

CURRICULUM VITAE

Showkat Ahmad Dar (PhD, PDF-South Korea)
Assiatant Professor cum Jr Scientist,
College of fisheries Kishanganj, BASU-855107

Cell no. : +917006414883 e-mail: showkatdar53@gmail.com

Personal Information:

Name:Dr.Showkat AhmadDar

Father'sname : SonaUllahDar

Date of Birth : 18/04/1991

Sex : Male

Maritalstatus : Married

Nationality : Indian

Languages known : : English, Hindi, Kashmiri and
Urdu (Arabic*read and write only)

Present position : Assiatant Professor cum JrScientist,
College of fisheries Kishanganj, BASU-855107

Address for Correspondence : Assiatant Professor cum Jr Scientist,
College of fisheries Kishanganj, BASU-855107

Permanent address: Bellow Dargund, District Pulwama, Srinagar, Jammu

E-mail: showkatdar53@gmail.com

showkatdar9091@gmail.com

Phone: +821095449985/+917006414883

Citations: <https://scholar.google.co.in/citations?user=GAHygEwAAAAJ&hl=en>

Researchgate: https://www.researchgate.net/profile/Showkat_Dar7

Awards/Prizes/Scholarships Received:

- Qualified All India combined entrance examination 2012 for **Junior Research Fellowship (JRF)** conducted by Indian Council of Agricultural Research (ICAR), New Delhi and subsequently awarded with Central Institute of Fisheries Education (**CIFE Fellowship**) for pursuing post- graduation in Central Institute of Fisheries Education, MumbaiIndia.



- Awarded **Dr. K.V. Devraj Award** in All India Level of Professional Fisheries Graduates Forum.
- Qualified 1st Rank in Master Degree Programme and Awarded **Dr.HiralalchaudhuriGoldMedal**.
- Secured 1st rank (Gen) in CIFE Ph.D Entrance Exam-2015 and awarded Institutional (**CIFE**) **Fellowship** for pursuing Ph.D. in ICAR-Central Institute of Fisheries Education, Mumbai in the year 2015.
- Qualified NET (National eligibility Test for lectureships) in **Fish Nutrition and Biochemistry** conducted by **Agricultural Scientists Recruitment Board-2015**
- Qualified NET in **Animal Biochemistry**(2017).
- Awarded **national Postdoc fellowship by SERB India**
- Awarded **International postdoc fellowship by National Research foundation** South korea
- Awarded **Young Scientist Awards 2020** by journal of fisheries and Life science.
- Selected for the most prestigious **International Young Scientist Award 2020-21** instituted by the International Institute of organized Research
- Selected for **Ramanujan fellowship 2022** by Science & Engineering Research Board , India
- Young scientist award by Astha Foundation GRISAAS-2022 conference from 21-23 NOVEMBER , 2022
- Best Ph.D Thesis award by Astha Foundation GRISAAS-2022 conference from 21-23 NOVEMBER , 2022

Educational Qualification:

Course/ Degree	Subjects	Year	School/College	Board/Institution/Universti ty
Ph.D.	Fish Physiology And Biochemistry	2015 - 2018	Central Institute of Fisheries Education, Mumbai, India.	Central Institute of Fisheries Education, Mumbai, India.
M.F. Sc.	Fish Physiology And Biochemistry	2013 - 2015	Central Institute of Fisheries Education, Mumbai, India.	Central Institute of Fisheries Education, Mumbai, India.

B.F. Sc.	Fisheries Science	2009 - 2013	College Of Fisheries, Jammu and Kashmir.	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir.
----------	----------------------	----------------	---	--

Ph.D. Thesis topic

- The Dissertation entitled” **Studies and Regulation of Ghrelin gene expression in *Labeorohita*(Hamilton, 1822) under different feeding regimes.**

Outcome:

The results paved the way how ghrelin regulates the growth and development in fish and helped in understanding the endocrinology of fish hormonal regulation. Further the ghrelin peptide synthesis emphasized the peptide functioning in fish and their role in growth and production of fishes

Masters Dissertation:

The Dissertation entitled” **pharmacokinetic Study of Benzimidazole Derivatives in *Labeorohita*(Hamilton, 1822).**

Outcome:

I have prepared **anthelmintic medicated feed** to control the various parasitic and helminthic infections in fishes through feed.

Technical Standing:

- Expertise in DNA, RNA isolation, PCR, Gel Electrophoresis (Agarose and Polyacrylamide), Western blot, Transformation, Real Time PCR and Cloning. Have good methodical hand in Real time PCR, DDGE, TTGE and microscopy.
- Familiar with application of primer designing software like Gene Runner, CLUSTAL Omega, BLAST, NCBI, EMBL, DDBJ and Statistical analysis software.
- Sound experience in cell culture techniques, CPE, Histology and vaccination of fishes, immunology techniques in fish Virus isolation and bacterial culture work
- Sound experience in working of HPLC system, pharmacokinetics, xenobiotic and pharmacogenomics studies in fishes.
- Have good hand in biochemical parameter estimation. Technical competence in measurement and analysis of metabolic and digestive enzymes.
- Preparation of medicated feed for fishes. Having thorough knowledge regarding feed ingredient, fish physiology and biochemistry. Demonstrate high level expertise in proximate analysis of feed ingredients, estimation of Anti Nutritional Factors and method to detoxify them.
- Experience of three years on working in nutrigenomics study in fishes and

regulation of growth in fishes

- Strong ability and expertise to do the surgery of fishes and sensor related experiments to measure the temperature, heart rate and physiological aspects of fish.
- Have good experience of microarray related work.

Field Exposures/Trainings

- Completed a 6 month **Rural Awareness Work Experience Program(RAWE)** in Aquaculture farms, hydrological analysis in inland resource waters, processing plants, technical analysis laboratories and fishing villages during under graduation from April- August 2009.
- Participated in the National Conference on “**Strategies for Bridging the Yield Gap in Fisheries and Aquaculture**” organized by ‘Professional Fisheries Graduates Forum’ held at College Of Fisheries, Mangalore on march 24-25,2014.
- Completed the onemonth Training from Central Institute of Temperate Horticulture (CITH) on “**Techniques in Molecular Biology and Biochemistry**” from 7th Aug- 7th Sep,2014.
- Participated in the “**NAAS Silver Jubilee National Symposium on Indian Fisheries and Aquaculture: 25 years of Achievements and Way Forward**” held on 21-22 October 2014 atCIFE.
- Participated in **International Workshop on Fish Genomics** held on 19- 21 January 2015 at CIFE,Mumbai.
- Participated in 10 Days Central Advance Faculty Training (CAFT) program on **Nutrigemomic Approaches in Fish Nutritional Research** held at CIFE, Mumbai from 8th Dec. to 18th Dec.’2015.
- Participated in 11 Days Central Advance Faculty Training (CAFT) program on **Application of Medicated Feed In Aquaculture** held at CIFE, Mumbai from 13-23 february’2017.
- Participated in the Second National Students Convention on “**Innovative Approaches for Academic Excellence in Higher Fisheries Education**” (3-5march, 2017) at ICAR-CIFE, Mumbai.
- Having experience of about 3 years in conducting practical classes of Fish Physiology, Nutrition and Biochemistry courses of MFSc Students.
- Experience of two year **teaching** the master students of Physiology, Nutrition and Biochemistry at CIFE, Mumbai.

- One year experience as **research associate** at central Institute of fisheries institute Mumbai
- One and half year experience as **Postdoc international fellow** at department of aqualife medicine at chonnam national university, South korea

Publications:

1. **Showkat Ahmad Dar**, Prem Prakash Srivastava, Mohd Ashraf Rather b, Tincy Varghese, Sheikh Irfan Rasool a, Subodh Gupt. Molecular and computational analysis of Ghrelin, growth hormone Secretagogues receptor and mRNA expression of Growth-related genes after exogenous administered ghrelin peptide in *Labeorohita*, **International Journal of Biological Macromolecules**, 2020, **142**, 756-768.
2. **Showkat Ahmad Dar**, ArnavaChatterjii, Mohd Ashraf Rather, Digantachetia, Prem Prakash Srivastava, Subodh Gupta. Identification, functional characterization and expression profiling of cytochrome *p450 1A (CYP1A)* gene in *Labeorohita* against emamectin benzoate. **International Journal of Biological Macromolecules**, 2020. 158, 1268-1278.
3. **Dar Showkat Ahmad**, Prem Prakash Srivastava, Tincy Varghese, Subodh Gupta, Gopal Krishnab, Pallath Muhammed Nuzaibaa, and Tasok Leyaa. "Expression of Growth and Hunger Related Genes and Physio-Biochemical Responses in *Labeorohita* (Hamilton, 1822) Fed with Lysine and Betaine." *Cellular physiology and biochemistry: Cellular Physiology Biochemistry* 2019; 53:851-864
4. **Dar Showkat Ahmad**, Kole, S., Shin, S.M., Jeong, H.J. and Jung, S.J., 2021. Comparative study on antigen persistence and immunoprotective efficacy of intramuscular and intraperitoneal injections of squalene–aluminium hydroxide (Sq+ Al) adjuvanted viral hemorrhagic septicaemia virus vaccine in olive flounder (*Paralichthys olivaceus*). *Vaccine*, 39(47), pp.6866-6875.
5. **Dar Showkat Ahmad**, Srivastava, P.P., Varghese, T., Gupta, S., Mir, I.N., and Krishna, G ., 2019. Temporal changes in Superoxide dismutase, Catalase, and Heat shock protein 70 gene expression, cortisol and antioxidant enzymes activity of *Labeorohita* fingerlings subjected to

- starvation and refeeding. **Gene**, 692:94–101.
6. **Dar Showkat Ahmad.**, Srivastava, P.P., Varghese, T., Rasool, S.I., Anand, G., Gupta, S., Gireesh-Babu, P. and Krishna, G., 2018. Regulation of Compensatory Growth by Molecular Mechanism in *Labeorohita* Juveniles under Different Feeding Regimes. **General and comparative endocrinology**, 261:89-96.
 7. Kole, S., **Dar Showkat Ahmad.**, Shin, S.M., Jeong, H.J. and Jung, S.J., 2021. Potential Efficacy of Chitosan-Poly (Lactide-Co-Glycolide)-Encapsulated Trivalent Immersion Vaccine in Olive Flounder (*Paralichthys olivaceus*) Against Viral Hemorrhagic Septicemia Virus, *Streptococcus parauberis* Serotype I, and *Miamiensis avidus* (Scuticociliate). *Frontiers in immunology*, 12.
 8. **Dar Showkat Ahmad.**, Srivastava, P.P., Varghese, T., Gupta, S., Gireesh-Babu, P. and Krishna, G., 2018 . Effects of starvation and refeeding on expression of ghrelin and leptin gene with variations in metabolic parameters in *Labeorohita* fingerlings. **Aquaculture** 484:219–227.
 9. **Dar Showkat Ahmad.**, Nautiyal, V., Phulia, V., Bhat, I.A., Srivastava, P.P., Sahu, N.P. and Gupta, S., 2018. Determination of benzimidazoles in fish plasma by chromatographic method and their effects on metabolic and antioxidative enzymes activity. **Aquaculture** 486 ,57–63.
 10. **Dar Showkat Ahmad**, Prem Prakash Srivastava, Mir ishfaq, Iffat Jahan, Tincy Varghese, Irshad Ahmad and Subodh Gupta. Modulations of digestive and metabolic enzymes profiles during restriction feeding in *Labeorohita* (Hamilton, 1822) fingerlings. *North American Journal of Aquaculture* 2020. (Article in press)
 11. **Tasokleya, Dar Showkat Ahmad***, Gulsankumar and Irshad Ahmad 2020. Effects of curcumin supplement diet (CSD) on non-specific immunity and immune-related genes expression in *Labeorohita* fingerlings". *Aquaculture Research*. (Article in press)
 12. **Dar Showkat Ahmad.**, Gora A., Bhat, I.A., Srivastava, P., Muralidhara A.P. and Gupta S. (2017). Studies of anthelmintic benzimidazole derivatives on cytochrome P4501A (CYP1A) dependent detoxification mechanism in *Labeorohita*. *Aquaculture*, 481: 481, 79-84.

13. Ahmad, I., Bhat, I.A., Jagtap, D.D., Balasinor, N.H., Kumar, C.S., Chanu, T.I., Rani, B., **Dar Showkat Ahmad**, Leya, T., Gora, A.H. and Saharan, N., 2019. Computational and biological approach for studying structure-function of inhibin chimeric peptide antibodies in *Clarias batrachus*. *Aquaculture*, 501, pp.153-160.
14. Mir, I.N., Srivastava, P.P., Bhat, I.A., **Dar Showkat Ahmad**, Sushila, N., Varghese, T., Muralidhar, A.P. and Jain, K.K., 2019. Expression and activity of key lipases during the larval development of walking catfish (*Clarias magur*). *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, 332(5), pp.149-157.
15. Mir, I.N., Bhat, I.A., **Dar Showkat Ahmad**, Jain, K.K., Varghese, T., Kumari, R., Muralidhar, A.P. and Srivastava, P.P., 2019. Expression of alpha-amylase and growth-related genes during early larval developmental stages of *Clarias magur*. *Aquaculture*, 507, pp.69-74.
16. A.H. Gora, A.H., Sahu, N.P., Sahoo, S., Rehman, S., Ahmad, I., Agarwal, D., **Dar Showkat Ahmad** and Rasool, S.I., 2018. Metabolic and haematological responses of *Labeorohita* to dietary fucoidan. *Journal of Applied Animal Research*, 46:1, 1042-1050.
17. Rasool, I., Jain, k.k., Sahu, N.P., Sahoo, S., Gora, A.H., Rehman, S., and **Dar Showkat Ahmad** 2018. Evaluation of dietary protein to carbohydrate ratio on the growth, conversion efficiencies and body composition of Zebrafish. *J of Ent. and Zoo. Stud.* 6(2): 2254-2258.
18. Anand, G., Bhat, I.A., Varghese, T., **Dar Showkat Ahmad** Sahu, N.P., Aklakur, M.D., Kumar, S. and Sahoo, S., 2018. Alterations in non-specific immune responses, antioxidant capacities and expression levels of immunity genes in *Labeorohita* fed with graded level of carbohydrates. *Aquaculture*, 483:76-83.
19. Gora, A.H., Sahu, N.P., Sahoo, S., Rehman, S., **Dar Showkat Ahmad** Ahmad, I. and Agarwal, D., 2018. Effect of dietary *Sargassum wightii* and its fucoidan rich extract on growth, immunity, disease resistance and antimicrobial peptide gene expression in *Labeorohita*. *Inter. Aqua. Res.* 10:115-127.
20. Leya, T., Raman, R.P., Srivastava, P.P., Kumar, K., Ahmad, I., Gora, A.H., Poojary, N., Kumar, S. and **Dar Showkat Ahmad** 2017. Effects of

- Curcumin Supplemented Diet on Growth and Non-Specific Immune Parameters of *Cirrhinus mrigala* against *Edwardsiella* Infection. *Int.J.Curr.Microbiol.App.Sci*(2017) 6(9): 1230-1243.
21. Jahan, I., **Dar Showkat Ahmad** Anand, G., Singh, S., Reddy, A.K., Sudhagar, A., Harikrishna, V. and Srivastava, P.P., 2017. Enzymatic Alterations in *Litopenaeus vannamei* (Boone, 1931) Juveniles Exposed to Different Levels of Dietary Potassium and Magnesium Reared in Inland Saline Water. *Int.J.Curr.Microbiol.App.Sci*(2017) 6(11): 773-780.
22. **Dar Showkat Ahmad** Nautiyal, V., Phulia, V., Gupta, S., Sardar, P. and Sahu, N.P., 2017. Bioavailability of Albendazole and its Metabolites in Plasma of *Pangasianodon hypophthalmus* with High Performance Liquid Chromatography. *Int.J.Curr.Microbiol.App.Sci* (2017) 6(8):2392-2400
23. Kumar, S., **Dar Showkat Ahmad** Srivastava, P., Aklakur, M., Ande, M.P., Gireesh-Babu, P. and Gupta, S., 2016. Quantitative Expression of MyoD Regulatory Factor in *Pangasianodon hypophthalmus* Fingerlings for Optimization of Dietary Protein, the BioScan 11(4): 2077-2082, 2016

Conference papers/ Abstract

- **Showkat Ahmad Dar**, Srivastava, P.P, Rathore. G, Ande, M.P, and Subodh Gupta, presented Abstract entitled 2015. Pharmacokinetic AND Enzymatic Study of Antihelminthic Compounds in *Labeo rohita* In National Seminar on “**Fisheries and Aquaculture: Livelihood Security, Sustainability and Conservation**” during 21-22 January, 2016 at the collage of Fisheries , CAU (I), Lembucherra, Tripura.
- Vikas Phulia, V. Nautiyal., **Dar, S.A.**, Sahu, N.P., and Subodh Gupta 2016 Quantitative determination of albendazole and its metabolites in plasma of *Pangasianodon hypophthalmus* after oral administration February 2016 Conference: Fourth National Symposium on Transforming Indian Agriculture Towards Food and Nutritional Security At: Ranchi, India
- Participated in “**International Conference on Challenges and Opportunities for Sustainable Fisheries and Aquaculture Development (COSFAD, 2019)**” held on 17-20 January 2019 at College of Fisheries, Shirgaon, Ratnagiri, Maharashtra, India and awarded **Best Poster Presentation** for the

paper entitled “ *Effect Of Growth Modulators On Huger And Growth Related Genes In Labeorohita*(Hamilton,1822)”.

- participated in Fish Disease Session, **Korea Federation of Fisheries Science and Technology Societies Conference (KOFFST International Conference 2019) held on November 8th, 2019 at BEXCO, Busan, Republic of Korea.** He orally presented (No: OD-49) entitled “Immune gene expression profiles and serum parameters in curcumin supplemented diets of *Labeo rohita* fingerlings”.
- Participated in “**Asia-Pacific Aquaculture 2019 (COSFAD, 2019)**” held on 19-21 June 2019 at Chennai India and Poster Presentation for the paper entitled “*regulation of Growth Related Genes In Labeorohita*(Hamilton,1822) subjected to restriction feeding”.
- Paper presentation on Characterization And Role Of Ghrelin Hormone In Growth Regulation Of *Labeo Rohita* Subject To Feeding Alterations GRISAAS-2022 conference from 21-23 NOVEMBER , 2022 at BIRSA Agricultural university Ranchi. **Best oral presentation** award by GRISAAS-2022 from 21-23 NOVEMBER , 2022
- Poster presentation on Estimating Heart Rate And Temperature (Fever) Of Olive Flounder (*Paralichthys Olivaceus*) With Surgically Inserted Bio-Logger at GRISAAS-2022 conference from 21-23 NOVEMBER , 2022 at BIRSA Agricultural university Ranchi And was awarded **Best poster presentation award** by GRISAAS-2022 from 21-23 NOVEMBER , 2022

Technical /Popular Articles:

1. **Showkat Ahmad Dar.,** Bhat, I. A., Yousuf D. J. and Nazir, M. I., 2016. **Scope and the exploration of nonconventional feed resources and their utilization in aquaculture.** *Aqua International*,7:55-58.
2. **Showkat Ahmad Dar.,** Anand G and Jahan I 2017. **Impact of climate change on aquatic ecosystem and fish physiology,** *Aqua International*.
3. Anand G., Jahan I., **Showkat Ahmad Dar** and sujatasahoo. **Food grade organism as vaccines delivery** 2016. *Livestock and Feed trends*. 14:49-50
4. **Showkat Ahmad Dar.,** 2017. **The dying Wular Lake, time to save this pristine water body.** *Terra green*,52-54.

Book chapters

Showkat ahmad dar, Tincy Varghese, Prem Prakash Srivastava, and Sheikh Irfan Rasool 2019 Ghrelin: Importance in regulation of feeding and growth in fish. Next Generation Research in Aquaculture. Pp. 256-267 ISBN : 978-93-88668-76-7

Showkat Ahmad Dar, Sameer-ul-Salam Mattoo, and Prem Prakash Srivastava Ghrelin and Its Role in Reproductive. Physiology of Fish. 171-181. ISBN 978-981-15-8368-1. Springer

Showkat Ahmad Dar ., 2020. Detoxification Mechanisms of toxic substances by aquatic organisms.; A text book on fish Toxicology.

Showkatakahmaddar, Iffat Jahan, Garima Anand, parvaizahmadganie, Raja Aadil Hussian Bhat 2017. Phytotherapy: An alternative to chemical drugs in Aquaculture. Pp.71-80 ISBN: 978-93-5268-311-6.

Iffat Jahan, **Showkat Ahmad Dar**, garima Anand, Raja Aadil Hussian Bhat 2016. Inland ground saline water- a new Avenue for increasing Aquaculture Production. Aquaculture development Trends in India. Pp. 29-44. ISBN:978-93-5267-526-5.

Garima Anand, Iffat Jahan, Tincy Varghese and **Showkatakahmaddar** 2017. Benefits of garlic (*allium sativum*), Ginger (*Zingiber officinale*) and Onion (*Allium cepa*) as biomedicines in Aquaculture. Pp. 81-88 ISBN: 978-93- 5268-311-6.

Patents

[Submitted sequences in Genbank of NCBI](#)

- ❖ ***Labeorohitacytochrome P450 1A Mrna complete cds*** in NCBI, with Accession No. KR071123 with 578bp mRNA linear VRT26-JUL-2015 Showkat Ahmad Dar. Sarvendra, K., Adnan, G., Doreena, A.S., Srivastava, P.P., Ande, P.M. and Gupta, S.
- ❖ ***LabeorohitamRNA for preproghrelin, complete cds*** in NCBI, with Accession No. LC271259 with authors **Showkat Ahmad Dar.**, Srivastava, P.P., Varghese, T., Gireesh Babu, P., Krishna, G., Rasool, S.I. and Irfan, A.B.

- ❖ **Labeorohita mRNA for growth hormone releasing hormone, complete cds.** in NCBI, , with Accession No. LC314790 **Showkat Ahmad Dar.,** Srivastava,P.P., Varghese,T., Gupta,S., Gireesh,B.P., Krishna,G., Anand,G. and Rasool,S.I.
- ❖ **Labeorohita GHSR mRNA for growth hormone secretagogue receptor 1A, partial cds**inNCBI, with Accession No. LC331666. **Showkat Ahmad Dar.,** Srivastava,P.P., Varghese,T., Gupta,S., Gireesh,B.P., Krishna,G., Anand,G. and Rasool,S.I.

Referee

1. Dr. P.P.Srivastaava,
Principal Scientist, Division of Fish Nutrition, physiology and Biochemistry,
Central Institute of Fisheries Education, Mumbai, India
Email id: ppsrivastava@cife.edu.in

2. Dr. Subodh Gupta, Principal Scientist,
Division of Fish Nutrition, physiology and Biochemistry,
Central Institute of Fisheries Education, Mumbai, India
Email id: sgupta@cife.edu.in

3. Prof. Sung-Ju Jung
Department of Aqualife medicine,
Chonnam National University, South Korea, 59629
Email id: sungjujung1@gmail.com

Declaration:

I hereby solemnly declare that all the above-mentioned information about me is true to the best of my knowledge.

Place: COF, Kishanganj

Date:28-10-2022

Showkat Ahmad Dar