



PERSONAL INFORMATION:

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EDUCATION:

C. Degree	Field of Specialization	Name of Institution Attended	Period
Ph.D.	Aquaculture, Pre-, Pro-, Synbiotics	University of Tehran	2010-2013
M.Sc.	Aquaculture	University of Tehran	2007-2010
B.Sc.	Fisheries Science	Gorgan University of Agricultural Science and Natural Resources (GUASNR), Iran	2003-2007

RESEARCH INTEREST:

Microbial intervention in Aquaculture: The main goal is to evaluate the effects of different strategies of microbial intervention in aquaculture aimed at improvement of growth performance, feed consumption efficiency, immune responses as well as disease resistance of cultured fish and shellfish species. This area of research includes a vast area of studies on the isolation of Indigenous probiotics, evaluation of optimum prebiotics as well as the introduction of synbiotic feed additives. Also, the evaluation of the intestinal microbiota composition to find the best alternative for the modulation of microbial balance toward potential beneficial communities is of interest.

- 2—Growth promotion in marine and freshwater fishes: Considering the high cost of diet for farmers, one of our research activities is developing strategies to promote fish growth and improve feeding efficiency.
- 3- Research on Immunostimulants: The goal is to study the means of improving fish and shellfish immunity through dietary approaches. The focus will be on different feed

additives such as medicinal herbs, acidifiers, vitamins, etc. Also, the molecular approaches (e.g. gene expression) to find out the mode of action of those fish

- 4- Mucosal Immunity: Mucosal immunity is one of the areas which received increasing attention over the past year. Considering the importance of mucosal surfaces in fish and their resistance against disease, we are working on the evaluation of immune parameters in mucosal surfaces and possible ways to improve mucosal immunity in fish.

PUBLICATION:

1. Bagheri, S., Gholamhosseini, A., Hoseinifar, S. H., & Banaee, M. (2024). Investigation of the effects of heavy metals (copper, cobalt, manganese, selenium, and zinc) on fish immune systems: an overview. *Annals of Animal Science*.
2. Khanzadeh, M., Hoseinifar, S. H., & Beikzadeh, B. (2024). Investigating the effect of hydroalcoholic extract of red algae (*Laurencia caspica*) on growth performance, mucosal immunity, digestive enzyme activity and resistance to *Streptococcus iniae* and *Aeromonas hydrophila* in Nile tilapia (*Oreochromis niloticus*). *Aquaculture Reports*, 35, 101984.
3. Khanzadeh, M., Hoseinifar, S. H., Zargari, A., Tabibi, H., Van Doan, H., & Rabetimarghezar, N. (2024). Fucoidan derived from *Sargassum ilicifolium* affects growth and hemato-immunological parameters and antioxidant defense in Oscar (*Astronotus ocellatus*). *Frontiers in Marine Science*, 11, 1370871.
4. Ghafarifarsani, H., Hoseinifar, S. H., Raeesazadeh, M., Vijayaram, S., Rohani, M. F., Van Doan, H., et al. (2024). Comparative effect of chemical and green zinc nanoparticles on the growth, hematology, serum biochemical, antioxidant parameters, and immunity in serum and mucus of goldfish, *Carassius auratus* (Linnaeus, 1758). *Biological Trace Element Research*, 202(3), 1264-1278.
5. Hoseinifar, S. H., Ashouri, G., Marisaldi, L., Candelma, M., Basili, D., Zimbelli, A., et al. (2024). Reducing the use of antibiotics in European aquaculture with vaccines, functional feed additives and optimization of the gut microbiota. *Journal of Marine Science and Engineering*, 12(2), 204.
6. Hoseinifar, S. H., Ghafarifarsani, H., Raeisi, M., Raissy, M., Safari, R., Khosraviani, K., et al. (2024). Effect of dietary Moldavian balm (*Dracocephalum moldavica* L.) on growth performance, antioxidant status, immune response, and gene expression of common carp (*Cyprinus carpio*). *ANNALS OF ANIMAL SCIENCE*.
7. Hoseinifar, S. H., Ghafarifarsani, H., Raeisi, M., Raissy, M., Safari, R., Khosraviani, K., et al. (2023). Effect of dietary nutmeg (*Myristica fragrans*) on growth performance, antioxidant status, immune response, and gene expression of common carp (*Cyprinus carpio*). *Aquaculture Reports*, 33, 101787.

8. Ghafarifarsani, H., Aftabgard, M., Hoseinifar, S. H., Raeeszadeh, M., & Van Doan, H. (2023). Comparative effects of savory (*Satureja hortensis*), dill (*Anethum graveolens*), and mooseer (*Allium hirtifolium*) essential oils on growth, digestive, and immunoantioxidant parameters and resistance to *Aeromonas hydrophila* in juvenile common carp (*Cyprinus carpio*). *Aquaculture*, 572, 739541.
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10. Ghafarifarsani, H., Hoseinifar, S. H., Adhami, B., Rohani, M. F., & Van Doan, H. (2023). Dietary gallic acid influences serum enzymatic parameters and immunological responses in *Cyprinus carpio* exposed to crowding stress. *Aquaculture Reports*, 30, 101630.
11. Hoseinifar, S. H., Fazelan, Z., El-Haroun, E., Yousefi, M., Yazici, M., Van Doan, H., et al. (2023). The effects of grapevine (*Vitis vinifera* L.) leaf extract on growth performance, antioxidant status, and immunity of zebrafish (*Danio rerio*). *Fishes*, 8(6), 326.
12. Mousavi, S., Mohammadzadeh, S., Mood, S., Ahmadifar, E., Sheikhzadeh, N., Kalhor, N., et al. (2024). Dietray artichoke (*Cynara scolymus*) extract ameliorated the growth performance, humoral immune parameters and resistance against *Aeromonas hydrophila* in goldfish (*Carassius auratus*). *Annals of Animal Science*.
13. Van Doan, H., Prakash, P., Hoseinifar, S. H., Ringø, E., El-Haroun, E., Faggio, C., et al. (2023). Marine-derived products as functional feed additives in aquaculture: A review. *Aquaculture Reports*, 31, 101679.
14. Van Doan, H., Sumon, M. A. A., Tran, H. Q., Le, C. X., Mohammady, E. Y., El-Haroun, E. R., et al. (2024). Role of β -glucan on finfish and shellfish health and well-being: A systematic review and meta-analysis. *Reviews in Aquaculture*.
15. Vijayaram, S., Razafindralambo, H., Ghafarifarsani, H., Sun, Y.-Z., Hoseinifar, S. H., & Van Doan, H. (2024). Synergetic response on herbal and probiotic applications: a review. *Fish Physiology and Biochemistry*, 1-15.
16. Vijayaram, S., Ringø, E., Ghafarifarsani, H., Hoseinifar, S. H., Ahani, S., & Chou, C.-C. (2024). Use of Algae in Aquaculture: A Review. *Fishes*, 9(2), 63.
17. Yazici, M., Zavvar, F., Hoseinifar, S. H., Nedaei, S., & Doan, H. V. (2024). Administration of Red Macroalgae (*Galaxaura oblongata*) in the Diet of the Rainbow Trout (*Oncorhynchus mykiss*) Improved Immunity and Hepatic Gene Expression. *Fishes*, 9(2), 48.
18. Zoheiri, F., Hoseinifar, S. H., Mozanzadeh, M. T., Ahangarzadeh, M., Lieke, T., & Van Doan, H. (2023). Dietary fulvic acid increased growth, stress tolerance and disease resistance against *Vibrio harveyi* in Asian seabass (*Lates calcarifer*) juvenile. *Aquaculture Reports*, 32, 101738.
19. Ahmadifar, E., Kalhor, N., Yousefi, M., Adineh, H., Moghadam, M.S., Sheikhzadeh, N., Moonmanee, T., Hoseinifar, S.H. & Van Doan, H. (2023) Effects of dietary *Plantago ovata*

seed extract administration on growth performance and immune function of common carp (Cyprinus carpio) fingerling exposed to ammonia toxicity. *Veterinary Research Communications*, **47**, 731-744.

20. Bagheri, D., Moradi, R., Zare, M., Sotoudeh, E., Hoseinifar, S.H., Oujifard, A. & Esmaeili, N. (2023) Does Dietary Sodium Alginate with Low Molecular Weight Affect Growth, Antioxidant System, and Haemolymph Parameters and Alleviate Cadmium Stress in Whiteleg Shrimp (*Litopenaeus vannamei*)? *Animals*, **13**, 1805.
21. Bairami Igderi, A., Farhangi, M., Adineh, H., Jafaryan, H., Kordjazi, Z. & Hoseinifar, S.H. (2023) The Study of Caspian Roach (*Rutilus caspicus*) Fry Health Fed with Phytobiotic-Supplemented and Salinity Stress Resistance with Emphasis on Gill Tissue Pathology. *Aquaculture Nutrition*, **2023**.
22. Ghafarifarsani, H., Aftabgard, M., Hoseinifar, S.H., Raeeszadeh, M. & Van Doan, H. (2023a) Comparative effects of savory (*Satureja hortensis*), dill (*Anethum graveolens*), and mooseer (*Allium hirtifolium*) essential oils on growth, digestive, and immunoantioxidant parameters and resistance to *Aeromonas hydrophila* in juvenile common carp (*Cyprinus carpio*). *Aquaculture*, **572**, 739541.
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26. Hoseinifar, S.H., Fazelan, Z., El-Haroun, E., Yousefi, M., Yazici, M., Van Doan, H. & Paolucci, M. (2023) The Effects of Grapevine (*Vitis vinifera* L.) Leaf Extract on Growth Performance, Antioxidant Status, and Immunity of Zebrafish (*Danio rerio*). *Fishes*, **8**, 326.
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30. Adineh, H., Naderi, M., Harsij, M., Shirangi, S.A., Yousefi, M. & Hoseinifar, S.H. (2023) Interactive effects of culture systems (biofloc and clear water) and dietary protein levels on growth, digestive activity, mucosal immune responses, antioxidant status, and resistance against salinity stress in the Caspian roach (*Rutilus caspicus*) fry. *Aquaculture*, 570, 739418.
31. Ghafarifarsani, H., Aftabgard, M., Hoseinifar, S.H., Raeeszadeh, M. & Van Doan, H. (2023) Comparative effects of savory (*Satureja hortensis*), dill (*Anethum graveolens*), and mooseer (*Allium hirtifolium*) essential oils on growth, digestive, immunoantioxidant parameters and resistance to *Aeromonas hydrophila* in juvenile common carp (*Cyprinus carpio*). *Aquaculture*, 739541.
32. Abbasi, M., Taheri Mirghaed, A., Hoseini, S.M., Rajabiesterabadi, H., Hoseinifar, S.H. & Van Doan, H. (2023) Effects of Dietary Glycine Supplementation on Growth Performance, Immunological, and Erythrocyte Antioxidant Parameters in Common Carp, *Cyprinus carpio*. *Animals*, 13, 412.
33. Adineh, H., Naderi, M., Harsij, M., Shirangi, S.A., Yousefi, M. & Hoseinifar, S.H. (2023) Interactive effects of culture systems (biofloc and clear water) and dietary protein levels on growth, digestive activity, mucosal immune responses, antioxidant status, and resistance against salinity stress in the Caspian roach (*Rutilus caspicus*) fry. *Aquaculture*, 739418.
34. Ahmadi, A., Bagheri, D., Hoseinifar, S.H., Morshedi, V. & Paolucci, M. (2022) Beneficial role of polyphenols as feed additives on growth performances, immune response and antioxidant status of *Lates Calcarifer* (Bloch, 1790) juveniles. *Aquaculture*, 552, 737955.
35. Ahmadifar, E., Eslami, M., Kalhor, N., Zaretabar, A., Mohammadzadeh, S., Moghadam, M.S., Yousefi, M., Ahmadifar, M., Hoseinifar, S.H. & Pusadee, T. (2022a) Effect of a diet enriched with sodium propionate on growth performance, antioxidant property, innate-adaptive immune response, and growth-related genes expression in critically endangered beluga sturgeon (*Huso huso*). *Fish & Shellfish Immunology*, 125, 101-108.
36. Ahmadifar, E., Kalhor, N., Yousefi, M., Adineh, H., Moghadam, M.S., Sheikhzadeh, N., Moonmanee, T., Hoseinifar, S.H. & Van Doan, H. (2022b) Effects of dietary *Plantago ovata* seed extract administration on growth performance and immune function of common carp (*Cyprinus carpio*) fingerling exposed to ammonia toxicity. *Veterinary Research Communications*, 1-14.
37. Ahmadifar, E., Mohammadzadeh, S., Kalhor, N., Salehi, F., Eslami, M., Zaretabar, A., Moghadam, M.S., Hoseinifar, S.H. & Van Doan, H. (2022c) Effects of caffeic acid on the growth performance, growth genes, digestive enzyme activity, and serum immune parameters of beluga (*Huso huso*). *Journal of Experimental Zoology Part A: Ecological and*

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39. Ajdari, A., Ghafarifarsani, H., Hoseinifar, S.H., Javahery, S., Narimanizad, F., Gatphayak, K. & Van Doan, H. (2022) Effects of dietary supplementation of primaLac, inulin, and biomin imbo on growth performance, antioxidant, and innate immune responses of common carp (*Cyprinus carpio*). *Aquaculture Nutrition*, 2022, 1-13.
40. Arghideh, M., Hoseinifar, S.H., Ghorbani Nasrabadi, R., Mazandarani, M., El-Haroun, E. & Van Doan, H. (2022) Evaluation of Soil-Derived *Streptomyces chartreusis* KU324443 Effects as Probiotic on Growth Performance, Antioxidant Enzyme Activity, Mucosal and Serum Immune Parameters, and Related Gene Expression in Common Carp (*Cyprinus carpio*) Fingerlings. *Aquaculture Nutrition*, 2022.
41. Armobin, K., Ahmadifar, E., Adineh, H., Samani, M.N., Kalhor, N., Yilmaz, S., Hoseinifar, S.H. & Van Doan, H. (2023) Quercetin Application for Common Carp (*Cyprinus carpio*): I. Effects on Growth Performance, Humoral Immunity, Antioxidant Status, Immune-Related Genes, and Resistance against Heat Stress. *Aquaculture Nutrition*, 2023.
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43. Darvishi, M., Safari, R., Hoseinifar, S.H., Shabani, A., Dadar, M., Jarayedi, Z. & Paolucci, M. (2022) Sublethal doses of diazinon affected reproductive, immune, and oxidative status in female zebrafish (*Danio rerio*). *Aquaculture Reports*, 22, 100944.
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ACADEMIC TEACHING EXPERIENCE:

Teaching the following courses for BS.C., MS.C. and PhD students:

Computer Application in Aquaculture

Experiments in Natural Resources

English for Fisheries Students

General English

Principle of Aquaculture

Complementary Aquaculture

Larvae Culture

Cellular and Molecular Immunology

Research Methodology

AWARDS:

- Nominated in the list of ESI 1% Highly cited researcher of the world by WOS
- Nominated in the list of 2% top researchers of the world by Scopus
- Top Researcher of Iran (nominated by Ministry of Science) 2020
- Nominated as the top researcher of Golestan Province (2017, 2018, 2019, 2020, 2021, 2022, 2023)
- Nominated as the top researcher of GUASNR (2017, 2018, 2019, 2020, 2021, 2022, 2023)
- Nominated as the youngest "Associate Professor", of Iran (Promoted at age 31)
- Prestigious reviewer of several journals
- Awarded as Most Talented Youth of the City
- The Most Talented Youth of Golestan Province - Awarded by the Ministry of Youth

- Qualified as a Member of the Iranian elite institute
- Top Graduate student of GUASNR (B.Sc.)
- Top graduated M.Sc. student of the University of Tehran
- Ranked as the top student of the University of Tehran in 2009
- Honors Ph.D. student of fisheries at Tehran University
- Honors Ph.D. student of fisheries -Qualified by Ministry of Jihad-e Agriculture
- Top researchers of the Young Researchers Club in 2010 & 2011
- Honors reviewer of the Journal of Aquaculture Research and Developments
- Honors reviewer of the African Journal of Microbiology Research

LANGUAGES:

	Speaking	Listening	Writing
Persian	Mother tongue		
English	Good		

Gorgan University of Agricultural
Sciences & Natural Resources