

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



Scientist Profile

Name Dr SURESH CHANDRA

Designation Principal Scientist (Fish Pathology)

Qualification M.Sc, Ph.D

Email Address suresh.chandra@icar.gov.in

schandradefr@gmail.com

Professional experience (Years)

Thirty five years

Area of Research Expertise Diagnosis and control of important freshwater fish diseases

Organic manure and biofertiliser based carp culture, intensive and

integrated fish farming

Freshwater and coldwater aquaculture development and extension in rural areas of Uttarakhand, Odisha, Uttar Pradesh, Punjab and

Haryana states of the country

Google scholar link https://scholar.google.com/citations?user=X2YKybkAAAAJ&hl=en

ORCID ID https://orcid.org/0000-0003-3870-7610

Awards/ Recognitions As a team member in the development of an effective medicine against

the Epizootic Ulcerative Syndrome (EUS) named CIFAX

commercialized four times, with a total gross license fee of Rs 291

lakhs.

Best Extension Worker-2008 of the Central Institute of Freshwater

Aquaculture (CIIFA), Bhubaneswar, Odisha.

Bioved Society, Allahabad Young Scientist Award-2000 for Aquaculture

Research and Development

Letter of Appreciation for Outstanding Contribution in Extension in the

Fifth Indian Fisheries Forum, held at CIFA in Bhunabeswar, Odisha.

As a team member, received Krushakbandhu Team Award-2011 (Bharat

Krashak Samaj) for the NAIP-SRL sponsored project on sustainable

livelihood improvement in three districts of Odisha.

Bioved **Distinguished Service Award** in 2006 for outstanding contribution

to aquaculture at BHU, Varanasi

As a team member, received the Best Division Award-2006 of CIFA,



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Bhubaneswar.

Letter of Appreciation as a team member for exemplary work carried out in the breeding of yellow catfish, *Horabagrus brachysoma* and spiny eel, *Mastacemblus aculeatus* from DDG (FY) in the year 2006.

Letter of Appreciation as a team member for **exemplary work** carried out in **breeding and larval rearing of** *Pangasius pangasius* from DDG (FY), New Delhi in year 2007

Publication (no.)
Research papers 48
Reviews 01
Books 12
Book Chapters 08
Popular articles 56
Others 400
Projects Pro

(Institutional/ External) 40(Manual articles)

Project completed/ongoing as PI/Co-PI/Associate

- Fish Diseases and Their Control, CIFA, Bhubaneswar, CIFA ICAR, April 1989, Dec 1999
- Development of Intensive Aquaculture Systems for Carps, CIFA, Bhubaneswar, Odisha. DBT, April 1990-December 1995
- ORP on Organic Waste Processing and Utilization in Aquaculture, CIFA Centre, Allahabad, U.P. CIFA ICAR, December 1995-May 2002
- Evaluation and Adoption of Freshwater Aquaculture Technologies in North-Western India for Optimizing Productivity CIFA, Regional Centre, Ludhiana, Punjab. CIFA ICAR, June 2002-May 2004
- Breeding and Culture of *Pangasius pangasius*, CIFA, Bhubaneswar.Odisha . June 2004 March 2007
- Mass Seed Production and Grow out Culture of Diversified Catfishes Pangas (*Pangasius pangasius*) and Yellow Catfish (*Horabagrus brachysoma*), CIFA, Bhubaneswar, April 2007- March 2010)
- Community-Based Management for Sustainable Aquaculture in Rural Areas, CIFA, Bhubaneswar, Odisha. CIFA ICAR, April 2009-March 2011
- An International Consultancy Project on Breeding and Demonstration Project for FRP carp Hatchery in Diptipur, Bargarh District of Orissa, India. NR International, United Kingdom, June 2008–July 2008.
- An International Consultancy Project on Scaling up Aquaculture in Western Orissa. India, Rural Livelihoods Project (WORLP) Districts, India CIFA, Bhubaneswar, Odisha, Nr. International, United Kingdom,



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June, 2009-Sept. 2009

- Project Carp Seed Production in Mobile Hatchery and Rearing for Livelihood Development of SC/ST Communities in Selected Districts of Orissa, DBT, April 2009-Sept 2009.
- CIFA, Bhubaneswar, Odisha, DBT, Project on Economic and Livelihood Development of SC and ST Population through Aquaculture Technologies, April 2006-August 2009.
- Project on Sustainable Livelihood Improvement Through Livestock Development in Mayurbhanj, Keonjhar, and Sambalpur districts of Orissa NAIP-ICAR, April 2009 - March 2011
- Seasonal Incidences of Parasitic, Fungal, and Non-infectious Diseases in Coldwater Fishes and Evaluation of Herbal Extracts for Their Control, DCFR, April 2012 - March 2014
- THDC Consultancy Project on Preparation and Supporting Implementation of a Fish Management Plan for the Vishnugad Pipalkoti Hydro Electric Project (VPHEP) of THDC India Limited. THDC Consultancy, January 2014—Jan. 2018
- Performance Evaluation of Improved Strains of Common Carp, Champa-1 & Champa-2 at Different Thermal Regimes, DCFR, ICAR, April 2011 - March 2015
- Potential Bacterial Pathogens in Rainbow Trout Farms from Northern India and the Maintenance of Bacterial Agents. DCFR, ICRA, April 2011-March 2016
- Decoding the growth, maturation, and captive management constraints of snow trout (*Schizothorax richardsonii*, Gray, 1832). DCFR, ICRAR, April 2015-March 2019
- Coldwater fish disease surveillance in Jammu and Kashmir, Himachal Pradesh, and Uttarakhand. NFDB, April 2014-March 2020
- Investigation into fish health disorders associated with mortality in trout hatcheries and farms during seed production. DCFR, ICAR, July 2020-Cont.

Important 10 Publications (recent)

1. Chandra Suresh, Singh, S. K., Das Gupta, S. and Sahoo, S. K., 2015. Mass specific oxygen uptake in the freshwater catfish *Wallago attu* (Bloch & Schneider, 1801). *Indian Journal of Fisheries*, 62(3): 137-



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140.

- 2. Chandra Suresh, Patiyal, R S, Gupta, S K and Sarma, D.2018.Study on age dependent breeding performance of rainbow trout (Oncorhynchus mykiss, Walbaum, 1792). Journal of Coldwater Fisheries 1(1):125-128, 2018.
- 3. Tripathi, S.D., Arvindakshan, P.K., Ayyappan, S., Jena, J.K., Muduli, H.K., **Chandra Suresh** and Pani, K.C. 2000.New dimensions in intensive carp polyculture in India. *J.Aqua.Trop.* 15(2):pp119-128.
- **4.** Mallik, Sumanta Kumar, Shahi Neetu, Joshi Nupur, Pant Kushagra, Kala Krishna, **Chandra Suresh**, Sarma, Debajit. **2019**. The emergence of zoonotic Fusarium oxysporum infection in captive-reared fingerlings of golden mahseer, Tor putitora (Hamilton, 1822) from the central Himalayan region of India *Transbound Emerg Dis*. 2019;00:1–9 DOI:10.1111/tbed.13367.
- 5. Shahi, Neetu, Mallik, Sumanta Kumar, Kala Krishna, Joshi Nupur, Ravinder Singh Patiyal, **Suresh Chandra**, Sivam Singh, Debajit Sarma. 2020. Seasonal emergence of benign epidermal tumor in farmreared adult grass carp (*Ctenopharyngodon idella*) caused by lymphocystis disease virus at Uttarakhand, India. *Aquaculture*, Volume 526, 15 September 2020 https://doi.org/10.1016/j. aquaculture.2020. 73540.
- 6. Raja Aadil Hussain Bhat, Sabeehah Rehman, Ritesh Shantilal Tandel, Pragyan Dash, Ankita Bhandari, Parvaiz Ahmad Ganie, Tarang K. Shah, Kushagra Pant, Dar Jaffer Yousuf, Irfan Ahmad Bhat, Suresh Chandra, Sumanta K.Mallik, Debajit Sarma. 2021. Immunomodulatory and Antimicrobial potential of ethanolic extract of Himalayan Myrica esculanta in Oncorhynchus mykiss: Molecular modelling with Aeromonas hydrophila functional Aquaculture, Volume 533, 25 February 2021, https://doi.org/10.1016/j. aquaculture .2020.736213.
- 7. Ritesh, Shantilal, Tandel, Pragyan, Dash, Raja, Aadil, Hussain, Bhat, Dimpal, Thakuria, Paramita, Banerjee, Sawant, Nityanand, Pandey, **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*, Volume 114, July 2021, Pages 65-81. https://doi.org/10.1016/j.fsi. 2021.04.018.
- **8.** Shivam, Singh, Sumanta, Kumar, Mallik, Krishna, Kala, Neetu, Shahi, Richa, Pathak, Abhay, Kumar, Giri, **Suresh Chandra**, Kushagra Pant,



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Rabindar Singh Patiyal.**2021**. Characterization of *Flavobacterium columnare* from farmed infected rainbow trout, *Oncorhynchus mykiss* (Walbaum, 1792) of Central Indian Himalayan region, India. *Aquaculture* Volume 544, 15 November 2021, 737118.https://doi.org/10.1016/j.

- 9. Kumar, G., Sharma, J. G., Goswami, R. K., Shrivastav, A. K., Kumar, N., Chandra, S. and Chakrabarti, R. 2021. The study of effect of vitamin C and *Achyranthes aspera* seeds enriched diets on the growth, biochemical composition, digestive enzyme activities and expressions of genes involved in the biosynthesis of fatty acids in Snow trout *Schizothorax richardsonii* (Gray, 1832). *Journal of Applied Aquaculture* https://doi.org/10.1080/10454438.2021.1985679. Published online: 19 Oct 2021.
- 10. Vandana Pandey, Raja Aadil Hussain Bhat, **Suresh Chandra**, Ritesh Shantilal Tandel, Maneesh Kumar Dubey, Prakash Sharma, Bhawna Gehlot, Pragyan Dash, Rini Joshi. 2021. Clinical signs, lethal dose and histopathological lesions in grass carp, *Ctenopharyngodon idella* experimentally infected with *Edwardsiella tarda*. *Microbial Pathogenesis*, https://doi.org/10.1016/j.micpath.2021.105292. Published online: 12 November 2021.

Other information's

- As a team member Technology Package developed and transferred for 10 &15 ton/ha/yr fish production under development of intensive carp culture systems (Tripathi, S.D., Arvindakshan, P.K., Ayyappan, S., Jena, J.K., Muduli, H.K., Chandra Suresh and Pani, K.C. 2000)
- ➤ Radio talks from All India Radio/Prasar Bharti , Allahabad and Almora-11 nos.
- ➤ Member Secretary, RAC, ICAR-DCFR, Bhimtal 2019-20- Cont...