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### **EDUCATION**

DVSc	2008	Fish Health and Diseases University of Tehran, Iran.
DVM	2003	Veterinary Medicine University of Tehran, Iran.

### **PROFESSIONAL EXPERIENCE**

2021-Present	Full Professor, University of Tabriz, Tabriz, Iran.
2012-2021	Associate Professor, University of Tabriz, Tabriz, Iran.
2008-2012	Assistant Professor, University of Tabriz, Tabriz, Iran.
2006-2008	Invited Lecturer, University of Tabriz, Tabriz, Iran.
2005-2006	Invited Lecturer, University of Gonbad Kavous, Gonbad Kavous, Iran.

### **HONORS AND RESEARCH SUPPORT**

2018-2021	University of Tabriz Grant Project (05/26/2018-828) <i>Effects of some additives on growth, immune system and disease resistance in some fish species (IRR 300,000,000)</i> Principle Investigator
2018-Present	University of Tabriz Grant Project <i>study the efficacy of probiotic Escherichia coli strain Nissle 1917 on growth performance, immune system and intestinal morphology following the challenge with arsenic in goldfish (Carassius auratus) (IRR 300,000,000)</i> Co- Investigator
2017-2019	University of Tabriz Grant Project <i>Study the dietary effects of Spirulina platensis on growth performance, fillet proximate fillet composition, and tissue antioxidant mechanisms in rainbow trout (Oncorhynchus mykiss) (IRR 25,000,000)</i> Principle Investigator
2017-2018	University of Tabriz Grant Project <i>Study the effects of grape seed extract on growth and biochemical parameters in rainbow trout (Oncorhynchus mykiss) (IRR 30,000,000)</i>

- Co- Investigator
- 2017-2018 University of Tabriz Grant Project  
*Characterization, differentiation and molecular studies of heart and liver tissue-derived mesenchymal stem cells in animal model zebrafish (Danio rerio) (IRR 21,000,000)*  
Co- Investigator
- 2010-2015 Nuclear Science and Technology Research Institute Project (PRI-A4-96-001)  
*The use of Ichthyophthirius multifiliis irradiated vaccine in control of white spot disease of rainbow trout (Euro 32,000)*  
Co- Investigator
- 2013-2014 University of Tabriz Grant Project  
*Identification of zoonotic Cryptosporidium parvum in freshwater ornamental fish (IRR 50,000,000)*  
Co- Investigator
- 2011-2014 University of Tabriz Grant Project  
*Study the Influence of extremely low frequency electromagnetic fields on innate immune response and biochemical parameters in rainbow trout (Oncorhynchus mykiss) (IRR 112,000,000)*  
Co- Investigator
- 2010-2011 Islamic Azad University, Tabriz branch Grant Project  
*Effects of green tea (Camellia sinensis) on the gene expression of some cytokines, HSP-70 and Mx genes in rainbow trout (Oncorhynchus mykiss) (IRR 99,000,000)*  
Co- Investigator
- 2009-2010 University of Tabriz Grant Project  
*Immunomodulatory effects of decaffeinated green tea (Camellia sinensis) on the immune system of rainbow trout (Oncorhynchus mykiss) (IRR 30,000,000)*  
Principle investigator
- 2008 Most active participant award, Fish and Shellfish Immunology Workshop, Wageningen University, Netherlands
- 2003 DVSc exam top rank, University of Tehran, Iran.

### **JOURNAL PUBLICATIONS (IN ENGLISH)**

- Nofouzi, K., **Sheikhzadeh, N.**, Hamidian, G., Shahbazfar A.A., Soltani, M., Marandi, A. 2024. Growth performance, mucosal immunity and disease resistance in goldfish (*Carassius auratus*) orally administered with *Escherichia coli* Strain Nissle 1917. Fish Physiol. Biochem (Accepted).
- Mousavi, S., Mohammadzadeh, S., Mehdizadeh Mood, S., Ahmadifar, E., **Sheikhzadeh, N.**, Kalhor, N., Shahriari Moghadam, M., Yilmaz, Y., Hoseinifar, S.H., Paolucci, M. 2024. Dietary artichoke (*Cynara scolymus*) extract ameliorated the growth performance, humoral immune parameters and resistance against *Aeromonas hydrophila* in goldfish (*Carassius auratus*). Ann. Anim. Sci. DOI: 10.2478/aoas-2024-0043

- Sheikhzadeh, N.**, Soltani, M., Heidarieh, M., Ghorbani, M. 2024. Role of dietary microalgae on fish health and fillet quality: Recent insights and future prospects. *Fishes* 9, 26. DOI: [10.3390/fishes9010026](https://doi.org/10.3390/fishes9010026)
- Heidarieh, M., Parsaeimehr M., **Sheikhzadeh, N.** 2023. Use of gamma radiation for the antioxidant improvement of saffron [*Crocus sativus*] petal extract. *Radiochim. Acta* 111, 12.  
DOI: [10.1515/ract-2023-0188](https://doi.org/10.1515/ract-2023-0188)
- Shahbazi, P., **Sheikhzadeh, N.**, Nazarpour Siahtan, M.A., Keshavarz Ghadimi, A., Soltani, M., Nofouzi, K., Mousavi, S., Khordadmehr, M., Marandi, A., Firouzmandi M. 2023. Efficacy of dietary live or heat-killed *Bacillus subtilis* in goldfish (*Carassius auratus*) infected with *Ichthyophthirius multifiliis*. *Vet. Med. Sci.* 9, 1636-1645. DOI: [10.1002/vms3.1183](https://doi.org/10.1002/vms3.1183)
- Heidarieh, M., Gholamhosseini, A., **Sheikhzadeh, N.**, Esteban, M.A. 2023. Effects of  $\gamma$ -irradiated date (*Phoenix dactylifera*) fruit on growth, immunological and antioxidant parameters of goldfish (*Carassius auratus*). *Fishes* 8, 251. DOI: [10.3390/fishes8050251](https://doi.org/10.3390/fishes8050251)
- Ahmadifar, M., Eslimi Esfahani, D., Ahmadifar, E., **Sheikhzadeh, N.**, Mehdizadeh Mood, S., Zarei Moradi, S., 2023. Combined effects of *Spirulina platensis* and *Pediococcus acidilactici* on the growth performance, digestive enzyme activity, antioxidative status, and immune genes in zebrafish. *Ann. Anim. Sci.* DOI: [10.2478/aoas-2023-0019](https://doi.org/10.2478/aoas-2023-0019)
- Nofouzi, K., **Sheikhzadeh, N.**, Hamidian, G., Shahbazfar, A.A., Marandi, A., 2023. Effects of *Escherichia coli* strain Nissle 1917 on goldfish (*Carassius auratus*) tissues histomorphology challenged with arsenic. *Vet. Res. Forum* 14(7), 367-372. DOI: [10.30466/vrf.2022.557449.3551](https://doi.org/10.30466/vrf.2022.557449.3551)
- Shabanzadeh, S., Vatandoust, S., Hosseinifard, S.M., **Sheikhzadeh, N.**, Shahbazfar, A.A., 2023. Dietary commercial astaxanthin (Lucantin Pink<sup>®</sup>) mitigated oxidative stress by diazinon in rainbow trout (*Oncorhynchus mykiss*). *Vet. Res. Forum* 14(2), 97-104. DOI: [10.30466/vrf.2021.533582.3209](https://doi.org/10.30466/vrf.2021.533582.3209)
- Sheikhzadeh, N.**, Ahmadifar, E., Soltani, M., Tayefi-Nasrabadi, H., Mousavi, S., Naiel, M.A.E., 2022. Brown seaweed (*Padina australis*) extract can promote performance, innate immune responses, digestive enzyme activities, intestinal gene expression and resistance against *Aeromonas hydrophila* in common carp (*Cyprinus carpio*). *Animals* 12(23), 3389. DOI: [10.3390/ani12233389](https://doi.org/10.3390/ani12233389)
- Ahmadifar, E., Kalhor, N., Yousefi, M., Adineh, H., Moghadam, M.S., **Sheikhzadeh, N.**, Moonmanee, T., Hosinifard, S.H., Van Doan, H., 2022. Effects of dietary *Plantago ovata* seed extract administration on growth performance and immune function of common carp (*Cyprinus carpio*) fingerling exposed to ammonia toxicity. *Vet. Res. Commun.* DOI: [10.1007/s11259-022-10034-5](https://doi.org/10.1007/s11259-022-10034-5)
- Hassanzadeh, P., Ahmadvand, M., Aslani, S., **Sheikhzadeh, N.**, Mousavi, S., Khatibi, S.A., Dawood, M.A.O., Ahmadifar, E., 2022. Dietary astaxanthin mitigated paraquat-induced oxidative stress in rainbow trout (*Oncorhynchus mykiss*) fillet. *Aquac. Res.* 53, 5300-5309. DOI: [10.1111/are.16014](https://doi.org/10.1111/are.16014)
- Eslami, M., Zaretabar, A., Dawood, M.A.O., Mohammadzadeh, S., Shahali, Y., Ahmadifar, E., **Sheikhzadeh, N.**, Shahriari Moghadam, M., Hoseinifard, 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. DOI: [10.1016/j.aquaculture.2022.737939](https://doi.org/10.1016/j.aquaculture.2022.737939)

- Sheikhzadeh, N.**, Ahmadifar, E., Dawood, M.A.O., Soltani, M., 2021. Dietary sodium propionate enhanced the growth performance, immune-related genes expression, and resistance against *Ichthyophthirius multifiliis* in goldfish (*Carassius auratus*). *Aquaculture*. 540, 736720. DOI: [10.1016/j.aquaculture.2021.736720](https://doi.org/10.1016/j.aquaculture.2021.736720)
- Mousavi, F, **Sheikhzadeh, N.**, Hamidian, G., Mardani, K., Khani Oushani, A., Firouzmandi, M., Esteban, M.A., Shohreh, P., 2021. Changes in rainbow trout (*Oncorhynchus mykiss*) growth and mucosal immune parameters after dietary administration of grape (*Vitis vinifera*) seed extract. *Fish Physiol. Biochem.* 47, 547–563. DOI: [10.1007/s10695-021-00930-z](https://doi.org/10.1007/s10695-021-00930-z)
- Sheykhkanlu Milan, F., Rostamzadeh Sani Maleki, B., Moosavy, M.H., Mousavi, S., **Sheikhzadeh, N.**, Khatibi, S.A., 2021. Ameliorating effects of dietary *Haematococcus pluvialis* on arsenic-induced oxidative stress in rainbow trout (*Oncorhynchus mykiss*) fillet. *Ecotoxicol. Environ. Saf.* 207, 111559. DOI: [10.1016/j.ecoenv.2020.111559](https://doi.org/10.1016/j.ecoenv.2020.111559)
- Mehrinakhi, Z., Ahmadifar, E., **Sheikhzadeh, N.**, Shahriari Moghadam, M., Dawood, M.A.O., 2021. Extract of grape seed enhances the growth performance, humoral and mucosal immunity, and resistance of common carp (*Cyprinus carpio*) against *Aeromonas hydrophila*. *Ann. Anim. Sci.* 21, 217-232. DOI: [10.2478/aoas-2020-0049](https://doi.org/10.2478/aoas-2020-0049)
- Khani Oushani, A., Soltani, M., **Sheikhzadeh, N.**, Shamsaie Mehrgan, M., Rajabi Islami, H. 2020. Effects of dietary chitosan and nano-chitosan loaded clinoptilolite on growth and immune responses of rainbow trout (*Oncorhynchus mykiss*). *Fish Shellfish Immunol.* 98, 210-217. DOI: [10.1016/j.fsi.2020.01.016](https://doi.org/10.1016/j.fsi.2020.01.016)
- Ahmadifar, E., Sadegh, T.H., Dawood, M.A.O., Dadar, M., **Sheikhzadeh, N.**, 2020. The effects of dietary *Pediococcus pentosaceus* on growth performance, hemato-immunological parameters and digestive enzyme activities of common carp (*Cyprinus carpio*). *Aquaculture*. 516, 734656. DOI: [10.1016/j.aquaculture.2019.734656](https://doi.org/10.1016/j.aquaculture.2019.734656)
- Mousavi, S., **Sheikhzadeh, N.**, Tayefi-Nasrabadi, H., Alizadeh-Salteh, S., Khani Oushani, A., Firouzmandi, M., Mardani, K., 2020. Administration of grape (*Vitis vinifera*) seed extract to rainbow trout (*Oncorhynchus mykiss*) modulates growth performance, some biochemical parameters, and antioxidant-relevant gene expression. *Fish Physiol. Biochem.* 46, 777-786. DOI: [10.1007/s10695-019-00716-4](https://doi.org/10.1007/s10695-019-00716-4)
- Sheikhzadeh, N.**, Fakheri, T., Nofouzi, K., 2020. Nocardiosis in some ornamental fishes in Iran. *J. Zoonotic Dis.* 4, 28-34. DOI: [10.22034/JZD.2020.10586](https://doi.org/10.22034/JZD.2020.10586)
- Shahbazi, P., **Sheikhzadeh, N.**, Nematollahi, A., Ashrafi Helan, J., 2020. Identification of zoonotic *Cryptosporidium parvum* in fresh water ornamental fish: first report. *J. Zoonotic Dis.* 4(1), 9-16. DOI: [10.22034/JZD.2020.10584](https://doi.org/10.22034/JZD.2020.10584)
- Ahmadifar, E., Dawood, M.A.O., 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*. 513, 734412. DOI: [10.1016/j.aquaculture.2019.734412](https://doi.org/10.1016/j.aquaculture.2019.734412)
- Sheikhzadeh, N.**, Mousavi, S., Khani Oushani, A., Firouzmandi, M., Mardani, K., 2019. *Spirulina platensis* in rainbow trout (*Oncorhynchus mykiss*) feed: effects on growth, fillet composition and tissue antioxidant mechanisms. *Aquac. Int.* 27(6), 1613–1623. DOI: [10.1007/s10499-019-00412-3](https://doi.org/10.1007/s10499-019-00412-3)
- Sheikhzadeh, N.**, Mousavi, S., Hamidian, G., Firouzmandi, M., Khani Oushani, A., Mardani, K., 2019. Role of dietary *Spirulina platensis* in improving mucosal immune responses and disease

- resistance of rainbow trout (*Oncorhynchus mykiss*). *Aquaculture*. 510, 1-8. DOI: [10.1016/j.aquaculture.2019.05.009](https://doi.org/10.1016/j.aquaculture.2019.05.009)
- Ahmadifar, E., **Sheikhzadeh, N.**, Roshanaei, K., Dargahi, N., Faggio, C., 2019. Can dietary ginger (*Zingiber officinale*) alter biochemical and immunological parameters and gene expression related to growth, immunity and antioxidant system in zebrafish (*Danio rerio*)? *Aquaculture*. 507, 341-348. DOI: [10.1016/j.aquaculture.2019.04.049](https://doi.org/10.1016/j.aquaculture.2019.04.049)
- Hasanpour, S., **Sheikhzadeh, N.**, Jamali, H., Naderi Farsani, M., Mardani, K., 2019. Growth performance, antioxidant and immune status of Siberian sturgeon (*Acipenser baeri*) fed diets containing green tea extract and oxidized fish oil. *J. Appl. Ichthyol.* 35, 1179-1188. DOI: [10.1111/jai.13960](https://doi.org/10.1111/jai.13960)
- Fathi, E., Farahzadi, R., **Sheikhzadeh, N.**, 2019. Immunophenotypic characterization, multi-lineage differentiation and aging of zebrafish heart and liver tissue-derived mesenchymal stem cells as a novel approach in stem cell-based therapy. *Tissue Cell*. 57, 15-21. DOI: [10.1016/j.tice.2019.01.006](https://doi.org/10.1016/j.tice.2019.01.006)
- Nofouzi, K., **Sheikhzadeh, N.**, Varshoie, H., Khadir Sharabyani, S., Jafarnezhad, M., Shabanzadeh, S., Ahmadifar, E., Stanford, J., Shahbazfar, A.A., 2019. Beneficial effects of killed *Tsukamurella inchonensis* on rainbow trout (*Oncorhynchus mykiss*) growth, intestinal histology, immunological and biochemical parameters. *Fish Physiol. Biochem.* 45(1), 209-217. DOI: [10.1007/s10695-018-0555-4](https://doi.org/10.1007/s10695-018-0555-4)
- Hamidian, G., Zirak, K., **Sheikhzadeh, N.**, Khani Oushani, A., Shabanzadeh, S., Divband, B., 2018. Intestinal histology and stereology in rainbow trout (*Oncorhynchus mykiss*) administrated with nanochitosan/zeolite and chitosan/zeolite composites. *Aquac. Res.* 49, 1803–1815. DOI: [10.1111/are.13634](https://doi.org/10.1111/are.13634)
- Najafi Enferadi, M.H., Mohammadzadeh, F., Soltani, M., Bahri, A.H., **Sheikhzadeh, N.**, 2018. Effects of *Lactobacillus plantarum* on growth performance, proteolytic enzymes activity and intestine morphology in rainbow trout (*Oncorhynchus mykiss*). *Turkish J. Fish. Aquat. Sci.* 18, 351-356. DOI: [10.4194/1303-2712-v18\\_2\\_14](https://doi.org/10.4194/1303-2712-v18_2_14)
- Sheikhzadeh, N.**, Kouchaki, M., Mehregan, M., Tayefi-Nasrabadi, H., Divband, B., Khatamian, M., Khani Oushani, A., Shabanzadeh, S., 2017. Influence of nanochitosan/zeolite composite on growth performance, digestive enzymes and serum biochemical parameters in rainbow trout (*Oncorhynchus mykiss*). *Aquac. Res.* 48(12), 5955–5964. DOI: [10.1111/are.13418](https://doi.org/10.1111/are.13418)
- Sheikhzadeh, N.**, Tahapour, K., Nofouzi, K., Tukmechi, A., Shabanzadeh, S., Khani Oushani, A., Stanford, J., McIntyre, G., Mardani, K., 2017. Can heat-killed *Gordonia bronchialis* enhance growth and immunity in rainbow trout (*Oncorhynchus mykiss*)? *Aquac. Nutr.* 23(4), 788–795. DOI: [10.1111/anu.12445](https://doi.org/10.1111/anu.12445)
- Nofouzi, K., Aghapour, M., Ezazi, A., **Sheikhzadeh, N.**, Tukmechi, A., Khordadmehr, M., Akbari, M., Tahapour, K., Mousavi, M., 2017. Effects of *Verbascum speciosum* on growth performance, intestinal histology, immune system and biochemical parameters in rainbow trout (*Oncorhynchus mykiss*). *Turkish J. Fish. Aquat. Sci.* 17, 145-152. DOI: [10.4194/1303-2712-v17\\_1\\_17](https://doi.org/10.4194/1303-2712-v17_1_17)
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- Heidarieh, M., Mirvaghefi, A.R., Akbari, M., Farahmand, H., **Sheikhzadeh, N.**, Shahbazfar, A.A., Behgar, M., 2012. Effect of dietary Ergosan on growth performance, digestive enzymes, intestinal histology, hematological parameters and body composition of rainbow trout (*Oncorhynchus mykiss*). Fish Physiol. Biochem. 38, 1169-1174. DOI: [10.1007/s10695-012-9602-8](https://doi.org/10.1007/s10695-012-9602-8)
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- Sheikhzadeh, N.**, Karimi Pashaki, A., Nofouzi, K., Heidarieh, M., Tayefi-Nasrabadi, H., 2012. Effects of dietary Ergosan on cutaneous mucosal immune response in rainbow trout (*Oncorhynchus mykiss*). Fish Shellfish Immunol. 32, 407-410. DOI: [10.1016/j.fsi.2011.11.028](https://doi.org/10.1016/j.fsi.2011.11.028)
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- Sheikhzadeh, N.**, Soltani, M., Ebrahimzadeh-Mousavi, H.A., Shahbazian, N., Norouzi, M., 2011. Effects of *Zataria multiflora* and *Eucalyptus globolus* essential oils on haematological parameters and respiratory burst activity in *Cyprinus carpio*. *Iran. J. Fish. Sci.* 10(2), 316-323. EID: [2-s2.0-80051682571](https://doi.org/2-s2.0-80051682571)
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#### **JOURNAL PUBLICATIONS (IN PERSIAN)**

- Sheikhzadeh, N.**, Marandi, A., Mousavi, S., Hamidian, G., 2023. Effects of troxerutin on mRNA expression of the genes encoding lysozyme and tumor necrosis factor- $\alpha$  and histology in goldfish (*Carassius auratus*) skin. *J. Aquac. Res. Dev.* 16(4), 95-105.
- Khani Oushani, A., Soltani, M., **Sheikhzadeh, N.**, Shamsaie Mehrgan, M., Rajabi Islami, H., Hamidian G., 2023. Effect of chitosan and nano-chitosan loaded clinoptilolite on histomorphology and pepsin activity in rainbow trout (*Oncorhynchus mykiss*) stomach. *J. Vet. Res.* 78(3), 183-195. DOI: [10.22059/jvr.2022.345292.3279](https://doi.org/10.22059/jvr.2022.345292.3279)
- Shabandadeh, S., Vatandoust, S., Hosseinifard, S.M., **Sheikhzadeh, N.**, Shahbazfar, A.A., 2023. Protective effects of astaxanthin against oxidative stress caused by diazinon in rainbow trout (*Oncorhynchus mykiss*) gill. *J. Aquac. Res. Dev.* 17(1), 41-53. <http://aquadev.liiau.ac.ir/article-1-778-fa.html>
- Mousavi, S., **Sheikhzadeh, N.**, Marandi, A., 2021. Study the effect of oral troxerutin on resistance against *Ichthyophthirius multifiliis* in goldfish (*Carassius auratus*). *Iran. Fish. Sci. J.* 30(4), 95-105. <http://isfj.ir/article-1-2493-fa.html>
- Tayefi Nasrabadi, H., Heidarieh, M., **Sheikhzadeh, N.**, Niksefatzendehdel, S., Karimi, P., 2021. Effects of irradiated Ergosan on growth performance, serum biochemical parameters and skin mucosal immune responses in crucian carp (*Carassius carassius*). *Aquat Physiol. Biotechnol.* 9(2), 107-124. DOI: [10.22124/JAPB.2021.17238.1389](https://doi.org/10.22124/JAPB.2021.17238.1389)
- Mousavi, S., **Sheikhzadeh, N.**, Marandi, A., 2020. Effects of dietary-black cumin (*Nigella sativa*) oil on growth, antioxidant and biochemical indices and digestive enzyme activities in electric



yellow cichlid (*Labidochromis caeruleus*). J. Fish. 73, 471-482. DOI: [10.22059/JFISHERIES.2020.309400.1194](https://doi.org/10.22059/JFISHERIES.2020.309400.1194)

**Sheikhzadeh, N.**, Zohouri, M., Mousavi, S., 2020. Effects of astaxantin on growth performance, survival rate, and lipid peroxidation in rainbow trout (*Oncorhynchus mykiss*). Vet. Res. Biol. Prod. DOI: [10.22092/VJ.2020.351274.1746](https://doi.org/10.22092/VJ.2020.351274.1746)

Hassanzadeh, P., Oladi, A., **Sheikhzadeh, N.**, Mahmoudi, R., Khani Oushani, A., Mousavi, S., 2020. Study the effects of administrating zeolite/chitosan and zeolite/nano chitosan composites in rainbow trout (*Oncorhynchus mykiss*) diet on the quality of the frozen fillet. Iran. Vet. J. 16, 66-76. DOI: [10.22055/ivj.2019.173120.2121](https://doi.org/10.22055/ivj.2019.173120.2121)

Ahmadifar, E., Mehrinakhi, Z., **Sheikhzadeh, N.**, Shahriari Moghadam, M., 2020. Effects of grape seed extract (*Vitis vinifera*) on digestive enzymes and histology in common carp (*Cyprinus carpio*). J. Fish. 73, 329-340. DOI: [10.22059/JFISHERIES.2020.305947.1184](https://doi.org/10.22059/JFISHERIES.2020.305947.1184)

Heydari Sadegh, T., Ahmadifar, E., Dadar, M., **Sheikhzadeh, N.**, 2020. Modulation of growth performance, digestive enzyme activity, serum biochemical and immunological parameters in common carp (*Cyprinus carpio*) using probiotic *Bacillus cereus*. Aquat Physiol. Biotechnol. 8, 1-19. DOI: [10.22124/JAPB.2020.15575.1364](https://doi.org/10.22124/JAPB.2020.15575.1364)

**Sheikhzadeh, N.**, Heidarieh, M., 2020. Effects of commercial synbiotic Biomin® IMBO on growth performance, some biochemical parameters and skin mucosal immunity in crucian carp (*Carassius carassius*). J. Aquac. Res. Dev. 14 (2), 55-65. URL: <http://aquadev.liiau.ac.ir/article-1-681-fa.html>

Najafi Enferadi, M.H., Mohammadzadeh, F., Soltani, M., Bahri, A.H., **Sheikhzadeh, N.**, 2020. Effects of *Lactobacillus plantarum* and Mannan Oligosaccharide on growth performance and some digestive factors in *Oncorhynchus mykiss*. J. Anim. Physiol. Dev. 13, 69-83

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Ahmadifar, E., Shahriari Moghadam, M., **Sheikhzadeh, N.**, 2019. The effect of persimmon leaf extract (*Diospyros kaki*) as feed additive on some blood parameters and non-specific immune response in Common carp (*Cyprinus carpio*). J. Aquac. Sci. 7, 27-36.

**Sheikhzadeh, N.**, Mousavi, S., 2019. Effects of green tea (*Camellia sinensis*) ethanolic extract on biochemical parameters and oxidative status in goldfish (*Carassius auratus*). Vet. Res. Biol. Prod. 32, 118-123. DOI: [10.22092/VJ.2019.124409.1536](https://doi.org/10.22092/VJ.2019.124409.1536)

**Sheikhzadeh, N.**, Nootash, N., Khani Oushani, A., Mousavi, S., Tahapour, K., 2019. Expression analysis of IFN- $\gamma$ , MX1, MX2, MX3 and HSP70 genes in rainbow trout (*Oncorhynchus mykiss*) administrated with green tea (*Camellia sinensis*). Iran. Vet. J. 15, 32-40. DOI: [10.22055/IVJ.2018.105608.1983](https://doi.org/10.22055/IVJ.2018.105608.1983)

**Sheikhzadeh, N.**, Heidarieh, M., Falsafi, M., Nofouzi, K., Tukmechi, A., 2017. Effects of gamma-irradiated *Ichthyophthirius multifiliis* coated with calcium phosphate nanoparticles on immunological responses in rainbow trout (*Oncorhynchus mykiss*) skin mucus. Iran. Vet. J. 13, 38-47. DOI: [10.22055/IVJ.2017.52760.1721](https://doi.org/10.22055/IVJ.2017.52760.1721)

Maleki Moghaddam, M., Janmohammadi, H., Taghizadeh, A., **Sheikhzadeh, N.**, 2015. Formulation of fish meal-free diets in feeding rainbow trout (*Oncorhynchus mykiss*). Anim. Sci. Res. 25, 95-106.

**Sheikhzadeh, N.,** Soltani, M., Ebrahimzadeh Mousavi, H.A., Khosravi, A.L., Bagheri, H., Fathi, E., Zargar, A., 2009. Effects of *Eucalyptus globules* Labill essential oil on some immunological variables of common carp (*Cyprinus carpio*). J. Vet. Res. 64, 47-54.

### **BOOK PUBLICATIONS**

**Sheikhzadeh, N.,** Soltani, M., 2020. Immunostimulants in Aquaculture. University of Tehran Press, Tehran, Iran. pp.1-186.

**Sheikhzadeh, N.,** 2012. An introduction to propagation, culture, health and diseases of European catfish (*Silurus glanis*). Parivar Press, Tabriz, Iran. pp. 1-104.

### **CONFERENCE PRESENTATIONS**

**Sheikhzadeh, N.,** Marandi, A., (2021, January) *Effects of dietary troxerutin on growth performance in goldfish*. Poster session presented at the 5th international congress of developing agriculture, natural resources, environment and tourism, Tabriz, Iran.

**Sheikhzadeh, N.,** Zohouri, M., Mousavi, S., (2020, September). *Effects of astaxantin on growth performance and survival rate in rainbow trout (Oncorhynchus mykiss)*. Poster session presented at the 8th Iranian Conference of Ichthyology, Noor, Iran.

**Sheikhzadeh, N.,** Marandi, A., Mousavi, S., (2020, September). *Effects of dietary-black cumin (Nigella sativa) oil on growth, antioxidant and biochemical indices and digestive enzyme activities in electric yellow cichlid (Labidochromis caeruleus)*. Poster session presented at the 8th Iranian Conference of Ichthyology, Noor.

Mousavi, S., **Sheikhzadeh, N.,** (2020, September). *Study the effect of grape seed extract on biochemical parameters in rainbow trout (oncorhynchus mykiss) fillet*. Poster session presented at the 1th national congress of food hygiene, Urmia, Iran.

Fathi, E., Farahzadi, R., **Sheikhzadeh, N.,** (2018, November) *Zebrafish liver tissue-derived mesenchymal stem cells expressed the CD44 and CD90 epitopes as mesenchymal cell surface markers*. Poster session presented at the 3rd National Festival and International Congress on Stem Cell and Regenerative Medicine, Tehran, Iran.

Fathi, E., Farahzadi, R., **Sheikhzadeh, N.,** (2018, August). *Immunophenotypical characterization of zebrafish heart-derived mesenchymal stem cells*. Poster session presented at the 20th National and 8th International Congress of Biology, Maragheh, Iran.

Falsafi, M., **Sheikhzadeh, N.,** Heidarieh, M., (2015, October). *Effects of gamma-irradiated Ichthyophthirius multifiliis coated with calcium phosphate nanoparticles on immunological responses in rainbow trout (Oncorhynchus mykiss) skin mucus*. Lecture presented at the 9th convention of Iranian Veterinary Clinicians, Tabriz.

Nofouzi, K., **Sheikhzadeh, N.,** Aghapour, M., Mirasi Oskoui, F., Hamidi Soofiani, V., (2015, October). *Effects of Verbascum speciosum on hepatic enzymes of rainbow trout (Oncorhynchus mykiss)*. Lecture presented at the 9th convention of Iranian Veterinary Clinicians, Tabriz.

**Sheikhzadeh, N.,** Soltani, M., (2012, September). *Detection of Flavobacterium psychrophila from rainbow trout tissue by indirect immunofluorescent antibody test (IFAT)*. Poster session presented at the 17th National and 5th International Iranian Biology Conference, Kerman, Iran.

Shahbazian, N., Khosravi, A.L., Ebrahimzadeh-Mousavi, H.A., **Sheikhzadeh, N.**, (2012, September). *Fungi associated with the diseases of rainbow trout brood stocks in Kermanshah province propagation centers*. Poster session presented at the 17th National and 5th International Iranian Biology Conference, Kerman.

**Sheikhzadeh, N.**, Heidarieh, M., Karimi Pashaki, A., Nofouzi, K., (2012, September). *Sodium dodecyl sulfate (SDS)-polyacrylamide gel electrophoresis of rainbow trout skin mucus protein following the administration of Hilyses® fermented Saccharomyces cerevisiae*. Poster session presented at the 17th National and 5th International Iranian Biology Conference, Kerman.

**Sheikhzadeh, N.**, Heidarieh, M., Karimi Pashaki, A., Nofouzi, K., (2012, October). *Sodium dodecyl sulfate (SDS)-polyacrylamide gel electrophoresis of rainbow trout skin mucus protein after feeding Ergosan*. Poster session presented at the 17th Iranian Veterinary Congress, Tehran.

**Sheikhzadeh, N.**, Maleki Moghaddam, M., Janmohammadi, H., Nofouzi, K., Baradaran, B., (2011, August). *Effects of fish meal replacement by poultry by-product meal and plant protein sources on immune responses of rainbow trout (Oncorhynchus mykiss)*. Lecture presented at the World Academy of Science, Engineering and Technology, Paris, France.

Shahbazian, N., Soltani, M., **Sheikhzadeh, N.**, (2010, October). *Study the status of streptococcosis in rainbow trout fish farms in Kermanshah province in 2009*. Poster session presented at the Second International Iranian Aquatic Animal Health Congress, Tehran.

#### **DISSERTATION COMMITTEE MEMBER**

Sahar Shahraki (Fisheries)

Leila Mashhoor Ghadimi (Food Hygiene and quality control)

Sadigheh Shabanzadeh (Fisheries)

Mahdi Mehralitabar (Veterinary, DVM 2024)

Mahdi Ahmadifar (Animal Sciences, PhD 2023)

Mohamad Nasiri (Food Hygiene and quality control, Ms 2022)

Kamel Ghadirzadeh (Animal nutrition, Ms 2021)

Amin Keshavarz Ghadimi (Veterinary Parasitology, Ms 2021)

Mohammad Ali Nazarpour (Veterinary Parasitology, Ms 2021)

Sarvenaz Molaei (Food Hygiene and quality control, Ms 2021)

Ali Khani Oushani (Fisheries, PhD 2020)

Amin Marandi (Veterinary, DVM 2020)

Tooba Heydari Sadegh (Fisheries, Ms 2020)

Bahareh Rostamzadeh Sani Maleki (Food Hygiene and quality control, Ms 2020)

Mohamad Ahmadvand (Food Hygiene and quality control, Ms 2020)

Mohamad Ali Kohanrooz Sarookolae (Veterinary histology, Ms 2020)

Zohreh Mehrinakhi (Fisheries, Ms 2020)

Mojtaba Zohouri (Veterinary, DVM 2018)  
Erfan Ebrahimi (Veterinary, DVM 2018)  
Khadijeh Zirak (Veterinary histology, Ms 2017)  
Mobina Mehregan (Veterinary, DVM 2016)  
Mobina Kouchaki (Veterinary, DVM 2016)  
Afrooz Oladi (Veterinary, DVM 2016)  
Asma Ezazi Maleki (Veterinary, DVM 2016)  
Monireh Falsafi (Veterinary, DVM 2015)  
Sona Khadir Sharabiani (Veterinary, DVM 2015)  
Keyvan Tahapour (Veterinary, DVM 2015)  
Parvin Karimi Abriz (Veterinary, DVM 2014)  
Zhila Targhibi (Veterinary, DVM 2014)  
Alireza Makhlooghi (Veterinary, DVM 2014)  
Tayebe Fakheri (Veterinary, DVM 2013)  
Fatemeh Chehrara (Veterinary, DVM 2012)  
Marjan Ahrab (Veterinary, DVM 2012)  
Atefeh Karimi Pashaki (Veterinary, DVM 2011)  
Samin Jaber (Veterinary, DVM 2011)  
Mehdi Seyfahmadi (Microbiology, Ms 2011)  
Eshagh Koochaki (Veterinary, DVM 2011)  
Mohamad Reza Maleki Moghadam (Animal Sciences, Ms 2011)

## **TEACHING**

### Undergraduate Teaching (2005-Present)

Fish Diseases, University of Gonbad Kavous, Gonbad Kavous, Iran.

Fish Biology, Culture and Diseases, University of Tabriz, Tabriz, Iran.

*Average instructor ratings: 4.5-4.87*

### Postgraduate Teaching (2006-Present)

Animal Biology, University of Tabriz, Tabriz, Iran.

Fish Biology, University of Tabriz, Tabriz, Iran.

Fish Culture, University of Tabriz, Tabriz, Iran.

Fish Health and Diseases, University of Tabriz, Tabriz, Iran.

*Average instructor ratings: 4.37-4.87*

### **PROFESSIONAL SERVICE**

Guest Editor, *Fishes* (2023-Present)

Editorial Board, *Caspian Journal of Veterinary Science* (2022-Present)

Editorial Board, *Iranian Journal of Aquatic Animal Health* (2021-Present)

Editorial Board, *Journal of zoonotic diseases* (2020-Present)

Reviewer, *Aquaculture International* (2024-Present)

Reviewer, *Ecotoxicology and Environmental Safety* (2024-Present)

Reviewer, *Heliyon* (2023-Present)

Reviewer, *International Journal of Biological Macromolecules* (2023-Present)

Reviewer, *Veterinary Research Communications* (2023-Present)

Reviewer, *Probiotics and Antimicrobial Proteins* (2022-Present)

Reviewer, *Natural Product Research* (2022-Present)

Reviewer, *Animal Nutrition* (2021-Present)

Reviewer, *Comparative Biochemistry and Physiology - Part D: Genomics and Proteomics* (2021-Present)

Reviewer, *Aquaculture Reports* (2021-Present)

Reviewer, *Aquaculture* (2018-Present)

Reviewer, *Aquaculture Research* (2016-Present)

Reviewer, *Fish and Shellfish Immunology* (2012-Present)

### **WORKSHOP PRESENTATION**

July 2012

Scientific writing, Veterinary faculty, University of Tabriz, Tabriz, Iran.