cells. Indian Journal of Pharmaceutical Science. 80(6):1069-1077

10. Sood, R., Kumar, N., Bhatia, S., **Chanu, K.V.**, Gupta, C.L., Pateriya, A.K., Mishra, A., Khandia, R., Mawale, N., Singh, V.P. (2018). Neuraminidase inhibitors susceptibility profiles of highly pathogenic influenza A (H5N1) viruses isolated from avian species in India (2006–2015), Antiviral Research. 158:143-146.

**Other information's**