

ICAR- DIRECTORATE OF COLDWATER FISHERIES RESEARCH

Bhimtal- 263136, Distt. Nainital, Uttarakhand, India Phone: 05942-247280, Fax: 05942-247693



Scientist Profile

Name Dimpal Thakuria

Designation Senior Scientist (Biochemistry-AS)

Qualification Ph.D

Email Address Dimpal. Thakuria@icar.gov.in

Professional experience (Years)

12+ years

Area of Research

Expertise

Google scholar

link

ORCID ID 0000-0002-4434-0483

Synthetic biology

Awards/ Recognitions

1. Junior Research Fellowship (2006) by ICAR, New Delhi for pursuing M.V.Sc (Animal Biotechnology) at ICAR-IVRI, Izatnagar

https://scholar.google.com/citations?user=fBvR2dkAAAAJ&hl=en

- 2. ICAR-NET and ARS (2009)
- 3. Gold Medal Award by Zoological Society of India during National Seminar on "Strategies, Innovations and Sustainable Management for Enhancing Coldwater Fisheries and Aquaculture, held at ICAR-DCFR from 22-24 Sept. 2017
- 4. Best paper awarded during 11th Indian Fisheries and Aquaculture Forum Fostering organized by ICAR-CIFT, Kochi from 21-24 Nov. 2017
- 5. First Prize in poster presentation in international econference on "New generation vaccines and animal disease control strategies: roadmap for enhancement of animal and human health" organized by Department of Veterinary Microbiology, Veterinary college and research institute, Orathanadu, Tamil Nadu and Department of Veterinary Microbiology, C.V.Sc.& A.H. Pookode, Kerala, during 02-04 December 2020.

Publication (no.)

Research

papers

Reviews 02

29

Book Chapters 02

NCBI 50+

GenBank



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Projects (Institutional/ External)

External:

- 1. Bio-engineered synthetic antimicrobial peptides as alternative to antibiotics for use in aquaculture (DBT funded) Institutional:
- 1. Development of rapid assays for detection and identification of *Saprolegnia* 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. Design and production of GnRH analog as an inducing agent for spawning in fish
- 5. Evaluation of antimicrobial activities of nano and polymer-based formulations against Saprolegniasis

Important 10 Publications (recent)

- 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 Panr, Ritesh Shantilal Tandel, Gayatri Tripathi, Debajit Sarma (2022). Antimicrobial activity of an artificially designed peptide against fish pathogens. Microbiological Research. 260: 127039
- 5. RiteshShantilalTandel, Pragyan Dash, Raja AadilHussainBhat, **DimpalThakuria**, Paramita Banerjee Sawant, NityanandPandey, Suresh Chandra, Narinder Kumar Chadha (2021) Anti-oomycetes and immunostimulatory activity of natural plant extract compounds against Saprolegnia spp.: Molecular docking and in-vitro studies,Fish & Shellfish Immunology, 114: 65-81
- 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).



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Aquaculture Research, 52: 5943-6824.

- 7. Raja Aadil Hussain Bhat, **DimpalThakuria**, 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, 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. BS Yashwanth, MukundaGoswami, RajendranKoolothValappil, **DimpalThakuria**, AparnaChaudhari Characterization of a new cell line from ornamental fish Amphiprionocellaris (Cuvier, 1830) and its susceptibility to nervous necrosis virus. Sci Rep 10, 20051 (2020).
- 10. **Thakuria D**, Shahi N, Singh AK, Khangembam VC, Singh AK, Kumar S. (2017). Conformational analysis of a synthetic fish kisspeptin 1 peptide in membrane mimicking environments. PLoS One. 12(10): e0185892.

Other information's