



Curriculum Vitae

Personal Data:

Name	Surname	Date of Birth	Nationality	Sex	Marital Status
Seyed Hossein	Hoseinifar	1985	Iranian	Male	Married

Telephone	Mobile	E-mail
+981732245028	+989113706839	hoseinifar@gau.ac.ir ; hossein.hoseinifar@gmail.com

Educational Background:

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

Current position and Professional address:

Associate Professor, Department of Fisheries, Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran

Adjunct Professor, Department of Animal and Aquatic Sciences, Chiang Mai University, Thailand

Visiting Professor, Department of Life and Environmental Sciences, Università Politecnica delle Marche, Italy

H-INDEX (01.07.2024):

73 Google Scholar (sum of total citation 16912)

66 in Scopus (sum of total citation 12895)

60 in WOS (sum of total citation 11314)

Website: <http://hoseinifar.profcms.gau.ac.ir/?newlang=eng>

Researchgate: http://www.researchgate.net/profile/Seyed_Hossein_Hoseinifar/

Scholar google: <https://scholar.google.com.my/citations?user=7xDoqeoAAAAJ&hl=en>

ORCID: <http://orcid.org/0000-0002-0210-9013>

ResearcherID: G-8526-2017

Scopus ID: 36174872900

Research activities:

My research activity is focused on the following tasks:

- 1- 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 isolation of indigenous probiotics, evaluation of optimum prebiotics as well as the introduction of synbiotic feed additives. Also, evaluation of the intestinal microbiota composition to find the best alternative for modulation of microbial balance toward potential beneficial communities is also of interest.
- 2- Growth promotion in marine and freshwater fishes: Considering the high cost of diet for farmers, one of our research activities is working the strategies to promote the growth of fish 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 focuses will be on different feed additives such as medicinal herbs, acidifiers, vitamins, etc. Also, the molecular approaches (e.g. genes 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.

Awards:

- Nominated in the list of ESI 1% Highly cited researcher of the world by WOS
- Nominated in the list of 2% top researcher 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 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 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

Research Grants as PI (Since 2017):

- Title of Project: Isolation and identification of LAB probiotics from GI of Caspian white fish. Funder: Ministry of Science of Iran, **2021**
- Title of Project: Bioactive compounds recovery from agricultural wastes and associated industries: investigation the apple wastes derived pectin: effects on growth performance, biochemical and immunity, expression of key immune regulating genes of rainbow trout (*Oncorhynchus mykiss*). Funder: Iranian Science Foundation, **2020**

- Title of Project: Effects of dietary apple peel derived pectin and *Adiantum capillus-veneris* on growth performance and some immune parameters in serum and mucus of common carp (*Cyprinus carpio*). Funder: Deputy of Research, GUASNR, **2020**
- Title of Project: The study of olive oil extraction wastes effects on growth performance, antioxidant enzymes activity and serum immune parameters of rainbow trout (*Oncorhynchus mykiss*). Funder: Deputy of Research, GUASNR, **2019**
- Title of Project: The study of growth enhancing and immunostimulant effects of algae (*Gracilaria gracilis*) powder using zebrafish (*Danio rerio*) as model organism. Funder: Deputy of Research, GUASNR, **2018**
- Title of Project: The effects of jujube fruit extract on non-specific immune parameters and antioxidant defence system of common carp (*Cyprinus carpio*) fingerling. Funder: Deputy of Research, GUASNR, **2017**
- Title of Project: Isolation, purification and evaluation of probiotic properties of *Lactobacillus* species from Caspian roach (*Rutilus caspicus*) intestinal microflora. Funder: Deputy of Research, GUASNR, **2017**
- Title of Project: The effects of singular or combined administration of raffinose and probiotic *Lactobacillus acidophilus* on growth performance and non-specific immune parameters of common carp (*Cyprinus carpio*). Funder: Deputy of Research, GUASNR, **2017**

Editor of:

- Editor of Aquaculture reports (IF=3.21, Q1)
- Specialty Editor of Frontiers in Marine Science (IF =4.44, Q1)
- Section Editor of International Journal of Aquatic Biology (Scopus indexed)
- Special issues Editor of Aquaculture, Research and Developments

Journals Peer Reviewer (Number of Reviews):

- (222) Aquaculture Research WOS
- (128) Aquaculture WOS
- (79) Aquaculture Nutrition WOS
- (74) Fish & Shellfish Immunology WOS
- (47) Fish Physiology and Biochemistry WOS
- (22) Iranian Journal of Fisheries Sciences WOS
- (39) Aquaculture Reports WOS
- (31) Reviews in Aquaculture WOS
- (15) Environmental Science and Pollution Research WOS
- (16) Scientific Reports WOS
- (13) Journal of Applied Aquaculture
- (16) Journal of Applied Microbiology WOS
- (10) Journal of the World Aquaculture Society WOS
- (9) British Journal of Nutrition WOS
- (7) Egyptian Journal of Aquatic Research WOS
- (7) Journal of Functional Foods WOS
- (7) Annals of Animal Science WOS
- (7) Frontiers in Immunology WOS
- (5) Developmental & Comparative Immunology WOS
- (5) Heliyon WOS
- (5) Letters in Applied Microbiology WOS

Publications in peer-reviewed journals:

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., Raeeszadeh, 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.
9. Ghafarifarsani, H., Hedayati, S. A., Yousefi, M., Hoseinifar, S. H., Yarahmadi, P., Mahmoudi, S. S., et al. (2023). Toxic and bioaccumulative effects of zinc nanoparticle exposure to goldfish, *Carassius auratus* (Linnaeus, 1758). *Drug and Chemical Toxicology*, 46(5), 984-994.
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., Kalthor, N., et al. (2024). Dietary 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.
23. Ghafarifarsani, H., Hedayati, S.A., Yousefi, M., Hoseinifar, S.H., Yarahmadi, P., Mahmoudi, S.S. & Van Doan, H. (2023b) Toxic and bioaccumulative effects of zinc nanoparticle exposure to goldfish, *Carassius auratus* (Linnaeus, 1758). *Drug and Chemical Toxicology*, 46, 984-994.
24. Ghafarifarsani, H., Hoseinifar, S.H., Adhami, B., Rohani, M.F. & Van Doan, H. (2023c) Dietary gallic acid influences serum enzymatic parameters and immunological responses in *Cyprinus carpio* exposed to crowding stress. *Aquaculture Reports*, 30, 101630.
25. Ghafarifarsani, H., Hoseinifar, S.H., Raeeszadeh, M., Vijayaram, S., Rohani, M.F., Van Doan, H. & Sun, Y.-Z. (2023d) 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*, 1-15.
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.
27. Khanzadeh, M., Beikzadeh, B. & Hoseinifar, S.H. (2023) The Effects of *Laurencia caspica* Algae Extract on Hemato-Immunological Parameters, Antioxidant Defense, and Resistance against *Streptococcus agalactiae* in Nile tilapia (*Oreochromis niloticus*). *Aquaculture Nutrition*, 2023.
28. Van Doan, H., Prakash, P., Hoseinifar, S.H., Ringø, E., El-Haroun, E., Faggio, C., Olsen, R.E., Tran, H.Q., Stejskal, V. & Abdel-Latif, H.M. (2023) Marine-derived products as functional feed additives in aquaculture: A review. *Aquaculture Reports*, 31, 101679.
29. 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.
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 Integrative Physiology*, 337, 715-723.
38. Ahmadifar, E., Mohammadzadeh, S., Kalhor, N., Yousefi, M., Moghadam, M.S., Naraballoh, W., Ahmadifar, M., Hoseinifar, S.H. & Van Doan, H. (2022d) Cornelian cherry (*Cornus mas L.*) fruit extract improves growth performance, disease resistance, and serum immune-and antioxidant-related gene expression of common carp (*Cyprinus carpio*). *Aquaculture*, 558, 738372.
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.
42. Aski, H.S., Hoseinifar, S.H., Bayani, M., Reeisi, M., Khalili, M., El-Haroun, E. & Van Doan, H. (2022) The effects of dietary stachyose as prebiotic on immunity and antioxidant related genes' expression and lipid metabolism in zebrafish (*Danio rerio*). *Annals of Animal Science*, 22, 1097-1104.
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.
44. Eslami, M., Zaretabar, A., Dawood, M.A., Mohammadzadeh, S., Shahali, Y., Ahmadifar, E., Sheikhzadeh, N., Moghadam, M.S., Hoseinifar, S.H. & Van Doan, H. (2022) Can dietary ethanolic extract of propolis alter growth performance, digestive enzyme activity, antioxidant, and immune indices in juvenile beluga sturgeon (*Huso huso*)? *Aquaculture*, 552, 737939.
45. Faheem, M., Jamal, R., Nazeer, N., Khaliq, S., Hoseinifar, S.H., Van Doan, H. & Paolucci, M. (2022) Improving

Growth, Digestive and Antioxidant Enzymes and Immune Response of Juvenile Grass Carp (*Ctenopharyngodon idella*) by Using Dietary *Spirulina platensis*. *Fishes*, 7, 237.

46. Ghafarifarsani, H., Hedayati, S.A., Yousefi, M., Hoseinifar, S.H., Yarahmadi, P., Mahmoudi, S.S. & Van Doan, H. (2022a) Toxic and bioaccumulative effects of zinc nanoparticle exposure to goldfish, *Carassius auratus* (Linnaeus, 1758). *Drug and Chemical Toxicology*, 1-11.
47. Ghafarifarsani, H., Hoseinifar, S.H., Aftabgard, M. & Van Doan, H. (2022b) The improving role of savory (*Satureja hortensis*) essential oil for Caspian roach (*Rutilus caspicus*) fry: Growth, haematological, immunological, and antioxidant parameters and resistance to salinity stress. *Aquaculture*, 548, 737653.
48. Ghafarifarsani, H., Hoseinifar, S.H., Javahery, S. & Van Doan, H. (2022c) Effects of dietary vitamin C, thyme essential oil, and quercetin on the immunological and antioxidant status of common carp (*Cyprinus carpio*). *Aquaculture*, 553, 738053.
49. Ghafarifarsani, H., Hoseinifar, S.H., Javahery, S., Yazici, M. & Van Doan, H. (2022d) Growth performance, biochemical parameters, and digestive enzymes in common carp (*Cyprinus carpio*) fed experimental diets supplemented with vitamin C, thyme essential oil, and quercetin. *Italian Journal of Animal Science*, 21, 291-302.
50. Ghafarifarsani, H., Hoseinifar, S.H., Sheikhlar, A., Raissy, M., Chaharmahali, F.H., Maneepitaksanti, W., Faheem, M. & Van Doan, H. (2022e) The Effects of Dietary Thyme Oil (*Thymus vulgaris*) Essential Oils for Common Carp (*Cyprinus carpio*): Growth Performance, Digestive Enzyme Activity, Antioxidant Defense, Tissue and Mucus Immune Parameters, and Resistance against *Aeromonas hydrophila*. *Aquaculture Nutrition*.
51. Ghafarifarsani, H., Hoseinifar, S.H., Sheikhlar, A., Raissy, M., Chaharmahali, F.H., Maneepitaksanti, W., Faheem, M. & Van Doan, H. (2022f) On this page. *Aquaculture Nutrition*, 2, 3.
52. Ghafarifarsani, H., Yousefi, M., Hoseinifar, S.H., Paolucci, M., Lumsangkul, C., Jaturasitha, S. & Van Doan, H. (2022g) Beneficial effects of Persian shallot (*Allium hirtifolium*) extract on growth performance, biochemical, immunological and antioxidant responses of rainbow trout *Oncorhynchus mykiss* fingerlings. *Aquaculture*, 555, 738162.
53. Harikrishnan, R., Devi, G., Van Doan, H., Vijay, S., Balasundaram, C., Ringø, E., Hoseinifar, S.H. & Jaturasitha, S. (2022) Dietary plant pigment on blood-digestive physiology, antioxidant-immune response, and inflammatory gene transcriptional regulation in spotted snakehead (*Channa punctata*) infected with *Pseudomonas aeruginosa*. *Fish & Shellfish Immunology*, 120, 716-736.
54. Heshmatfar, F., Safari, R., Shabani, A., Hoseinifar, S.H., Ghaffari, H., Shokohian, B., Ullah, M.R. & Siddik, M.A. (2023) The effects of combined or singular administration of formic acid and *Pediococcus acidilactici* on stress resistance, growth performance, immune responses and related genes expression in common carp, *Cyprinus carpio*. *Aquaculture Reports*, 29, 101474.
55. Hoseini, S.M., Aydın, B., Hoseinifar, S.H., Moonmanee, T. & Van Doan, H. (2022a) Dietary *Artemisia*, *Artemisia annua*, supplementation improves common carp welfare under high stocking density. *Aquaculture Research*, 53, 3494-3503.
56. Hoseini, S.M., Gupta, S.K., Yousefi, M., Kulikov, E.V., Drukovsky, S.G., Petrov, A.K., Mirghaed, A.T., Hoseinifar, S.H. & Van Doan, H. (2022b) Mitigation of transportation stress in common carp, *Cyprinus carpio*, by dietary administration of turmeric. *Aquaculture*, 546, 737380.
57. Hoseini, S.M., Khosraviani, K., Delavar, F.H., Arghideh, M., Zavvar, F., Hoseinifar, S.H., Van Doan, H., Zabihi, E. & Reverter, M. (2022c) Hepatic transcriptomic and histopathological responses of common carp, *Cyprinus carpio*, to copper and microplastic exposure. *Marine Pollution Bulletin*, 175, 113401.
58. Hoseini, S.M., Majidiyan, N., Mirghaed, A.T., Hoseinifar, S.H. & Van Doan, H. (2022d) Dietary glycine supplementation alleviates transportation-induced stress in common carp, *Cyprinus carpio*. *Aquaculture*, 551, 737959.
59. Hoseini, S.M., Paolucci, M., Arghideh, M., Hosseinpour Delavar, F., Zavvar, F., Hoseinifar, S.H. & Van Doan, H. (2022e) Effects of dietary glycine administration on biochemical responses to ammonia toxicity in common carp, *Cyprinus carpio*. *Aquaculture Research*, 53, 2185-2194.

60. Hoseini, S.M., Rajabiesterabadi, H., Abbasi, M., Khosraviani, K., Hoseinifar, S.H. & Van Doan, H. (2022f) Modulation of humoral immunological and antioxidant responses and gut bacterial community and gene expression in rainbow trout, *Oncorhynchus mykiss*, by dietary lactic acid supplementation. *Fish & Shellfish Immunology*, 125, 26-34.
61. Hoseini, S.M., Sinha, R., Fazel, A., Khosraviani, K., Hosseinpour Delavar, F., Arghideh, M., Sedaghat, M., Paolucci, M., Hoseinifar, S.H. & Van Doan, H. (2022g) Histopathological damage and stress-and immune-related genes' expression in the intestine of common carp, *Cyprinus carpio* exposed to copper and polyvinyl chloride microparticle. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology*, 337, 181-190.
62. Hoseini, S.M., Taheri Mirghaed, A., Pagheh, E., Hoseinifar, S.H. & Van Doan, H. (2022h) Anesthesia of rainbow trout with citronellal: Efficacy and biochemical effects. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology*, 337, 227-237.
63. Hoseini, S.M., Yousefi, M., Abbasi, M., Kulikov, E.V., Drukovsky, S.G., Petrov, A.K., Krotova, E.A., Hoseinifar, S.H. & Van Doan, H. (2022i) Improvement of Growth Performance, Hepatic and Erythrocyte Antioxidant Capacity, Innate Immunity, and Biochemical Parameters of Persian Sturgeon, *Acipenser persicus*, by Sulfur Amino Acids' Supplementation. *Aquaculture Nutrition*, 2022.
64. Hoseinifar, S.H., Fazelan, Z., Bayani, M., Yousefi, M., Van Doan, H. & Yazici, M. (2022) Dietary red macroalgae (*Halophytis incurva*) improved systemic and mucosal immune and antioxidant parameters and modulated related gene expression in zebrafish (*Danio rerio*). *Fish & Shellfish Immunology*, 123, 164-171.
65. Imperatore, R., Orso, G., Facchiano, S., Scarano, P., Hoseinifar, S.H., Ashouri, G., Guarino, C. & Paolucci, M. (2023) Anti-inflammatory and immunostimulant effect of different timing-related administration of dietary polyphenols on intestinal inflammation in zebrafish, *Danio rerio*. *Aquaculture*, 563, 738878.
66. Le Xuan, C., Wannavijit, S., Outama, P., Montha, N., Lumsangkul, C., Tongsir, S., Chitmanat, C., Hoseinifar, S.H. & Van Doan, H. (2022) Effects of dietary rambutan (*Nephelium lappaceum* L.) peel powder on growth performance, immune response and immune-related gene expressions of striped catfish (*Pangasianodon hypophthalmus*) raised in biofloc system. *Fish & Shellfish Immunology*, 124, 134-141.
67. Linh, N.V., Dien, L.T., Dong, H.T., Khongdee, N., Hoseinifar, S.H., Musthafa, M.S., Dawood, M.A. & Van Doan, H. (2022a) Efficacy of Different Routes of Formalin-Killed Vaccine Administration on Immunity and Disease Resistance of Nile Tilapia (*Oreochromis niloticus*) Challenged with *Streptococcus agalactiae*. *Fishes*, 7, 398.
68. Linh, N.V., Van Nguyen, D., Khongdee, N., Wannavijit, S., Outama, P., Le Xuan, C., Mahatheeranont, S., Sookwong, P., Le, T.D. & Hoseinifar, S.H. (2022b) Influence of black rice (*Oryza sativa* L.) bran derived anthocyanin-extract on growth rate, immunological response, and immune-antioxidant gene expression in Nile tilapia (*Oreochromis niloticus*) cultivated in a biofloc system. *Fish & Shellfish Immunology*, 128, 604-611.
69. Mahboub, H., Rashidian, G., Hoseinifar, S.H., Elsheshtawy, H.M., Fahim, A., Ghafari Farsani, H., Algharib, S.A. & Van Doan, H. (2022a) *Allium Hirtifolium* Extract Mitigates Protein Disruption, Stress, Hepato-Renal Dysfunction, Oxidative Damage, Hepato-Nephrotoxicity, and Gene Down-Regulation Induced by Foodborne Zinc Oxide Nanoparticles Toxicity in Common Carp (*Cyprinus Carpio*).
70. Mahboub, H.H., Rashidian, G., Hoseinifar, S.H., Kamel, S., Zare, M., Ghafarifarsani, H., Algharib, S.A., Moonmanee, T. & Van Doan, H. (2022b) Protective effects of *Allium hirtifolium* extract against foodborne toxicity of Zinc oxide nanoparticles in Common carp (*Cyprinus carpio*). *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, 257, 109345.
71. Mahmoudi, N., Safari, R., Shabani, A., Hoseinifar, S.H., Yazici, M. & El-Haroun, E. (2022) Can dietary *Dictyota dichotoma* powder affect performance, serum, and mucus immune parameters, and antioxidant defense in Zebrafish (*Danio rerio*)? *Aquaculture Reports*, 26, 101279.
72. Maniat, M., Salati, A.P., Zanguee, N., Mousavi, S.M. & Hoseinifar, S.H. (2023) Effects of Dietary *Pediococcus acidilactici* and Isomaltooligosaccharide on Growth Performance, Immunity, and Antioxidant Defense in Juvenile Common Carp. *Aquaculture Nutrition*, 2023.
73. Maradonna, F., Fontana, C.M., Sella, F., Giommi, C., Facchinello, N., Rampazzo, C., Caichiolo, M., Hoseinifar, S.H., Dalla Valle, L. & Van Doan, H. (2022) A zebrafish HCT116 xenograft model to predict anandamide outcomes

on colorectal cancer. *Cell Death & Disease*, 13, 1069.

74. Mighani, S., Safari, R., Hoseinifar, S.H., Shabani, A. & Dadar, M. (2022) The effect of diazinon as agricultural pesticides on reproductive indices and related genes expression in zebrafish (*Danio rerio*). *Aquaculture Research*, 53, 1019-1025.
75. Nedaei, S., Noori, A., Valipour, A., Khanipour, A.A. & Hoseinifar, S.H. (2023) Dietary Effects of *Lactobacillus plantarum* Combined with Galactooligosaccharide on Immunological and Biochemical Parameters, Gut Microbiota, Digestive Enzyme Activity, Body Composition, and Stress Resistance in Narrow-Clawed Crayfish, *Pontastacus leptodactylus* (Eschscholtz, 1823). *Aquaculture Nutrition*, 2023.
76. Raissy, M., Ghafarifarsani, H., Hoseinifar, S.H., El-Haroun, E.R., Naserabad, S.S. & Van Doan, H. (2022) The effect of dietary combined herbs extracts (oak acorn, coriander, and common mallow) on growth, digestive enzymes, antioxidant and immune response, and resistance against *Aeromonas hydrophila* infection in common carp, *Cyprinus carpio*. *Aquaculture*, 546, 737287.
77. Rashidian, G., Mahboub, H.H., Hoseinifar, S.H., Ghafarifarsani, H., Zare, M., Punyatong, M. & Van Doan, H. (2022) *Allium hirtifolium* protects *Cyprinus carpio* against the detrimental responses mediated by foodborne zinc oxide nanoparticle. *Aquaculture*, 555, 738252.
78. Rouhani, E., Safari, R., Imanpour, M.R., Hoseinifar, S.H., Yazici, M. & El-Haroun, E. (2022) Effect of Dietary Administration of Green Macroalgae (*Ulva intestinalis*) on Mucosal and Systemic Immune Parameters, Antioxidant Defence, and Related Gene Expression in Zebrafish (*Danio rerio*). *Aquaculture Nutrition*, 2022.
79. Safari, R., Hoseinifar, S.H., Imanpour, M.R., Hajibegloo, A., Sanchouli, H., Homayouni, M. & Siddik, M.A. (2022a) The effects of multi-enzyme and betaine on growth performance, body composition haemato-immunological parameters and expression of growth-related genes in beluga (*Huso huso*). *Aquaculture*, 549, 737784.
80. Safari, R., Imanpour, M.R., Hoseinifar, S.H., Faheem, M., Dadar, M. & Van Doan, H. (2022b) Effects of dietary *Lactobacillus casei* on the immune, growth, antioxidant, and reproductive performances in male zebrafish (*Danio rerio*). *Aquaculture Reports*, 25, 101176.
81. Safari, R., Roosta, Z., Vakili, F., Rahmani, E., Hossain, M.S., Raeisi, M., Van Doan, H., Paolucci, M. & Hoseinifar, S.H. (2022c) Dietary dragonhead effects on growth, immunity and antioxidant and related genes expression in zebrafish (*Danio rerio*). *Aquaculture Reports*, 27, 101384.
82. Taheri Mirghaed, A., Ghelichpour, M., Aghaei Moghaddam, A., Hoseinifar, S.H. & Hoseini, S.M. (2022a) Hepatic Health and Humoral Immunological Parameters of Common Carp, *Cyprinus carpio*, Fed Lactic Acid-Supplemented diets. *Iranian Journal of Veterinary Medicine*.
83. Taheri Mirghaed, A., Hoseini, S.M., Aydın, B., Paolucci, M., Hoseinifar, S.H. & Van Doan, H. (2022b) Effects of anaesthesia with 1, 8-cineole on haematological and plasma stress responses in Caspian trout, *Salmo caspius*, subadults. *Aquaculture Research*, 53, 893-900.
84. Taziki, T., Jafari, V., Mazandarani, M. & Hoseinifar, S.H. (2023) Effects of dietary L-Proline and L-Alanine on growth performance, and flesh quality of common carp (*Cyprinus carpio*) juveniles. *Annals of Animal Science*, 23, 195-204.
85. Vakili, F., Roosta, Z., Safari, R., Raeisi, M., Hossain, M.S., Guerreiro, I., Akbazadeh, A. & Hoseinifar, S.H. (2022) Effects of dietary nutmeg (*Myristica fragrans*) seed meals on growth, non-specific immune indices, antioxidant status, gene expression analysis, and cold stress tolerance in zebrafish (*Danio rerio*). *Frontiers in Nutrition*, 9.
86. Van Doan, H., Lumsangkul, C., Hoseinifar, S.H., Jaturasitha, S., Tran, H.Q., Chanbang, Y., Ringø, E. & Stejskal, V. (2022a) Influences of spent coffee grounds on skin mucosal and serum immunities, disease resistance, and growth rate of Nile tilapia (*Oreochromis niloticus*) reared under biofloc system. *Fish & Shellfish Immunology*, 120, 67-74.
87. Van Doan, H., Lumsangkul, C., Sringarm, K., Hoseinifar, S.H., Dawood, M.A., El-Haroun, E., Harikrishnan, R., Jaturasitha, S. & Paolucci, M. (2022b) Impacts of Amla (*Phyllanthus emblica*) fruit extract on growth, skin mucosal and serum immunities, and disease resistance of Nile tilapia (*Oreochromis niloticus*) raised under biofloc system. *Aquaculture Reports*, 22, 100953.

88. Vijayaram, S., Sun, Y.-Z., Zuorro, A., Ghafarifarsani, H., Van Doan, H. & Hoseinifar, S.H. (2022) Bioactive immunostimulants as health-promoting feed additives in aquaculture: A review. *Fish & Shellfish Immunology*.
89. Yousefi, M., Ghafarifarsani, H., Hoseini, S.M., Hoseinifar, S.H., Abtahi, B., Vatnikov, Y.A., Kulikov, E.V. & Van Doan, H. (2022a) Effects of dietary thyme essential oil and prebiotic administration on rainbow trout (*Oncorhynchus mykiss*) welfare and performance. *Fish & shellfish immunology*, 120, 737-744.
90. Yousefi, M., Hoseini, S.M., Aydın, B., Mirghaed, A.T., Kulikov, E.V., Drukovsky, S.G., Seleznev, S.B., Rudenko, P.A., Hoseinifar, S.H. & Van Doan, H. (2022b) Anesthetic efficacy and hemato-biochemical effects of thymol on juvenile Nile tilapia, *Oreochromis niloticus*. *Aquaculture*, 547, 737540.
91. Ahmadifar, E., Pourmohammadi Fallah, H., Yousefi, M., Dawood, M.A., Hoseinifar, S.H., Adineh, H., Yilmaz, S., Paolucci, M. & Doan, H.V. (2021) The gene regulatory roles of herbal extracts on the growth, immune system, and reproduction of fish. *Animals*, 11, 2167.
92. Ghafarifarsani, H., Hoseinifar, S.H., Adorian, T.J., Ferrigolo, F.R.G., Raissy, M. & Van Doan, H. (2021a) The effects of combined inclusion of *Malvae sylvestris*, *Origanum vulgare*, and *Allium hirtifolium* boiss for common carp (*Cyprinus carpio*) diet: Growth performance, antioxidant defense, and immunological parameters. *Fish & Shellfish Immunology*, 119, 670-677.
93. Ghafarifarsani, H., Hoseinifar, S.H., Talebi, M., Yousefi, M., Van Doan, H., Rufchaei, R. & Paolucci, M. (2021b) Combined and singular effects of ethanolic extract of persian shallot (*Allium hirtifolium* Boiss) and synbiotic Biomin® IMBO on growth performance, serum-and mucus-immune parameters and antioxidant defense in Zebrafish (*Danio rerio*). *Animals*, 11, 2995.
94. Harikrishnan, R., Devi, G., Van Doan, H., Balasundaram, C., Thamizharasan, S., Hoseinifar, S.H. & Abdel-Tawwab, M. (2021) Effect of diet enriched with *Agaricus bisporus* polysaccharides (ABPs) on antioxidant property, innate-adaptive immune response and pro-anti inflammatory genes expression in *Ctenopharyngodon idella* against *Aeromonas hydrophila*. *Fish & Shellfish Immunology*, 114, 238-252.
95. Hoseini, S.M., Gharavi, B., Mirghaed, A.T., Hoseinifar, S.H. & Van Doan, H. (2021) Effects of dietary phytol supplementation on growth performance, immunological parameters, antioxidant and stress responses to ammonia exposure in common carp, *Cyprinus carpio* (Linnaeus, 1758). *Aquaculture*, 545, 737151.
96. Hoseinifar, S.H., Rashidian, G., Ghafarifarsani, H., Jahazi, M.A., Soltani, M., Doan, H.V., El-Haroun, E. & Paolucci, M. (2021) Effects of apple (*Malus pomila*) pomace-derived pectin on the innate immune responses, expressions of key immune-related genes, growth performance, and digestive enzyme activity of rainbow trout (*Oncorhynchus mykiss*). *Animals*, 11, 2117.
97. Jafari, V., Nasiri, H.R., Hoseinifar, S.H., Mazandarani, M. & Van Doan, H. (2021) Effects of different levels of pectin as a natural prebiotic in the diet on the immune system, antioxidant defense system of leg white shrimp (*Litopenaeus vannamei*). *Utilization and Cultivation of Aquatics*, 10, 63-73.
98. Lieke, T., Steinberg, C.E., Bittmann, S., Behrens, S., Hoseinifar, S.H., Meinelt, T., Knopf, K. & Kloas, W. (2021) Fulvic acid accelerates hatching and stimulates antioxidative protection and the innate immune response in zebrafish larvae. *Science of The Total Environment*, 796, 148780.
99. Vakili, F., Roosta, Z., Hoseinifar, S.H. & Akbarzadeh, A. (2021) Effects of thermal stress and hypoxia on skin mucus immune and stress responses in blue gourami (*Trichogaster trichopterus*) cultured in intensive recirculation aquaculture system and semi-intensive systems. *Aquaculture Research*, 52, 6581-6590.
100. Van Doan, H., Hoseinifar, S.H., Harikrishnan, R., Khamlor, T., Punyatong, M., Tapingkae, W., Yousefi, M., Palma, J. & El-Haroun, E. (2021a) Impacts of pineapple peel powder on growth performance, innate immunity, disease resistance, and relative immune gene expression of Nile tilapia, *Oreochromis niloticus*. *Fish & Shellfish Immunology*, 114, 311-319.
101. Van Doan, H., Hoseinifar, S.H., Naraballobh, W., Paolucci, M., Wongmaneeprateep, S., Charoenwattanasak, S., Dawood, M.A. & Abdel-Tawwab, M. (2021b) Dietary inclusion of watermelon rind powder and *Lactobacillus plantarum*: Effects on Nile tilapia's growth, skin mucus and serum immunities, and disease resistance. *Fish & Shellfish Immunology*, 116, 107-114.

102. Van Doan, H., Lumsangkul, C., Hoseinifar, S.H., Harikrishnan, R., Balasundaram, C. & Jaturasitha, S. (2021c) Effects of coffee silverskin on growth performance, immune response, and disease resistance of Nile tilapia culture under biofloc system. *Aquaculture*, 543, 736995.
103. Van Doan, H., Lumsangkul, C., Hoseinifar, S.H., Tongsiri, S., Chitmanat, C., Musthafa, M.S., El-Haroun, E. & Ringo, E. (2021d) Modulation of growth, innate immunity, and disease resistance of Nile tilapia (*Oreochromis niloticus*) culture under biofloc system by supplementing pineapple peel powder and *Lactobacillus plantarum*. *Fish & Shellfish Immunology*, 115, 212-220.
104. Van Doan, H., Lumsangkul, C., Jaturasitha, S., Meidong, R., Hoseinifar, S.H. & Dawood, M.A. (2021e) Modulation of growth, skin mucus and serum immunities, and disease resistance of Nile tilapia fed host-associated probiotic (*Lactobacillus paracasei* 161-27b). *Aquaculture Nutrition*, 27, 3-12.
105. Van Doan, H., Lumsangkul, C., Ruangwong, O.U., Meidong, R., Hoseinifar, S.H., Dawood, M.A., Azra, M.N., Jaturasitha, S. & Carnevali, O. (2021f) Effects of host-associated probiotic *Bacillus altitudinis* B61-34b on growth performance, immune response and disease resistance of Nile tilapia (*Oreochromis niloticus*) raised under biofloc system. *Aquaculture Nutrition*, 27, 61-72.
106. Yousefi, M., Abtahi, B., Adineh, H., Hoseinifar, S.H., Taheri Mirghaed, A., Paolucci, M. & Van Doan, H. (2021a) Effects of dietary arginine supplementation on cytokine-and antioxidant-related gene expressions in common carp (*Cyprinus carpio*) fingerling during ammonia toxicity. *Aquaculture Research*, 52, 2751-2758.
107. Yousefi, M., Zahedi, S., Reverter, M., Adineh, H., Hoseini, S.M., Van Doan, H., El-Haroun, E.R. & Hoseinifar, S.H. (2021b) Enhanced growth performance, oxidative capacity and immune responses of common carp, *Cyprinus carpio* fed with *Artemisia absinthium* extract-supplemented diet. *Aquaculture*, 545, 737167.
108. Ghafarifarsani, H., Rashidian, G., Sheikhlari, A., Naderi Farsani, M., Hoseinifar, S.H. & Van Doan, H. (2021b) The use of dietary oak acorn extract to improve haematological parameters, mucosal and serum immunity, skin mucus bactericidal activity, and disease resistance in rainbow trout (*Oncorhynchus mykiss*). *Aquaculture Research*, 52, 2518-2527.
109. Ghelichpour, M., Mirghaed, A.T., Dawood, M.A., Hoseinifar, S.H. & Van Doan, H. (2021) Alteration of haematological and antioxidant parameters in common carp (*Cyprinus carpio*) fed olive (*Olea europaea*) leaf extract after exposure to Danitol®. *Aquaculture Research*, 52, 1088-1095.
110. Harikrishnan, R., Devi, G., Van Doan, H., Balasundaram, C., Thamizharasan, S., Hoseinifar, S.H. & Abdel-Tawwab, M. (2021) Effect of diet enriched with *Agaricus bisporus* polysaccharides (ABPs) on antioxidant property, innate-adaptive immune response and pro-anti-inflammatory genes expression in *Ctenopharyngodon idella* against *Aeromonas hydrophila*. *Fish & Shellfish Immunology*, 114, 238-252.
111. Hoseini, S.M., Mirghaed, A.T., Iri, Y., Hoseinifar, S.H., Van Doan, H. & Reverter, M. (2021b) Effects of dietary Russian olive, *Elaeagnus angustifolia*, leaf extract on growth, hematological, immunological, and antioxidant parameters in common carp, *Cyprinus carpio*. *Aquaculture*, 536, 736461.
112. Hoseinifar, S.H., Jahazi, M.A., Mohseni, R., Yousefi, M., Bayani, M., Mazandarani, M., Van Doan, H. & El-Haroun, E.R. (2021) Dietary apple peel-derived pectin improved growth performance, antioxidant enzymes and immune response in common carp, *Cyprinus carpio* (Linnaeus, 1758). *Aquaculture*, 535, 736311.
113. Latif, M., Faheem, M., Hoseinifar, S.H. & Van Doan, H. (2021a) Dietary Black Seed Effects on Growth Performance, Proximate Composition, Antioxidant and Histo-Biochemical Parameters of a Culturable Fish, Rohu (*Labeo rohita*). *Animals*, 11, 48.
114. Rufchaei, R., Nedaei, S., Hoseinifar, S.H., Hassanpour, S., Golshan, M. & Sayad Bourani, M. (2021) Improved growth performance, serum and mucosal immunity, haematology and antioxidant capacity in pikeperch (*Sander lucioperca*) using dietary water hyacinth (*Eichhornia crassipes*) leaf powder. *Aquaculture Research*, 52, 2194-2204.
115. Safari, R., Hoseinifar, S.H. & Dadar, M. (2021) Enrichment of common carp (*Cyprinus carpio*) diet with Malic acid: Effects on skin mucosal immunity, antioxidant defecne and growth performance. *Annals of Animal Science*, 21, 561-573.
116. Safari, R., Hoseinifar, S.H., Dadar, M., Nejadmoghaddam, S. & Van Doan, H. (2020a) Effect of dietary sodium

acetate on skin mucus immune parameters and expression of gene related to growth, immunity and antioxidant system in common carp (*Cyprinus carpio*) intestine. *Annals of Animal Science*, 20, 1441-1452.

117. Safari, R., Hoseinifar, S.H., Imanpour, M.R., Mazandarani, M., Sanchouli, H. & Paolucci, M. (2020b) Effects of dietary polyphenols on mucosal and humoral immune responses, antioxidant defense and growth gene expression in beluga sturgeon (*Huso huso*). *Aquaculture*, 528, 735494.
118. Tippayadara, N., Dawood, M.A., Krutmuang, P., Hoseinifar, S.H., Doan, H.V. & Paolucci, M. (2021) Replacement of fish meal by Black soldier fly (*Hermetia illucens*) larvae meal: effects on growth, haematology, and skin mucus immunity of Nile Tilapia, *Oreochromis niloticus*. *Animals*, 11, 193.
119. Van Doan, H., Hoseinifar, S.H., Harikrishnan, R., Khamlor, T., Punyatong, M., Tapingkae, W., Yousefi, M., Palma, J. & El-Haroun, E. (2021) Impacts of pineapple peel powder on growth performance, innate immunity, disease resistance, and relative immune gene expression of Nile tilapia, *Oreochromis niloticus*. *Fish & Shellfish Immunology*, 114, 311-319.
120. Van Doan, H., Lumsangkul, C., Hoseinifar, S.H., Harikrishnan, R., Balasundaram, C. & Jaturasitha, S. (2021) Effects of coffee silverskin on growth performance, immune response, and disease resistance of Nile tilapia culture under biofloc system. *Aquaculture*, 736995.
121. Van Doan, H., Lumsangkul, C., Hoseinifar, S.H., Tongsir, S., Chitmanat, C., Musthafa, M.S., El-Haroun, E. & Ringo, E. (2021c) Modulation of growth, innate immunity, and disease resistance of Nile tilapia (*Oreochromis niloticus*) culture under biofloc system by supplementing pineapple peel powder and *Lactobacillus plantarum*. *Fish & Shellfish Immunology*.
122. Yousefi, M., Abtahi, B., Adineh, H., Hoseinifar, S.H., Taheri Mirghaed, A., Paolucci, M. & Van Doan, H. (2021a) Effects of dietary arginine supplementation on cytokine-and antioxidant-related gene expressions in common carp (*Cyprinus carpio*) fingerling during ammonia toxicity. *Aquaculture Research*, 52, 2751-2758.
123. Yousefi, M., Adineh, H., Reverter, M., Hamidi, M.K., Vatnikov, Y.A., Kulikov, E.V., Hoseinifar, S.H. & Van Doan, H. (2021b) Protective effects of black seed (*Nigella sativa*) diet supplementation in common carp (*Cyprinus carpio*) against immune depression, oxidative stress and metabolism dysfunction induced by glyphosate. *Fish & Shellfish Immunology*, 109, 12-19.
124. Yousefi, M., Farsani, M.N., Ghafarifarsani, H., Hoseinifar, S.H. & Van Doan, H. (2021c) The effects of dietary supplementation of mistletoe (*Viscum album*) extract on the growth performance, antioxidant, and innate, immune responses of rainbow trout (*Oncorhynchus mykiss*). *Aquaculture*, 536, 736385.
125. Yousefi, M., Ghafarifarsani, H., Hoseinifar, S.H., Rashidian, G. & Van Doan, H. (2021d) Effects of dietary marjoram, *Origanum majorana* extract on growth performance, hematological, antioxidant, humoral and mucosal immune responses, and resistance of common carp, *Cyprinus carpio* against *Aeromonas hydrophila*. *Fish & Shellfish Immunology*, 108, 127-133.
126. Zhang, H., Ran, C., Ding, Q., Hoseinifar, S.H., Xie, M., Zhang, Z., Yang, Y., Olsen, R.E., Gatlin, D.M., Ringø, E. and Zhou, Z. 2020. Progress in mechanism behind gastrointestinal mucosa barrier damage in teleost fish. *Reviews in Fish Biology and Fisheries*,
127. Ahmadifar, E., Hoseinifar, S.H., Adineh, H., Moghadam, M.S., Dawood, M.A., 2020. Assessing the impact of purslane (*Portulaca oleracea* L.) on growth performance, anti-oxidative, and immune activities in grass carp (*Ctenopharyngodon idella*). *Annals of Animal Science*. 1.
128. Ashour, M., Mabrouk, M.M., Ayoub, H.F., El-Feky, M.M., Zaki, S.Z., Hoseinifar, S.H., Rossi, W., Van Doan, H., El-Haroun, E., Goda, A.M.-S., 2020. Effect of dietary seaweed extract supplementation on growth, feed utilization, hematological indices, and non-specific immunity of Nile Tilapia, *Oreochromis niloticus* challenged with *Aeromonas hydrophila*. *Journal of Applied Phycology*. 32, 3467-3479.
129. Ghafarifarsani, H., Rashidian, G., Bagheri, T., Hoseinifar, S.H., Van Doan, H., 2020. Study on growth enhancement and the protective effects of dietary prebiotic inulin on immunity responses of rainbow trout (*Oncorhynchus mykiss*) fry infected with *Aeromonas hydrophila*. *Annals of Animal Science*. 1.
130. Harikrishnan, R., Thamizharasan, S., Devi, G., Van Doan, H., Kumar, T.T.A., Hoseinifar, S.H., Balasundaram, C.,

2020. Dried lemon peel enriched diet improves antioxidant activity, immune response and modulates immuno-antioxidant genes in *Labeo rohita* against *Aeromonas sorbia*. *Fish & Shellfish Immunology*. 106, 675-684.
- 131.Hoseini, S.M., Yousefi, M., Mirghaed, A.T., Paray, B.A., Hoseinifar, S.H., Van Doan, H., 2020. Effects of rearing density and dietary tryptophan supplementation on intestinal immune and antioxidant responses in rainbow trout (*Oncorhynchus mykiss*). *Aquaculture*, 735537.
- 132.Hoseinifar, S.H., Yousefi, S., Van Doan, H., Ashouri, G., Gioacchini, G., Maradonna, F., Carnevali, O., 2020a. Oxidative Stress and Antioxidant Defense in Fish: The Implications of Probiotic, Prebiotic, and Synbiotics. *Reviews in Fisheries Science & Aquaculture*, 1-20.
- 133.Hoseinifar, S.H., Jahazi, M.A., Mohseni, R., Raeisi, M., Bayani, M., Mazandarani, M., Yousefi, M., Van Doan, H., Mozanzadeh, M.T., 2020b. Effects of dietary fern (*Adiantum capillus-veneris*) leaves powder on serum and mucus antioxidant defence, immunological responses, antimicrobial activity and growth performance of common carp (*Cyprinus carpio*) juveniles. *Fish & Shellfish Immunology*. 106, 959-966.
- 134.Latif, M., Faheem, M., Hoseinifar, S.H., Van Doan, H., 2020. Protective efficacy of *Nigella sativa* seeds against diethyl phthalate induced growth retardation, oxidative stress and Histo-biochemical damages in *Labeo rohita*. *Aquaculture*, 736065.
- 135.Mirghaed, A.T., Hoseini, S.M., Hoseinifar, S.H., Van Doan, H., 2020. Effects of dietary thyme (*Zataria multiflora*) extract on antioxidant and immunological responses and immune-related gene expression of rainbow trout (*Oncorhynchus mykiss*) juveniles. *Fish & Shellfish Immunology*. 106, 502-509.
- 136.Nekoubin, H., Hajimoradloo, A., Hoseinifar, S.H., 2020. Effects of apple cider vinegar on growth performance and non-specific immune parameters of skin mucus in common carp (*Cyprinus carpio*) fingerlings. *International Journal of Aquatic Biology*. 8, 311-316.
- 137.Van Doan, H., Hoseinifar, S.H., Hung, T.Q., Lumsangkul, C., Jaturasitha, S., El-Haroun, E., Paolucci, M., 2020b. Dietary inclusion of chestnut (*Castanea sativa*) polyphenols to Nile tilapia reared in biofloc technology: Impacts on growth, immunity, and disease resistance against *Streptococcus agalactiae*. *Fish & Shellfish Immunology*. 105, 319-326.
- 138.Van Doan, H., Lumsangkul, C., Hoseinifar, S.H., Hung, T.Q., Stejskal, V., Ringø, E., Dawood, M.A., Esteban, M.Á., 2020c. Administration of watermelon rind powder to Nile tilapia (*Oreochromis niloticus*) culture under biofloc system: Effect on growth performance, innate immune response, and disease resistance. *Aquaculture*, 735574.
- 139.Yousefi, M., Vatnikov, Y.A., Kulikov, E.V., Ahmadifar, E., Mirghaed, A.T., Hoseinifar, S.H., Van Doan, H., 2020a. Effects of dietary *Hibiscus sabdariffa* supplementation on biochemical responses and inflammatory-related genes expression of rainbow trout, *Oncorhynchus mykiss*, to ammonia toxicity. *Aquaculture*, 736095.
- 140.Yousefi, S., Shokri, M.M., Noveirian, H.A., Hoseinifar, S.H., 2020b. Effects of dietary yeast cell wall on biochemical indices, serum and skin mucus immune responses, oxidative status and resistance against *Aeromonas hydrophila* in juvenile Persian sturgeon (*Acipenser persicus*). *Fish & Shellfish Immunology*. 106, 464-472.
- 141.Ali, M., Soltanian, S., Mirghaed, A.T., Akhlaghi, M., Hoseinifar, S.H. & Esmailnejad, A. (2020) The effect of oral administration of lactic acid bacteria isolated from kefir on intestinal microbiota, growth performance and survival in juvenile rainbow trout, *Oncorhynchus mykiss*. *International Journal of Aquatic Biology*, 8, 35-49.
- 142.Hoseini, S.M., Mirghaed, A.T., Paray, B.A., Hoseinifar, S.H. & Van Doan, H. (2020) Effects of dietary menthol on growth performance and antioxidant, immunological and biochemical responses of rainbow trout (*Oncorhynchus mykiss*). *Aquaculture*, 735260.
- 143.Hoseinifar, S.H., Shakouri, M., Yousefi, S., Van Doan, H., Shafiei, S., Yousefi, M., Mazandarani, M., Mozanzadeh, T., Tulino, M.G. & Faggio, C. (2020) Humoral and skin mucosal immune parameters, intestinal immune related genes expression and antioxidant defense in rainbow trout (*Oncorhynchus mykiss*) fed olive (*Olea europea* L.) waste. *Fish & Shellfish Immunology*, 100, 171-178.
- 144.Hosseini, S.M., Hoseinifar, S.H., Mazandarani, M., Paknejad, H., Van Doan, H. & El-Haroun, E. (2020) The potential benefits of orange peels derived pectin on serum and skin mucus immune parameters, antioxidant defence and growth performance in common carp (*Cyprinus carpio*). *Fish & Shellfish Immunology*. 103,17-22

145. Paray, B.A., Hoseini, S.M., Hoseinifar, S.H. & Van Doan, H. (2020) Effects of dietary oak (*Quercus castaneifolia*) leaf extract on growth, antioxidant, and immune characteristics and responses to crowding stress in common carp (*Cyprinus carpio*). *Aquaculture*, 735276.
146. Rajabiesterabadi, H., Hoseini, S.M., Fazelan, Z., Hoseinifar, S.H. & Doan, H.V. (2020) Effects of dietary turmeric administration on stress, immune, antioxidant and inflammatory responses of common carp (*Cyprinus carpio*) during copper exposure. *Aquaculture Nutrition*. <https://doi.org/10.1111/anu.13071>
147. Ringø, E., Van Doan, H., Lee, S.H., Soltani, M., Hoseinifar, S.H., Harikrishnan, R. & Song, S.K. (2020) Probiotics, lactic acid bacteria and bacilli: interesting supplementation for aquaculture. *Journal of Applied Microbiology*. doi: 10.1111/jam.14628.
148. Yousefi, M., Vatnikov, Y.A., Kulikov, E.V., Plushikov, V.G., Drukovsky, S.G., Hoseinifar, S.H. & Van Doan, H. (2020) The protective effects of dietary garlic on common carp (*Cyprinus carpio*) exposed to ambient ammonia toxicity. *Aquaculture*, 735400.
149. Hoseinifar, S.H., Sun, Y., Zhou, Z., Van Doan, H. Davies, S.J., and Harikrishnan, R. 2018. Boosting immune function and diseases bio-control through environment-friendly and sustainable approaches in finfish aquaculture: herbal therapy scenarios. *Reviews in Fisheries Science & Aquaculture*,
150. Fazelan, Z., Hoseini, S.M., Yousefi, M., Khalili, M., Hoseinifar, S.H. & Van Doan, H. (2020) Effects of dietary eucalyptol administration on antioxidant and inflammatory genes in common carp (*Cyprinus carpio*) exposed to ambient copper. *Aquaculture*, 734988.
151. Hoseini, S.M., Khalili, M., Rajabiesterabadi, H., Hoseinifar, S.H. & Van Doan, H. (2020) Effects of dietary monoterpene, myrcene, administration on immune-and health-related genes expression in common carp gill following exposure to copper sulfate. *Fish & Shellfish Immunology*.
152. Hoseinifar, S.H., Shakouri, M., Van Doan, H., Shafiei, S., Yousefi, M., Raeisi, M., Yousefi, S., Harikrishnan, R. & Reverter, M. (2020) Dietary supplementation of lemon verbena (*Aloysia citrodora*) improved immunity, immune-related genes expression and antioxidant enzymes in rainbow trout (*Oncorhynchus mykiss*). *Fish & Shellfish Immunology*.
153. Mohammadi, G., Rashidian, G., Hoseinifar, S.H., Naserabad, S.S. & Van Doan, H. (2020) Ginger (*Zingiber officinale*) extract affects growth performance, body composition, haematology, serum and mucosal immune parameters in common carp (*Cyprinus carpio*). *Fish & Shellfish Immunology*.
154. Srichaiyo, N., Tongsir, S., Hoseinifar, S.H., Dawood, M.A., Esteban, M.Á., Ringø, E. & Van Doan, H. (2020) The effect of fishwort (*Houttuynia cordata*) on skin mucosal, serum immunities, and growth performance of Nile tilapia. *Fish & Shellfish Immunology*.
155. Van Doan, H., Hoseinifar, S.H., Jaturasitha, S., Dawood, M.A. & Harikrishnan, R. (2020) The effects of berberine powder supplementation on growth performance, skin mucus immune response, serum immunity, and disease resistance of Nile tilapia (*Oreochromis niloticus*) fingerlings. *Aquaculture*, 734927.
156. Ahmadifar, E., Dawood, M.A., Moghadam, M.S., Sheikhzadeh, N., Hoseinifar, S.H. & Musthafa, M.S. 2019. Modulation of immune parameters and antioxidant defense in zebrafish (*Danio rerio*) using dietary apple cider vinegar. *Aquaculture*, 513, 734412.
157. Tarkhani, R., Imani, A., Hoseinifar, S.H., Ashayerizadeh, O., Moghanlou, K.S., Manaffar, R., Van Doan, H. & Reverter, M. (2019) Comparative study of host-associated and commercial probiotic effects on serum and mucosal immune parameters, intestinal microbiota, digestive enzymes activity and growth performance of roach (*Rutilus rutilus caspicus*) fingerlings. *Fish & shellfish immunology*
158. Jahazi, M.A., Hoseinifar, S.H., Jafari, V., Hajimoradloo, A., Van Doan, H. & Paolucci, M. (2020) Dietary supplementation of polyphenols positively affects the innate immune response, oxidative status, and growth performance of common carp, *Cyprinus carpio* L. *Aquaculture*, 517, 734709.
159. Alam, M.S., Liang, X.-F., Liu, L., He, S., Kuang, Y., Hoseinifar, S.H. & Dawar, F.U. 2019. Growth and Metabolic Response of Chinese Perch to Different Dietary Protein-to-Energy Ratios in Artificial Diets. *International Journal of Molecular Sciences*, 20, 5983.

- 160.Hoseini, S.M., Rajabiesterabadi, H., Khalili, M., Yousefi, M., Hoseinifar, S.H. & Van Doan, H. 2019. Antioxidant and immune responses of common carp (*Cyprinus carpio*) anesthetized by cineole: Effects of anesthetic concentration. *Aquaculture*, 734680.
- 161.Hoseinifar, S.H., Jahazi, A., Nikdehghan, N., Van Doan, H., Volpe, M.G. & Paolucci, M. 2019. Effects of dietary polyphenols from agricultural by-products on mucosal and humoral immune and antioxidant responses of convict cichlid (*Amatitlania nigrofasciata*). *Aquaculture*, 734790.
- 162.Hoseinifar, S.H., Van Doan, H. & Ashouri, G. 2019b. Galactooligosaccharide effects as prebiotic on intestinal microbiota of different fish species. *RUDN Journal of Agronomy and Animal Industries*, 14, 266-278.
- 163.Fabbrocini, A., Volpe, M.G., Hoseinifar, S.H., Siano, F., Coccia, E., Scordella, G., Licchelli, C., D'Adamo, R. & Paolucci, M. 2019. Paracentrotus lividus roe enhancement by a short-time rearing in offshore cages using two agar-based experimental feed. *International Journal of Aquatic Biology*, 7, 155-165.
- 164.Karimi, M., Paknejad, H., Hoseinifar, S.H., Shabani, A., Torfi, M., 2019. The effects of dietary raffinose on skin mucus immune parameters and protein profile, serum non-specific immune parameters and immune related genes expression in common carp (*Cyprinus carpio* L.). *Aquaculture*
- 165.Ashouri, GH., Mahboobi Sofiani, N., Hoseinifar, S.H., Torfi, M., Mani, A., Khosravi, A., Carnevali, O., 2019. Compensatory growth, plasma hormones and metabolites in juvenile Siberian sturgeon (*Acipenser baerii*, Brandt 1869) subjected to fasting and re-feeding. *Aquaculture Nutrition*.
- 166.Ashouri, GH., Mahboobi Sofiani, N., Hoseinifar, S.H., Jalali, A.H., Morshedi, V., Valinasab, T., Bagheri, D., Van Doan, H., Torfi, M., Carnevali, O., 2019. Influence of dietary sodium alginate and *Pediococcus acidilactici* on liver antioxidant status, intestinal lysozyme gene expression, histomorphology, microbiota, and digestive enzymes activity, in Asian sea bass (*Lates calcalifer*) juveniles. *Aquaculture*.
- 167.Tarkhani, R., Imani, A., Hoseinifar, S.H., Ashayerizadeh, O., Sarvi, K., Manaffar, R., Van Doan, H., Reverter, M., 2019. The effects of host-associated *Enterococcus faecium* CGMCC1. 2136 on serum immune parameters, digestive enzymes activity and growth performance of the Caspian roach (*Rutilus rutilus caspicus*) fingerlings. *Aquaculture*.
- 168.Ahmadifar, E., Moghadam, M.S., Dawood, M.A., Hoseinifar, S.H., 2019. *Lactobacillus fermentum* and/or ferulic acid improved the immune responses, antioxidative defence and resistance against *Aeromonas hydrophila* in common carp (*Cyprinus carpio*) fingerlings. *Fish & shellfish immunology*.
- 169.Ezatrahimi, N., Soltanian, S., Akhlaghi, M., Hoseinifar, S.H., 2019. Effects of florfenicol on skin mucus immune parameters and immune related genes expression in zebrafish (*Danio rerio*). *International Journal of Aquatic Biology*, 7, 211-217.
- 170.Harikrishnan, R., Devi, G., Paray, B.A., Al-Sadoon, M.K., Hoseinifar, S.H., Gokul, E., 2019. Study the immunomodulation of anthracenedione in striped dwarf catfish, *Mystus vittatus* against pathogenic bacteria, *Aeromonas hydrophila*. *Fish & shellfish immunology*.
- 171.Hoseinifar, S.H., Zou, H.K., Van Doan, H., Harikrishnan, R., Yousefi, M., Paknejad, H., Ahmadifar, E., 2019. Can dietary jujube (*Ziziphus jujuba* Mill.) fruit extract alter cutaneous mucosal immunity, immune related genes expression in skin and growth performance of common carp (*Cyprinus carpio*)? *Fish & shellfish immunology*, 94, 705-710.
- 172.Rufchaei, R., Mirvaghefi, A., Hoseinifar, S.H., Valipour, A., Nedaei, S., 2019. Effects of dietary administration of water hyacinth (*Eichhornia crassipes*) leaves extracts on innate immune parameters, antioxidant defence and disease resistance in rainbow trout (*Oncorhynchus mykiss*). *Aquaculture*, 734533.
- 173.Srichaiyo, N., Tongsiri, S., Hoseinifar, S.H., Dawood, M.A., Jaturasitha, S., Esteban, M.Á., Ringø, E., Van Doan, H., 2020. The effects gotu kola (*Centella asiatica*) powder on growth performance, skin mucus, and serum immunity of Nile tilapia (*Oreochromis niloticus*) fingerlings. *Aquaculture Reports*, 16, 100239.
- 174.Lieke, T., Meinelt, T., Hoseinifar, S.H., Pan, B., Straus, D.L. and Steinberg, C.E. (2019), Sustainable aquaculture requires environmental-friendly treatment strategies for fish diseases. *Reviews in Aquaculture*, doi:10.1111/raq.12365
- 175.Rufchaei, R., Hoseinifar, S.H., Nedaei, S., Bagheri, T., Ashouri, G. & Van Doan, H. (2019) Non-specific immune

- responses, stress resistance and growth performance of Caspian roach (*Rutilus caspicus*) fed diet supplemented with earthworm (*Eisenia foetida*) extract. *Aquaculture*, 734275.
176. Ahmadifar, E., Dawood, M.A., Shahriari Moghadam, M., Sheikhzadeh, N., Hoseinifar, S.H., Saiyad Musthafa, M. (2019) Modulation of immune parameters and antioxidant defense in zebrafish (*Danio rerio*) using dietary apple cider vinegar. *Aquaculture*,
177. Safari, R., Hoseinifar, S.H., Dadar, M., Sattari, M. & Rahbar, M. (2019) The effects of *Coriandrum sativum* L. as feed additive on mucosal immune parameters, antioxidant defence and, immune-related genes expression in zebrafish (*Danio rerio*). *Aquaculture Research*, 10.1111/are.14218.
178. Van Doan, H., Hoseinifar, S.H., Chitmanat, C., Jaturasitha, S., Paolucci, M., Ashouri, G., Dawood, M.A. & Esteban, M.Á. (2019a) The effects of Thai ginseng, *Boesenbergia rotunda* powder on mucosal and serum immunity, disease resistance, and growth performance of Nile tilapia (*Oreochromis niloticus*) fingerlings. *Aquaculture*, 10.1016/j.aquaculture.2019.734388.
179. Van Doan, H., Hoseinifar, S.H., Ringø, E., Ángeles Esteban, M., Dadar, M., Dawood, M.A. & Faggio, C. (2019b) Host-Associated Probiotics: A Key Factor in Sustainable Aquaculture. *Reviews in Fisheries Science & Aquaculture*, 10.1080/23308249.23302019.21643288.
180. Van Doan, H., Hoseinifar, S.H., Sringarm, K., Jaturasitha, S., Khamlor, T., Dawood, M.A., Esteban, M.Á., Soltani, M. & Musthafa, M.S. (2019c) Effects of elephant's foot (*Elephantopus scaber*) extract on growth performance, immune response, and disease resistance of Nile tilapia (*Oreochromis niloticus*) fingerlings. *Fish & Shellfish Immunology*, 93, 328-335.
181. Van Doan, H., Hoseinifar, S.H., Sringarm, K., Jaturasitha, S., Yuangsoi, B., Dawood, M.A., Esteban, M.Á., Ringø, E. & Faggio, C. (2019d) Effects of Assam tea extract on growth, skin mucus, serum immunity and disease resistance of Nile tilapia (*Oreochromis niloticus*) against *Streptococcus agalactiae*. *Fish & Shellfish Immunology*, 93, 428-435.
182. Javahery, S., Noori, A. & Hoseinifar, S.H. (2019) Growth performance, immune response, and digestive enzyme activity in Pacific white shrimp, *Penaeus vannamei* Boone, 1931, fed dietary microbial lysozyme. *Fish & Shellfish Immunology*, 92, 528-535.
183. Farsani, M.N., Hoseinifar, S.H., Rashidian, G., Farsani, H.G., Ashouri, G. & Van Doan, H. (2019) Dietary effects of *Coriandrum sativum* extract on growth performance, physiological and innate immune responses and resistance of rainbow trout (*Oncorhynchus mykiss*) against *Yersinia ruckeri*. *Fish & Shellfish Immunology*, 91, 233-240.
184. Hedayati, S.A., Farsani, H.G., Naserabad, S.S., Hoseinifar, S.H. & Van Doan, H. (2019) Protective effect of dietary vitamin E on immunological and biochemical induction through silver nanoparticles (AgNPs) inclusion in diet and silver salt (AgNO₃) exposure on Zebrafish (*Danio rerio*). *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, 222, 100-107.
185. Hoseini, S.M., Vatnikov, Y.A., Kulikov, E.V., Petrov, A.K., Hoseinifar, S.H. & Van Doan, H. (2019) Effects of dietary arginine supplementation on ureagenesis and amino acid metabolism in common carp (*Cyprinus carpio*) exposed to ambient ammonia. *Aquaculture*, 734209.
186. Shiry, N., Soltanian, S., Shomali, T., Paknejad, H. & Hoseinifar, S.H. (2019) Immunomodulatory effects of orally administrated florfenicol in rainbow trout (*Oncorhynchus mykiss*) following experimental challenge with streptococcosis/lactococcosis. *International Immunopharmacology*, 73, 236-245.
187. Soltani, M., Ghosh, K., Hoseinifar, S.H., Kumar, V., Lymbery, A.J., Roy, S. & Ringø, E. (2019) Genus bacillus, promising probiotics in aquaculture: Aquatic animal origin, bio-active components, bioremediation and efficacy in fish and shellfish. *Reviews in Fisheries Science & Aquaculture*, 27, 331-379.
188. Van Doan, H., Hoseinifar, S.H., Naraballobh, W., Jaturasitha, S., Tongsir, S., Chitmanat, C. & Ringø, E. (2019) Dietary inclusion of Orange peels derived pectin and *Lactobacillus plantarum* for Nile tilapia (*Oreochromis niloticus*) cultured under indoor biofloc systems. *Aquaculture*, 508, 98-105.
189. Van Doan, H., Hoseinifar, S.H., Tapingkae, W., Seel-audom, M., Jaturasitha, S., Dawood, M.A., Wongmaneeprateep, S., Thu, T.T.N. & Esteban, M.Á. (2019) Boosted Growth Performance, Mucosal and Serum Immunity, and Disease Resistance Nile Tilapia (*Oreochromis niloticus*) Fingerlings Using Corn-cob-Derived Xylooligosaccharide and

Lactobacillus plantarum CR1T5. Probiotics and Antimicrobial Proteins, 1-12.

190. Devi, G., Harikrishnan, R., Paray, B.A., Al-Sadoon, M.K., Hoseinifar, S.H. & Balasundaram, C. (2019) Effect of symbiotic supplemented diet on innate-adaptive immune response, cytokine gene regulation and antioxidant property in *Labeo rohita* against *Aeromonas hydrophila*. *Fish & Shellfish Immunology*, 89, 687-700.
191. Hoseinifar, S. H., Hossein, M., Paknejad, H., Safari, R., Jafar, A., Yousefi, M., & Mozanzadeh, M. T. (2019). Enhanced mucosal immune responses, immune related genes and growth performance in common carp (*Cyprinus carpio*) juveniles fed dietary *Pediococcus acidilactici* MA18/5M and raffinose. *Developmental & Comparative Immunology*, 94, 59-65. (Impact factor: 2.91).
192. Naderi Farsani, M., Bahrami Gorji, S., Hoseinifar, S.H., Rashidian, Gh, Van Doan, H. (2019). Combined and Singular Effects of Dietary PrimaLac® and Potassium Difformate (KDF) on Growth Performance and Some Physiological Parameters of Rainbow Trout (*Oncorhynchus mykiss*). *Probiotics and Antimicrobial Proteins*, DOI: 10.1007/s12602-019-9523-2
193. Ghelichpour, M., Mirghaed, A. T., Hoseinifar, S. H., Khalili, M., Yousefi, M., Van Doan, H., & Jimenez, A. P. (2019). Expression of immune, antioxidant and stress related genes in different organs of common carp exposed to indoxacarb. *Aquatic Toxicology*, 208, 208-216. (Impact factor: 3.88).
194. Hoseini, S. M., Yousefi, M., Hoseinifar, S. H., & Van Doan, H. (2019). Effects of dietary arginine supplementation on growth, biochemical, and immunological responses of common carp (*Cyprinus carpio* L.), stressed by stocking density. *Aquaculture*, 503, 425-459. (Impact factor: 2.50).
195. Valipour, A., Nedaei, S., Noori, A., Khanipour, A. A., & Hoseinifar, S. H. (2019). Dietary *Lactobacillus plantarum* affected on some immune parameters, air-exposure stress response, intestinal microbiota, digestive enzyme activity and performance of narrow clawed crayfish (*Astacus leptodactylus*, Eschscholtz). *Aquaculture*, 504, 121-130. (Impact factor: 2.50).
196. Hoseini, S. M., Yousefi, M., Hoseinifar, S. H., & Van Doan, H. (2019). Cytokines' gene expression, humoral immune and biochemical responses of common carp (*Cyprinus carpio*, Linnaeus, 1758) to transportation density and recovery in brackish water. *Aquaculture*, 34-21.
197. Abdel-Tawwab, M., Monier, M. N., Hoseinifar, S. H., & Faggio, C. (2019). Fish response to hypoxia stress: growth, physiological, and immunological biomarkers. *Fish Physiology and Biochemistry*, 1-17. (Impact factor: 1.75).
198. Devi, G., Harikrishnan, R., Paray, B. A., Al-Sadoon, M. K., Hoseinifar, S. H., & Balasundaram, C. (2019). Effects of aloe-emodin on innate immunity, antioxidant and immune cytokines mechanisms in the head kidney leucocytes of *Labeo rohita* against *Aphanomyces invadans*. *Fish & Shellfish Immunology*, 87, 669-678
199. Devi, G., Harikrishnan, R., Paray, B. A., Al-Sadoon, M. K., Hoseinifar, S. H., & Balasundaram, C. (2019). Comparative immunostimulatory effect of probiotics and prebiotics in *Channa punctatus* against *Aphanomyces invadans*. *Fish & Shellfish Immunology*, 86, 965-973. (Impact factor: 3.02).
200. Hoseinifar, S. H., Zou, H. K., Paknejad, H., Hajimoradloo, A., & Van Doan, H. (2018). Effects of dietary white-button mushroom powder on mucosal immunity, antioxidant defence, and growth of common carp (*Cyprinus carpio*). *Aquaculture*, 501, 448-454. (Impact factor: 2.50).
201. Hoseinifar, S. H., Sohrabi, A., Paknejad, H., Jafari, V., Paolucci, M., & Van Doan, H. (2018). Enrichment of common carp (*Cyprinus carpio*) fingerlings diet with *Psidium guajava*: The effects on cutaneous mucosal and serum immune parameters and immune related genes expression. *Fish & Shellfish Immunology*, 86, 688-694. (Impact factor: 3.02).
202. Shakoori, M., Hoseinifar, S. H., Paknejad, H., Jafari, V., Safari, R., Van Doan, H., & Mozanzadeh, M. T. (2018). Enrichment of rainbow trout (*Oncorhynchus mykiss*) fingerlings diet with microbial lysozyme: Effects on growth performance, serum and skin mucus immune parameters. *Fish & Shellfish Immunology* 86, 480-485. (Impact factor: 3.02).
203. Nedaei, S., Noori, A., Valipour, A., Khanipour, A. A., & Hoseinifar, S. H. (2019). Effects of dietary galactooligosaccharide enriched commercial prebiotic on growth performance, innate immune response, stress resistance, intestinal microbiota and digestive enzyme activity in Narrow clawed crayfish (*Astacus leptodactylus* Eschscholtz, 1823). *Aquaculture*, 499, 80-89.

- 204.Hedayati, S.A., Bagheri, T., Hoseinifar, S.H., Van Doan, H., 2018. Growth performances and hemato-immunological responses of common carp (*Cyprinus carpio* Linnaeus, 1758) to fermented *Aspergillus oryzae*. Iranian Journal of Fisheries Science, DOI: 10.22092/ijfs.2018.117403 (Impact factor: 0.44)
- 205.Hoseinifar, S.H., Sun, Y., Wang, A. and Zhou, Z., 2018. Probiotics as means of diseases control in aquaculture, A Review of current knowledge and future perspectives. *Frontiers in Microbiology*, 9, 2429. (Impact factor: 4.01)
- 206.Safari, R., Hoseinifar, S.H., Nejadmoghaddam, M., Dadar, M., 2018. Combined Administration of White Button Mushroom, *Agaricus bisporus* (Agaricomycetes) and *Lactobacillus casei* Modulated Immune Related Genes Expression, Mucosal and Serum Immune Parameters in Goldfish (*Carassius auratus*) Model. *International Journal of Medicinal Mushrooms*; Accepted (Impact factor: 1.02).
- 207.Ringø, E., Hoseinifar, S.H., Ghosh, K., Van Doan, H., Beck, B.K., Song, S., 2018. Lactic acid bacteria in finfish—an update. *Frontiers in Microbiology* 9, 1-37. (Impact factor: 4.01)
- 208.Musthafa, S.M., Asgari, S.M., Elumalai, P., Hoseinifar, S.H., Van Doan, H., 2018. Protective efficacy of Shilajit enriched diet on growth performance and immune resistance against *Aeromonas hydrophila* in *Oreochromis mossambicus*. *Fish & Shellfish Immunology*; 83, 232-237 (Impact factor: 3.02).
- 209.Hoseinifar, S.H., Yousefi, S., Capillo, G., Paknejad, H., Khalili, M., Van Doan, H., Spanò, N. and Faggio, C., 2018. Mucosal immune parameters, immune and antioxidant defence related genes expression and growth performance of zebrafish (*Danio rerio*) fed on *Gracilaria gracilis* powder. *Fish & Shellfish Immunology*; Accepted (Impact factor: 3.02).
- 210.Van Doan, H., Hoseinifar, S.H., Faggio, C., Chitmanat, C., Mai, N.T., Jaturasitha, S., Ringø, E., 2018. Effects of corn cob derived xylooligosaccharide on innate immune response, disease resistance, and growth performance in Nile tilapia (*Oreochromis niloticus*) fingerlings. *Aquaculture*; 495, 786-793 (Impact factor: 2.570)
- 211.Hoseini, S.M., Hoseinifar, S.H., Van Doan, H., 2018. Effect of dietary eucalyptol on stress markers, enzyme activities and immune indicators in serum and haematological characteristics of common carp (*Cyprinus carpio*) exposed to toxic concentration of ambient copper. *Aquaculture research*; 493, 107-112. (Impact factor: 1.60).
- 212.Safari, R., Hoseinifar, S.H., Dadar, M., Khalili, M., 2018. Powder of the White Bottom Mushroom, *Agaricus bisporus* (Agaricomycetes), Improved Immunomodulatory and Health-Promoting Effects of *Lactobacillus casei* in Zebrafish (*Danio rerio*). *International Journal of Medicinal Mushrooms*; 20(7):695-704 (Impact factor: 1.02).
- 213.Yousefi, M., Hoseinifar, S.H., 2018. Protective effects of prebiotic in zebrafish, *Danio rerio*, under experimental exposure to Chlorpyrifos. *International Journal of Aquatic Biology*; 6 (2), 49-54 (ISC)
- 214.Shakoori, M., Hoseinifar, S.H., Paknejad, H., Jafari, V., Safari, R., 2018. The effects of dietary lysozyme on growth performance and haematological indices of rainbow trout (*Oncorhynchus mykiss*) fingerling. *International Journal of Aquatic Biology*; 6 (1), 31-36. (ISC)
- 215.Yousefi, M., Hoseinifar, S.H., Ghelichpour, M., Hoseini, S.M., 2018. Anesthetic efficacy and biochemical effects of citronellal and linalool in common carp (*Cyprinus carpio* Linnaeus, 1758) juveniles. *Aquaculture*; 493, 107-112. (Impact factor: 2.570)
- 216.Soltanian, S., Hoseinifar, S.H., Gholamhosseini, A., 2018. Modulation of rainbow trout (*Oncorhynchus mykiss*) cutaneous mucosal immune responses following anesthesia: A comparative study on different anesthetic agents. *Fish & Shellfish Immunology*; 80:319-324 (Impact factor: 3.02).
- 217.Nawaz, A., Javid, A., Irshad, S., Hoseinifar, S.H., Xiong, H., 2018. The functionality of prebiotics as immunostimulant: Evidences from trials on terrestrial and aquatic animals. *Fish & Shellfish Immunology*; 76:272-278 (Impact factor: 3.02).
- 218.Hoseinifar, S.H., Khodadadian Zou, H., Kolangi, H., Van Doan, H., Ahmadifard, E., 2018. Non-specific immune responses and intestinal immunity of common carp (*Cyprinus carpio*) fed Jujube (*Ziziphus jujube*) fruit extract. *Aquaculture Research*; 49(9): 2995-3003 (Impact factor: 1.60).
- 219.Van Doan, H., Hoseinifar, S.H., Elumalai, P., Tongsir, S., Chitmanat, C., Jaturasitha, S., Doolgindachbaporn, S., 2018. Effects of orange peels derived pectin on innate immune response, disease resistance and growth performance

- of Nile tilapia (*Oreochromis niloticus*) cultured under indoor biofloc system. *Fish & Shellfish Immunology*; 80:56-62 (Impact factor: 3.02)
220. Ashouri, G., Mahboobi Soofiani, N., Hoseinifar, S.H., Jalali, S.A.H., Morshedi, V., Van Doan, H. & Torfi Mozanzadeh, M., 2018 Combined effects of dietary low molecular weight sodium alginate and *Pediococcus acidilactici* MA18/5M on growth performance, haematological and innate immune responses of Asian sea bass (*Lateolabrax niloticus*) juveniles. *Fish & Shellfish Immunology*, 79, 34-41. (Impact factor: 3.02).
221. Van Doan, H., Hoseinifar, S.H., Khanongnuch, C., Kanpiengjai, A., Unban, K., Van Kim, V., Srichaiyo, S., 2018. Host-associated probiotics boosted mucosal and serum immunity, disease resistance and growth performance of Nile tilapia (*Oreochromis niloticus*). *Aquaculture*; 491, 94-100 (Impact factor: 2.570)
222. Li, X., Ringø, E., Hoseinifar, S.H., Lauzon, H., Birkbeck, H., Yang, D., 2018. Adherence and colonisation of microorganisms in the fish gastrointestinal tract. *Reviews in Aquaculture*; Accepted <https://doi.org/10.1111/raq.12248> (Impact factor: 4.76).
223. Sadat Hosseini Madani, N., Adorian, T.J., Ghafari Farsani, H., Hoseinifar, S.H., 2018. The effects of dietary probiotic *Bacilli* (*Bacillus subtilis* and *Bacillus licheniformis*) on growth performance, feed efficiency, body composition and immune parameters of whiteleg shrimp (*Litopenaeus vannamei*) postlarvae. *Aquaculture Research*; 49 (5), 1926-1933; (Impact factor: 1.60).
224. Taheri Mirghaed, A., Yarahmadi, P., Hoseinifar, S.H., Tahmasbi, D., Gheisvandi, N., Ghaedi, A., 2018. The effects singular or combined administration of fermentable fiber and probiotic on mucosal immune parameters, digestive enzyme activity, gut microbiota and growth performance of Caspian white fish (*Rutilus frisii kutum*) fingerlings. *Fish & Shellfish Immunology*; 77, 194-199 (Impact factor: 3.02).
225. Amiri, O., Kolangi Miandare, H., Hoseinifar, S.H., Shabani, A., Safari, R., 2018. Skin mucus protein profile, immune parameters, immune related genes expression and growth performance of rainbow trout (*Oncorhynchus mykiss*) fed white bottom mushroom (*Agaricus bisporus*) powder. *International Journal of Medicinal Mushrooms*; 20(4):337-347 (Impact factor: 1.02)
226. Romano, N., Kanmani, N., Ebrahimi, M., Chong, C.M., Hoseinifar, S.H., Kumar, V., Nurul Amin, S.M., 2018. Combination of dietary pre-gelatinized starch and isomaltooligosaccharide improved pellet characteristics and subsequent feeding efficiencies and physiology in African catfish, *Clarias gariepinus*, juveniles. *Aquaculture*; 484:293-302 (Impact factor: 2.570)
227. Yousefi, S., Hoseinifar, S.H., Paknejad, H., Hajimoradloo, A., 2018. The effects of dietary supplement of galactooligosaccharide on innate immunity, immune related genes expression and growth performance in zebrafish (*Danio rerio*). *Fish & Shellfish Immunology*; 73, 192-196 (Impact factor: 3.02). Doi: 10.1016/j.fsi.2017.12.022
228. Hoseinifar, S.H., Khodadadian Zou, H., Van Doan, H., Kolangi, H., Hoseini, M., 2018. Evaluation of some intestinal cytokines genes expression and serum innate immune parameters in common carp (*Cyprinus carpio*) fed dietary loquat (*Eriobotrya japonica*) leaf extract. *Aquaculture Research*; 49 (1), 120-127 00:1-8. <https://doi.org/10.1111/are.13440>
229. Mansouri Taei, Hajimoradloo, A., Hoseinifar, S.H., Ahmadvand, H., 2017. The effects of dietary Myrtle (*Myrtus communis* L.) supplementations on growth performance and some innate immune responses in rainbow trout (*Oncorhynchus mykiss*). *International Journal of Aquatic Biology*. 5 (4), 252-259 (ISC)
230. Modanloo, M., Soltanian, S., Akhlaghi, M., Hoseinifar, S.H., 2017. The effects of single or combined administration of galactooligosaccharide and *Pediococcus acidilactici* on cutaneous mucus immune parameters, humoral immune responses and immune related genes expression in common carp (*Cyprinus carpio*) fingerlings. *Fish & Shellfish Immunology*; 70, 391-397 (Impact factor: 3.02).
231. Van Doan, H., Hoseinifar, S.H., Dawood, M.O., Chitmanat, C., Tayyamat, K., 2017. Effects of *Cordyceps militaris* spent mushroom substrate and *Lactobacillus plantarum* on mucosal, serum immunology and growth performance of Nile tilapia (*Oreochromis niloticus*). *Fish & Shellfish Immunology*; 67, 78-85 (Impact factor: 3.02).
232. Hoseinifar, S.H., Khodadadian Zou, H., Kolangi, H., Van Doan, H., Romano, N., Dadar, M., 2017. Enrichment of common carp (*Cyprinus carpio*) diet with Medlar (*Mespilus germanica*) leaf extract: Effects on skin mucosal immunity and growth performance. *Fish & Shellfish Immunology*; 67, 346-352 (Impact factor: 3.02).

- 233.Safari, R., Hoseinifar, S.H., Nejadmoghadam, Sh., 2017. Apple cider vinegar boosted immunomodulatory and health promoting effects of *Lactobacillus casei* in common carp (*Cyprinus carpio*). *Fish & Shellfish Immunology*; 67, 441-448 (Impact factor: 3.02).
- 234.Safari, R., Hoseinifar, S.H., Van Doan, H., Dadar. M., 2017. The effects of dietary Myrtle (*Myrtus communis*) on skin mucus immune parameters and mRNA levels of growth, antioxidant and immune related genes in zebrafish (*Danio rerio*). *Fish & Shellfish Immunology*; 66, 264-269 (Impact factor: 3.02).
- 235.Hoseinifar, S.H., Dadar, M., Ringø, E., 2017. Modulation of nutrient digestibility and digestive enzyme activities in aquatic animals: the functional feed additives scenario. *Aquaculture Research*; 48 (8), 3987-4000; (Impact factor: 1.60).
- 236.Mansouri Taei, Hajimoradloo, A., Hoseinifar, S.H., Ahmadvand, H., 2017. Dietary Myrtle (*Myrtus communis* L.) improved skin mucus non-specific immune parameters and bactericidal activity in rainbow trout (*Oncorhynchus mykiss*) fingerlings. *Fish & Shellfish Immunology*; 64, 320-324 (Impact factor: 3.02).
- 237.Ebrahimi, M., Daeman, H., Chong, C.M., Karami, A., Kumar, V., Hoseinifar, S.H., Romano, N., 2017. Comparing the effects of different dietary organic acids on the growth, intestinal short chain fatty acids, and liver histopathology of red hybrid tilapia (*Oreochromis* sp.) and potential use of these as preservatives. *Fish Physiology and Biochemistry*; 43 (4), 1195-1207 (Impact factor: 1.42).
- 238.Hoseinifar, S.H., Ahmadi, A., Raeisi, M., Van Doan, H., Khalili, M., Caipang, C.M., 2017. The study of antioxidant enzymes and immune-related genes expression in common carp (*Cyprinus carpio*) fingerlings fed different prebiotics. *Aquaculture Research*; 48 (11), 5447-5454; (Impact factor: 1.60).
- 239.Rufchaei, R., Hoseinifar, S.H., Mirzajani, A., Van Doan, H., 2017. Dietary administration of *Pontogammarus meoticus* extract affects immune responses, stress resistance, feed intake and growth performance of Caspian roach (*Rutilus caspicus*) fingerlings. *Fish & Shellfish Immunology*; 63, 196-200 (Impact factor: 3.02).
- 240.Van Doan, H., Hoseinifar, S.H., Tapingkae, W., Tongsiri, S., Khantavee, P., 2017. The effects of dietary kefir and low molecular weight sodium alginate on serum immune parameters, resistance against *Streptococcus agalactiae* and growth performance in Nile tilapia (*Oreochromis niloticus*). *Fish & Shellfish Immunology*; 62, 139-146 (Impact factor: 3.02)
- 241.Hoseinifar, S.H., Safari, R., Dadar, M., 2017. Dietary sodium propionate affects mucosal immune parameters, growth and appetite related genes expression: insights from zebrafish model. *General and Comparative Endocrinology*; 243, 78-83 DOI: 10.1016/j.ygcen.2016.11.008; (Impact factor: 2.72).
- 242.Hoseinifar, S.H., Ahmadi, A., Raeisi, M., Hosseini, S.M., Khalili, M., Bahrampour, N., 2017. Comparative study on immunomodulatory and growth enhancing effects of three prebiotics (galactooligosaccharide, fructooligosaccharide and inulin) in common carp (*Cyprinus carpio*). *Aquaculture research*; 48, 7, 3298–3307 doi: 10.1111/are.13156 (Impact factor: 1.60).
- 243.Safari, R., Hoseinifar, S.H., Nejadmoghadam, Sh., Khalili, M., 2017. Non-specific immune response, immune, antioxidant and growth related genes expression in common carp fed sodium propionate. *Aquaculture Research*; 48 (8), 4470-4478; (Impact factor: 1.60).
- 244.Hoseinifar, S.H*, Hosseini, S.M., Bagheri, D., 2017. Effects of galactooligosaccharide and *Pediococcus acidilactici* on antioxidant defence and disease resistance of rainbow trout, *Oncorhynchus mykiss*. *Annals of Animal Science*; 17 (1), 217-227 DOI: 10.1515/aoas-2016-0024. (Impact factor: 0.59).
- 245.Dadar, M., Vakharia, V.N., Hoseinifar, S.H., Salgado-Miranda, C., Rajabi Memari, H., 2016. Advances in aquaculture vaccines against fish pathogens: Global status and trends. *Reviews in Fisheries Science & Aquaculture*; 25,3, 184-217; (Impact factor: 1.14).
- 246.Hoseinifar, S.H., Sun, Y-Z., Caipang, C.M., 2017. Short chain fatty acids as feed supplements for sustainable aquaculture: an updated view. *Aquaculture Research*; 48, 4, 1380–1391; (Impact factor: 1.60).
- 247.Sharifian, M., Hajimoradloo, A., Ghorbani, R., Hoseinifar, S.H., 2017. Effects of dietary retinol acetate on growth performance, skin mucus immune responses and haematological parameters of Caspian roach (*Rutilus caspicus*). *Aquaculture Nutrition*; 23 (5), 893-898 DOI: 10.1111/anu.12456 (Impact factor: 1.51).

- 248.Hosseini, M., Kolangi, H., Hoseinifar, S.H., Yarahmadi, P., 2016. Dietary *Lactobacillus acidophilus* modulated skin mucus protein profile, immune and appetite gene expression in gold fish (*Carassius auratus gibelio*). *Fish & Shellfish Immunology*; 59, 149-154 (Impact factor: 3.02)
- 249.Hoseinifar, S.H., Zoheiri, F., Lazado, C., 2016. Dietary phytoimmunostimulant Persian hogweed (*Heracleum persicum*) has more remarkable impacts on skin mucus than on serum in common carp (*Cyprinus carpio*). *Fish & Shellfish Immunology*; 59, 77-82 DOI:10.1016/j.fsi.2016.10.025; (Impact factor: 3.02)
- 250.Van Doan, H., Hoseinifar, S.H., Tapingkae, W., Tongsir, S., Khamtavee, P., 2016. Combined administration of low molecular weight sodium alginate boosted immunomodulatory, disease resistance and growth enhancing effects of *Lactobacillus plantarum* in Nile tilapia (*Oreochromis niloticus*). *Fish & Shellfish Immunology*; 58, 678-685 DOI: 10.1016/j.fsi.2016.09.050 (Impact factor: 3.02)
- 251.Khodadian Zou, H., Hoseinifar, S.H., Kolangi Miandare, H., Hajimoradloo, A., 2016. *Agaricus bisporus* powder improved cutaneous mucosal and serum immune parameters and up-regulated intestinal cytokines gene expression in common carp (*Cyprinus carpio*) fingerlings. *Fish & Shellfish Immunology*; 58:380-386 DOI: 10.1016/j.fsi.2016.09.050 (Impact factor: 3.02)
- 252.Hoseinifar, S.H., Dadar, M., Khalili, M., Cerezuela, R., Esteban, M. Á., 2016. Effect of dietary supplementation of palm fruits extracts on the transcriptom of growth, antioxidant enzyme and immune related gene in common carp (*Cyprinus carpio*) fingerlings. *Aquaculture research*; Accepted; 48, 7, 3684–3692 DOI: 10.1111/are.13192 (Impact factor: 1.60).
- 253.Hoseinifar, S.H, Zoheiri, F., Rufchaei, R., Dadar, M., Ringø, E., 2016. Dietary galactooligosaccharide elicits positive effects on humoral immune response, skin mucus immune parameters and growth performance in Caspian white fish (*Rutilus frisii kutum*) fry. *Fish & Shellfish Immunology*; 55, 523-528. 10.1016/j.fsi.2016.08.001 (Impact factor: 3.02)
- 254.Hoseinifar, S.H, Zoheiri, F., Caipang, C.M., 2016. Dietary sodium propionate improved performance, mucosal and humoral immune responses in Caspian white fish (*Rutilus frisii kutum*) fry. *Fish & Shellfish Immunology*; 55, 523-528. 10.1016/j.fsi.2016.06.027. (Impact factor: 3.02).
- 255.Safari, R., Hoseinifar, S.H, Kavandi, M., 2016. Modulation of antioxidant defence and immune response in zebra fish (*Danio rerio*) using dietary sodium propionate. *Fish Physiology and Biochemistry*; 42, 6, 1733–1739. (Impact factor: 1.42).
- 256.Kolangi Miandare, H., Farvardin, Sh., Shabani, A., Hoseinifar, S.H, Ramezanpour, S. S., 2016. The effects of galactooligosaccharide on systemic and mucosal immune response, growth performance and appetite related gene transcript in goldfish (*Carassius auratus gibelio*). *Fish & shellfish immunology*; 55, 479-483. DOI: 10.1016/j.fsi.2016.06.020. (Impact factor: 3.02)
- 257.Hoseinifar, S.H., Khalili, M. Sun, Y. Zh., 2016. Intestinal histomorphology, autochthonous microbiota and growth performance of Oscar (*Astronotus ocellatus* Agassiz, 1831) following dietary administration of xylooligosaccharide. *Journal of Applied Ichthyology*, 32, 1137-1141 doi: 10.1111/jai.13118. (Impact factor: 0.78)
- 258.Safari, R., Hoseinifar, S.H, Nejadmoghadam, Sh., Jafar, A., 2016. Transcriptomic study of mucosal immune, antioxidant and growth related genes and non-specific immune response of Common carp (*Cyprinus carpio*) fed dietary *Ferula* (*Ferula assafoetida*). *Fish & Shellfish Immunology*; 55, 242-248 (Impact factor: 3.02).
- 259.Azimirad, M., Meshkini, S., Ahmadifard, N., Hoseinifar, S.H., 2016. The effects of feeding with synbiotic (*Pediococcus acidilactici* and fructooligosaccharide) enriched adult *Artemia* on skin mucus immune responses, stress resistance, intestinal microbiota and performance of angelfish (*Pterophyllum scalare*). *Fish & Shellfish Immunology*; 3, 5, 516-522 (Impact factor: 3.02).
- 260.Azimirad, M., Meshkini, S., Ahmadifard, N., Hoseinifar, S.H., 2016. The study of enrichment capability of adult *Artemia franciscana* with singular or combined administration of *Pediococcus acidilactici* and fructooligosaccharide. *International Journal of Aquatic Biology*. 4,2, 96-101 (ISC)
- 261.Hoseinifar, S.H*, Khalili, M., Roufchaie, R., Raeisi, M., Attar, M., Cordero, H., Esteban, M., 2015. Effects of date palm fruit extracts on skin mucosal immunity, immune related genes expression and growth performance of common carp (*Cyprinus carpio*) fry. *Fish & Shellfish Immunology*; 47, 2, 706-711. (Impact factor: 3.02).

262. Hedayati, S.A., Hosseini, S.M., Hoseinifar, S.H., 2016. Response of plasma copper, ceruloplasmin, iron and ions in carp, *Cyprinus carpio* to waterborne ion and nanoparticle exposure. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*; 179, 87-93 (Impact factor: 2.54)
263. Hoseinifar, S.H*, Mirvaghefi, A., Amoozegar, M.A., Merrifield, D., Ringø, E., 2017. In vitro selection of a synbiotic and in vivo evaluation on intestinal microbiota, performance and physiological response of rainbow trout (*Oncorhynchus mykiss*) fingerlings. *Aquaculture Nutrition*; 23, 111–118 DOI: 10.1111/anu.12373. (Impact factor: 1.51).
264. Gheisvandi, N., Hajimoradloo, A., Ghorbani, R., Hoseinifar, S.H., 2015. The effects of gradual or abrupt changes of salinity on digestive enzymes activity of Caspian kutum, *Rutilus kutum* (Kamensky, 1901) larvae. *Journal of Applied Ichthyology*, 31, 6, 1107–1112. (Impact factor: 0.78)
265. Yarahmadi, P*, Kolangi, H., Hoseinifar, S.H., 2016. Hemato-immunological and serum biochemical parameters, intestinal histomorphology and growth performance of rainbow trout (*Oncorhynchus mykiss*) fed dietary fermentable fiber (Vitacel®). *Aquaculture Nutrition*, 22, 5, 1134–1142. (Impact factor: 1.51).
266. Hoseinifar, S.H*, Eshaghzadeh, H., Vahabzaheh, H., Peykaran Mana, N., 2015. Modulation of growth performances, survival, digestive enzyme activities and intestinal microbiota in common carp (*Cyprinus carpio*) larvae using short chain fructooligosaccharide. *Aquaculture research*, 40, 10, 3246–3253. DOI: 10.1111/are.12777 (Impact factor: 1.60)
267. Hoseinifar, S.H*, Esteban, M.A., Cuesta, A., Sun, Y-Z., 2015. Prebiotics and fish immune response: a review of current knowledge and future perspectives. *Reviews in Fisheries Science & Aquaculture*; 23, 4, 315-328 (Impact factor: 1.14).
268. Hoseinifar, S.H*, Mirvaghefi, A., Amoozegar, M.A., Sharifian, M., Esteban, M.Á., 2015. Modulation of innate immune response, mucosal parameters and disease resistance in rainbow trout (*Oncorhynchus mykiss*) upon synbiotic feeding. *Fish & shellfish immunology*; 45, 1, 27-32. (Impact factor: 3.02).
269. Hoseinifar, S.H*, Zare, P., 2015. The effects of prebiotic on gut microbiota and survival rate of Indian white shrimp post-larvae (*Fenneropenaeus indicus*). *Veterinary Research Forum*; 6, 4, 331-335.
270. Yan, Y.Y., Xia, H.Q., Yang, H.L., Hoseinifar, S.H, Sun, Y.ZH., 2016. Effects of dietary live or heat-inactivated autochthonous *Bacillus pumilus* SE5 on growth performance, immune responses and immune genes expression in grouper *Epinephelus coioides*. *Aquaculture Nutrition*; 22, 3, 698–707 DOI: 10.1111/anu.12297 (Impact factor: 1.51).
271. Hoseinifar, S.H*, Roosta, Z., Hajimoradloo, A., Vakili, F., 2015. The effects of *Lactobacillus acidophilus* as feed supplement on mucosal immune parameters, intestinal microbiota, stress resistance and growth performance of black swordtail (*Xiphophorus helleri*). *Fish & shellfish immunology*; 42, 2, 533-538. (Impact factor: 3.02).
272. Roosta, Z., Hoseinifar, S.H*, 2016. The effects of crowing stress on some epidermal mucus immune parameters, growth performance and survival rate of Tiger barb (*Puntius tetrazona*). *Aquaculture Research*; 47, 5, 1682-1686. DOI: 10.1111/are.12616. (Impact factor: 1.60)
273. Roufchaie, R*, Hoseinifar, S.H., 2014. Effects of dietary commercial yeast glucan on innate immune response, hematological parameters, intestinal microbiota and growth performance of white fish (*Rutilus frisii kutum*) fry. *Croatian Journal of Fisheries*; 72, 156-163.
274. Yarahmadi, P., Farahmand, H*, Kolangi, H., Mirvaghefi, A., Hoseinifar, S.H*, 2014. Dietary fermentable fiber upregulated immune related genes expression, increased innate immune response and resistance of rainbow trout (*Oncorhynchus mykiss*) against *Aeromonas hydrophila*. *Fish & shellfish immunology*; 41, 2, 326-331. (Impact factor: 3.02).
275. Hoseinifar, S.H*, Soleimani, N., Ringø, E., 2014. Effect of dietary fructo-oligosaccharide supplementation on the growth performance, haemato-immunological parameters, gut microbiota and stress resistance of common carp (*Cyprinus carpio*) fry. *British Journal of Nutrition*, 112, 8, 1296-1302. (Impact factor: 3.31).
276. Hoseinifar, S.H*, Ringø, E., Shenavar Masooleh, A., Esteban, M.Á., 2016. Probiotic, prebiotic and synbiotic supplements in sturgeon aquaculture: a review. *Reviews in Aquaculture*; 8, 1, 89-102 DOI: 10.1111/raq.12082 (Impact factor: 4.76).

277. Yarahmadi, P., Kolangi, H*, Hoseinifar, S.H., Gheysvandi, N., Akbarzadeh, A., 2015. The effects of stocking density on hemato-immunological and serum biochemical parameters of rainbow trout (*Oncorhynchus mykiss*). *Aquaculture International*; 23, 1, 55-63 (Impact factor: 0.96)
278. Eshaghzadeh, H., Hoseinifar, S.H*, Vahabzadeh, H., Ringø, E., 2015. The effects of dietary inulin on growth performances, survival and digestive enzyme activities of common carp (*Cyprinus carpio*) fry. *Aquaculture Nutrition*; 21, 2, 242-247. (Impact factor: 1.51).
279. Roosta, Z., Hajimoradloo, A.M., Ghorbani, R., Hoseinifar, S.H., 2014. The effects of dietary vitamin C on skin mucus immune response and growth performance of Caspian roach (*Rutilus rutilus caspicus*) fry. *Fish Physiology and Biochemistry*; 40, 5, 1601-1607. (Impact factor: 1.42).
280. Gheysvandi, N., Hajimoradloo, A., Hoseinifar, S.H., 2014. The effect of water temperature on food transit time and digestive enzymes activity in Caspian kutum (*Rutilus kutum*) larvae. *International Journal of Aquatic Biology*. 2, 3, 138-146 (ISC)
281. Hoseinifar, S.H*, Sharifian, M., Khalili, M., Vesaghi, M.J., Esteban, M.Á., 2014. The effects of dietary xylooligosaccharide on mucosal parameters, intestinal microbiota and morphology and growth performance of Caspian white fish (*Rutilus frisii kutum*) fry. *Fish & shellfish immunology*, 39, 2, 231–236 (Impact factor: 3.02).
282. Llewellyn, M., Boutin, S., Hoseinifar, S.H., Derome, N., 2014. Teleost microbiomes: progress towards their characterisation, manipulation and applications in aquaculture and fisheries. *Frontiers in Microbiology*; 5, 207. (Impact factor: 4.16).
283. Yarahmadi, P., Farahmand, H*, Kolangi, H., Mirvaghefi, A., Hoseinifar, S.H., 2014. The effects of dietary Immunogen on innate immune response, immune related genes expression and disease resistance of rainbow trout (*Oncorhynchus mykiss*). *Fish & shellfish immunology*, 37, 2, 209–214. (Impact factor: 3.02).
284. Hoseinifar, S.H*, Zare, P., 2013. The effects of different level of live food replacement with microdiet on growth factors, survival and resistance to salinity stress of Indian white shrimp post-larvae (*Fenneropenaeus indicus*). *International Journal of Aquatic Biology*. 1, 5, 209-214 (ISC)
285. Hoseinifar, S.H*, Khalili, M., Rostami, H.K., Esteban, M.Á., 2013. Dietary galactooligosaccharide affects intestinal microbiota, stress resistance, and performance of Caspian roach (*Rutilus rutilus*) fry. *Fish and shellfish immunology*, 35, 5, 1416–1420 (Impact factor: 3.02).
286. Khatooni, M., Hoseinifar, S.H*, Mojazi Amiri, B., 2013. Preliminary study on semi-closed incubator efficiency for hatching Persian sturgeon (*Acipenser persicus*) eggs. *International Journal of Aquatic Biology*. 1, 3, 116-118. (ISC)
287. Khatooni, M*, Mojazi Amiri, B., Mirvaghefi, Jafari, V., Hoseinifar, S.H., 2012. The effects of salinity on the fertilization rate and rearing of the Persian sturgeon (*Acipenser persicus*) larvae. *Aquaculture international*. 20, 1097–1105 (Impact factor: 0.96)
288. Soleimani, N., Hoseinifar, S.H*, Merrifield, D., Barati M., Hassan Abadi, Z., 2012. Dietary supplementation of fructooligosaccharide (FOS) improves the innate immune response, stress resistance, digestive enzyme activities and growth performance of Caspian roach (*Rutilus rutilus*) fry. *Fish & shellfish immunology*, 32, 316-321. (Impact factor: 3.02). (**Hot paper**)
289. Ahmadi, M*, Bagher Amiri, B., Abdoli, A., Fakharzade, S. M.E., Hoseinifar, S.H., 2011. Sex steroids, gonad histology and biological indices of fall and spring Caspian lamprey (*Caspiomyzon wagneri*) spawning migrants in the Shirud River, Southern Caspian Sea. *Environmental Biology of Fishes*. 92, 2, 229-235. (Impact factor: 1.40).
290. Khatooni, M*, Amiri, B., Hoseinifar, S.H., Makhdomi, N., 2011. Tolerance and potential adaptability of *Acipenser persicus* post-larvae exposed to abrupt or gradual increase of salinity. *Journal of Applied Ichthyology*, 27, 528-532. (Impact factor: 0.78).
291. Hoseinifar, S.H*, Mirvaghefi, A., Merrifield, D., 2011c. The effects of dietary inactive brewer's yeast *Saccharomyces cerevisiae* var. *ellipsoideus* on the growth, physiological responses and gut microbiota of juvenile beluga (*Huso huso*). *Aquaculture*, 318, 1-2, 90-94 (Impact factor: 1.89).
292. Hoseinifar, S.H*, Mirvaghefi, A., Mojazi Amiri, B., Rostami, H.K., Merrifield, D., 2011b. The effects of

oligofructose on growth performance, survival and autochthonous intestinal microbiota of beluga (*Huso huso*) juveniles. *Aquaculture Nutrition*. 17, 5, 498–504. doi: 10.1111/j.1365-2095.2010.00828.x (Impact factor: 1.51).

293.Hoseinifar, S.H*, Mirvaghefi, A., Mojazi Amiri, B., Merrifield, D., Darvish Bastami, K., 2011a. The study of some haematologic and serum biochemical parameters of juvenile beluga *Huso huso* fed dietary prebiotic oligofructose. *Fish physiology and biochemistry*, 37 (1), 91-96. DOI: 10.1007/s10695-010-9420-9 (Impact factor: 1.42).

Book and Chapters:

Title of Book (translate)	Published	Year
Probiotics and prebiotics in Aquaculture.	Green Wave Pub	2007
Aquaculture Nutrition: Gut Health, Probiotics and Prebiotics (Contributed to 3 book chapters)	Wiley-Blackwell scientific Publication	2014
Diagnosis and Control of Diseases of Fish and Shellfish, (Contributed to 1 book chapters)	Wiley-Blackwell scientific Publication	2016
Studies in Natural Products Chemistry (Contributed to 1 Chapter)	Elsevier Publication	2019
Microbial Communities in Aquaculture Ecosystems (Contributed to 2 book chapters)	Springer Publication	2019
Novel Approaches Towards Sustainable Tilapia Aquaculture	Springer Publication	2023