

In the name of God



Curriculum Vitae

of

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Head of Aquatic animal Health & Diseases Dept.

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SUMMARY OF QUALIFICATIONS:

- Experienced in epidemiological affairs, Aquatic animal Health and Fish diseases control by means of diagnosis methods in Fish Viral Diseases as well as quarantine plans for prevention of Animal diseases as head of quarantine division in Iran Veterinary Organization (I.V.O) (1991 - 1993).
- Having background in executive affairs in large animal farms in Tehran countryside as a clinician for five years (1986 - 1991).
- Deputy of Research and Education of Iranian veterinary Organization (I.V.O) and Public Health Manager as a parallel duty in I.V.O for 3 years
- Associate Professor in the Ministry of Jihad-e- Agriculture since 1991 up to now.
- Have experiences in Cell culture, Electron Microscope assay (SEM and TEM), IFAT, IHC, ELISA, PCR, RT-PCR, Real time PCR, Fish Histopathology, Hematology and Fish Virology.
- Good ability in speaking, writing and reading English and ability in soft ware programs including; PowerPoint, Photoshop, Word, Excel, SPSS, Endnote, Microsoft Project (MSP).
- Writing of more than 137 Articles in ISI, ISC Journals and 7 Books.
- Visit from more than 35 countries in the world such as France and Ireland for signing the Hygiene Protocol (1991) and also Australia, Namibia, Kenya, Sudan, Ethiopia, Azerbaijan, Ghazaghestan, India, Cyprus and USA for scientific matters (1991-1993) and Japan and Malaysia (2000) for training courses, Norway for 26th Larval Fish Conference as a lecturer. (2002) and visit from AquaNor exhibition (2009), Saudi Arabia for visit, Russia for Broke-2 Conference(2004), Japan (2000 & 2006) for participation and lecture presentation in International Symposium. Also visit from Thailand (2007) for participate in CEAFFDEC workshop and South Korea (2008) for WAS Conference and Split, Croatia (2011) for participation in 15th European Association of Fish Pathologists (EFPA) and Tempere, Finland (2013) for participation in 16th European Association of Fish Pathologists (EFPA) and Oldenburg, Germany (2013) for participation in YOUMARES4 and Naples, Italy (2014) for

participation in Offshore Mariculture 2014 Conference, as invited speaker. Also, Las Palmas Spain for participation in 17th European Association of Fish Pathologists (EFPA) and Bremen, Germany (2015) for participation in YOUMARES6

EDUCATION:

- **Diploma in Management Course**
AOTS Institute in Japan Nov.2001
- **Doctor of Veterinary Medicine (D.V.M)**
Faculty of Veterinary Medicine, Tehran University July 1987
- **Ph.D degree of Aquatic Animal Health & Diseases** Feb.2008
Faculty of Veterinary Medicine, University of Putra Malaysia (UPM)

TEACHING EXPERIENCE:

Management • Financial and administration affairs • Aquatic animal Health & Diseases
• General animal Anatomy • General animal Physiology • Hygiene and Prevention of Animal diseases • Large animal Diseases • Bacteriology • Virology

WORK EXPERIENCE:

- **Large animal Clinician, manager/consultant**
 - Dairy cattle farms in Tehran countryside. 1986 to 1991
- **Member of Scientific Board in Ministry of Jihad-e- Agriculture** since 1991 up to now (Associate professor with more than 31 years experiences)
- **Deputy of Research and Education of Iran Veterinary Organization (I.V.O)**
1990 to 1993
- **Public Health Manager in (I.V.O)** 1992 to 1993
- **Head of Quarantine Section in (I.V.O)** 1990 to 1993
- **Deputy of Finance and Administration affairs in Iranian**

- Fisheries Research Institute (IFRO)** 1999 to 2002
- **Manager of Scientific Information (IT) in Iranian Fisheries Research Institute (IFRO)** 2002 to 2003
 - **Head of Freshwater Fishes Health & Diseases Dept.** 2003 to 2006
 - **Head of Coldwater Fishes Research Center (CFRC)** 21st July 2008 to 20th Dec. 2010.
 - **Head of Research affairs coordination Dept. of Iranian Fisheries Research Organization (IFRO)** March 2011 – May 2012 (1 year 3 months).
 - **Head of Aquatic animal Health & Diseases Dept. at Iranian Fisheries Research Organization (IFRO)** May 2012 up to now.
 - **Head of Iranian Coldwater Fishes Scientific Society (CFS)** Sep. 2010 up to now.

RESEARCH PROJECTS MANAGER with titles as follows:

1. Preliminary study of infectious agents (Viral & Bacterial) of Rainbow trout (*Oncorhynchus mykiss*) Fry Mortality Syndrome in Iran (Tehran, Mazandaran, Guilan, Markazi, Kerman, Fars, Kohkiluyeh and Boyer Ahmad Provinces), Iranian Fisheries Research Organization (2000-2005).
2. A survey on health status of cold water hatcheries and rearing fish farms in Iran (National Research Project 2004-2008).
3. Pilot study for Isolation & Identification of Viral Nervous Necrosis Virus as The report of first occurrence of VNN in Golden grey mullet fishes in Caspian Sea. (Feb.2004-July 2004).
4. A comprehensive study on causative agents of Viral Nervous Necrosis in Golden grey mullet (*Liza auratus*) in the Caspian Sea and the possibility of transmission to the other fish species (Sturgeon fishes , *Rutilus frisii kutum* and reared Carp and Rainbow trout) (National Research Project,Sep.2006-Nov.2010)
5. Epidemiologic study on *Yersinia ruckeri*: the causative agent of enteric redmouth disease and detection of relation between environmental factors and health management with occurrence of enteric redmouth disease (ERM) in rainbow trout

- (*Oncorhynchus mykiss*) cultured farms in West Azerbaijan province, Iran (June 2012 – March 2015).
6. Conservation and Restoration of Caspian salmon (*Salmo trutta caspius*) stocks in the Southern Caspian. (National Research Project) Financial supported by Caspian Environment Program (CEP) institution (Jan.2009 – March 2013).
 7. Production and evaluation of Viral Nervous Necrosis Radiovaccine using nuclear technique (Gama radiation) and comparison with non-nuclear method (formalin inactivated) (National Research Project) (May 2012 up to now).
 8. Evaluation of Specific Diseases in studied Rainbow trout populations (National Research Project) (Dec. 2015 up to now).

LICENSE / CERTIFICATE:

- **Large Animal Clinical affairs License**
 - Iranian Veterinary Organization (IVO) 1986
- **Molecular Biology and PCR training courses,**
 - Shahid Beheshti University, Tehran-IRAN 1999
- **Solving Human and Organizational Problems (SHOP) Course in Management**
 1. AOTS Institute of Japan 2001
- **Real time PCR training courses,**
 - Shahid Beheshti University, Tehran-IRAN 2005
- **TEM & SEM Electeron microscope training courses**
 - UPM University, Malaysia 2006

Publication :

1. Journal papers:

1-2. ISI Articles:

1. Fallahi R., Soltani S., Kargar R., **Zorriehzahra, M.E.J.**, Shchelkunov I., Hemmatzadeh F., Nouri A. (2003) Isolation and identification of the Infectious Haematopoietic Necrosis Virus (IHNV) - like agent from farmed rainbow trout (*Oncorhynchus mykiss*) from Iran. Arch. Razi Ins. 56, 37-45.

2. Fallahi R., Soltani M., **Zorriehzahra, M.E.J.**, Hemmatzadeh F. (2003). Serological Diagnosis of Infectious Haematopoietic Necrosis Disease (IHN) in Rainbow Trout (*Oncorhynchus mykiss*) using Indirect Fluorescent Antibody Test. Journal of Veterinary Research, Vol.61, No. 1, pp: 19-22.
3. **Zorriehzahra, M.E.J.**; Nakai,T.; Sharifpour,I.; Gomez,D.K.; Chi,S.C.; Soltani,M.; Hassan,H.M.D.; Rohani,M., Saidi,A.A. (2005). Mortality of wild golden grey mullet (*Liza auratus*) in Iranian waters of the Caspian Sea associated with viral nervous necrosis-Like agent Iranian Journal Fisheries Science Vol.4, No.2, pp: 43-58.
4. **Zorriehzahra, M.E.J.**; Hassan, M. D., Gholizadeh, M., and Saidi, A. A. (2010). Study of some hematological and biochemical parameters of Rainbow trout (*Oncorhynchus mykiss*) fry in western part of Mazandaran province, Iran. Iranian Journal of Fisheries Sciences, 9(1), 185-198.
5. Koohkan, O., Abdi, R., **Zorriehzahra, M.E.J.**, Movahedinia, A., Sharifpoor,I. (2012). Acute mortality of *Liza klunzingeri* in Persian Gulf and Oman Sea associated with nervous necrosis. Comparative Clinical Pathology, Springer-Verlag,(Oct.2012), DOI:10.1007/s00580-012-1625-0.
6. Talebi, M., Khara, H., **Zorriehzahra, M.E.J.**, Ghobadi, Sh., Khodabandelo, A., Mirrasool, E., (2013). Study on Effect of Red Bell Pepper on Growth, Pigmentation and Blood Factors of Rainbow Trout (*Oncorhynchus mykiss*). World Journal of Zoology, (1): 17-23, DOI: 10.5829/idosi.wjz.2013.8.1.7136.
7. Zamini,A.A; Gholipour Kanani,H; Esmaili,A.A; Ramezani, S; **Zorriehzahra, M.E.J.**(2014). Effects of two dietary exogenous multi-enzyme supplementation, Natuzyme® and beta-mannanase (Hemicell®), on growth and blood parameters of Caspian salmon (*Salmo trutta caspius*), Journal of Comparative Clinical Pathology, Vol. 23, No.1, pp: 187-192.
8. Dargaie, Z.; Sharifpour, I; **Zorriehzahra, M.E.J.** (2014). UV-B impacts on morphology and retina of *Oncorhynchus mykiss* larvae, Iranian Journal of Fisheries Sciences, Vol.13, No.2, pp: 289-302.
9. Nazari, A.; Hassan, M. D.; Bovo, G.; **Zorriehzahra, M. E. J.**; Azmi,T. I. and Arshad, S.S.(2014). Pathogenicity of viral nervous necrosis virus for Guppy fish, *Poecilia reticulata*, Iranian Journal of Fisheries Sciences, Vol.13, No.1, Pp: 168-177.
10. **Zorriehzahra, M.E. J.**, Nazari, A., Ghasemi, M., Ghiasi, M., Karsidani, S. H., Bovo, G., & Daud, H. H. M. (2014). Vacuolating encephalopathy and retinopathy associated with a nodavirus-like agent: a probable cause of mass mortality of wild Golden grey mullet (*Liza aurata*) and Sharpnose grey mullet (*Liza saliens*) in Iranian waters of the Caspian Sea. Virusdisease, 25(4), 430-436.
11. Maryam Ghiasi, Mohammad Binaii, Mohdes Ghasemi, Hasan Fazli, **Mohamad Jalil Zorriehzahra**, (2015). Haemato-biochemical disorders associated with nodavirus like-agent in adult leaping mullet *Liza saliens* (Risso, 1810) in the Caspian Sea. VirusDisease 11/2015; 27(1). DOI:10.1007/s13337-015-0289-1.
12. Adel, M., Amiri, A. A., **Zorriehzahra, M.E.J.**, Nematolahi, A., & Esteban, M. Á. (2015). Effects of dietary peppermint (*Mentha piperita*) on growth performance, chemical body composition

and hematological and immune parameters of fry Caspian white fish (*Rutilus frisii kutum*). Fish & shellfish immunology, 45(2), 841-847.

13. Milad Adel, Reza Safari, Reza Pourgholam, **Jalil Zorriehzahra**, Maria Ángeles Esteban. (2015). Dietary peppermint (*Mentha piperita*) extracts promote growth performance and increase the main humoral immune parameters (both at mucosal and systemic level) of Caspian brown trout (*Salmo trutta caspius* Kessler, 1877). Fish & Shellfish Immunology 10/2015; 47(1). DOI:10.1016/j.fsi.2015.10.005.
14. Abedi, S., Sharifpour, I., Mozanzadeh, M. T., **Zorriehzahra, M.E.J.**, Khodabandeh, S., & Gisbert, E. (2015). A histological and ultrastructural study of the skin of rainbow trout (*Oncorhynchus mykiss*) alevins exposed to different levels of ultraviolet B radiation. Journal of Photochemistry and Photobiology B: Biology, 147, 56-62.
15. Ullah, S.; Hasan, Z.; **Zorriehzahra, M.E.J.** (2015). Diagnosis of Endosulfan Induced DNA Damage in *Labeo rohita* Using Comet Assay. Iranian Journal of Fisheries Sciences (IJFS). (In publish process).
16. **Zorriehzahra, M.E.J.**, Milad Adel and Somayeh Torabi Delshad. (2015). Enteric Redmouth (ERM) Disease: Past, Present and Future: a review. Iranian Journal of Fisheries Sciences (IJFS). (In publish process).
17. Saberi, A, **Zorriehzahra, M.E.J.**, Emadi, H., Kakoolaki, Sh., Fatemi, S.M.R. (2015). Effect of *Chlorella vulgaris* on blood and immunological parameters of Caspian Sea Salmon (*Salmo trutta caspius*) exposed to Viral Nervous Necrosis (VNN) virus, Iranian Journal of Fisheries Sciences (IJFS). (In publish process).
18. Mohamed Ezzat Abd El-Hack, Mahmoud Alagwany, Mayada Ragab Farag, Ruchi Tiwari, Kumaragurubaran Karthik, Kuldeep Dhama, **Jalil Zorriehzahra**, Milad Adel. (2016). Beneficial Impacts of Thymol Essential Oil on Health and Production of Animals, Fish and Poultry: A review. Journal of Essential Oil Research 02/2016; DOI:10.1080/10412905.2016.1153002.
19. **Mohammad Jalil Zorriehzahra**, Somayeh Torabi Delshad, Milad Adel, Ruchi Tiwari, K Karthik, K Dhama, Carlo C Lazado., (2016). Probiotics as beneficial microbes in aquaculture: an update in their multiple modes of action: A review. The Veterinary quarterly, 06/2016.
20. Milad Adel, Carlo C Lazado, Reza Safari, Sakineh Yeganehe and **Mohammad Jalil Zorriehzahra**, (2016). Aqualase®, a yeast-based in-feed probiotic, modulates intestinal microbiota, immunity and growth of rainbow trout *Oncorhynchus mykiss*, Aquaculture Research, 1–12, DOI: 10.1111/are.13019

1-3. ISC Articles:

1. Soltani, M.; Ghasemi, M.; Sharif Rohani, M.; Sharifpoor, I.; **Zorriehzahra, M.E.J.** (2010). Isolation and identification of Betanodavirus causing mass mortalities in golden grey mullet (*Liza auratus*) in the Caspian Sea. Iranian Journal of Veterinary Medicine, 4(3).

2. Farahi, A., Sudagar, M., Hoseini, S.A., **Zorriehzahra, M.E.J.** (2011). Effects of Ovaprim (Sgnrha+Dampridon) and Luteotropin Releasing Hormoned-Ala Analog (LRH-A2) on Artificial Reproduction of Captive Caspian Brown Trout (*Salmo trutta caspius*) Kessler, 1870, Journal of Reproduction and Infertility (JRI), Vol. 2 No. 1, pp: 557-564.
3. **Zorriehzahra, M.E.J.**, Hassan, H.M.D., Nazari, A., Gholizadeh, M., Farahi, A. (2012). Assessment of environmental factors effects on enteric redmouth disease occurrence in rainbow trout (*Oncorhynchus mykiss*) farms in Hamedan province, Iran. Journal of Comparative Clinical Pathology Research. 01/2012; 13(Vol.1, No. 2, pp: 30 – 73).
4. Farahi, A., Sudagar, M., **Zorriehzahra, M.E.J.**, Kasiri, M. (2012). Study on some characteristics of Caspian brown trout milt during different times after the hormonal stimulation. Journal of Comparative Clinical Pathology Research. 01/2012; 1(Vol.1, No. 2, pp: 40-46).
5. Farahi, A., Kasiri, M., Sudagar, M., Soleimani Iraei M., **Zorriehzahra M.E.J.** (2012). Effect of dietary supplementation of *Melissa officinalis* and *Aloe vera* on hematological traits, lipid oxidation of carcass and performance in rainbow trout (*Oncorhynchus mykiss*). *Online Journal of Animal and Feed Research*, 2(1): 01-05.
6. Soltani, M., Zarifmanesh, T., **Zorriehzahra, M.E.J.**, (2013). Effect of *Zataria multiflora* essential oils on rainbow trout (*Oncorhynchus mykiss*) complement component activity and lysozyme. Iranian Scientific Fisheries Journal, (Vol.21, No. 4, pp: 13-22).
7. Yazdanpanah Goharrizi, L., **Zorriehzahra, M. E. J.**, & Adel, M. (2015). The study on effect of temperature stress on occurrence of clinical signs caused by *Aeromonas hydrophila* in *Capoeta damascina* in in vitro condition. Journal of Advances in Animal and Veterinary Sciences, 3(7), 406-412.
8. **Zorriehzahra, M.E. J.**, & Banaederakhshan, R. (2015). Early mortality syndrome (EMS) as new emerging threat in shrimp industry. Journal of Advances in Animal and Veterinary Sciences, 3(2s), 64-72.
9. Ullah, S., **Zorriehzahra, M. E.J.** (2015). Ecotoxicology: a review of pesticides induced toxicity in fish. Journal of Advances in Animal and Veterinary Sciences. 3(1), 40-57.

1-4. ISC Scientific Research Article :

1. **Zorriehzahra, M.E.J.** (1991, 1992). Study on Newborn Diarrhea Syndrome in ruminants. Pajouhesh- va-sazandegi, Iranian scientific and Research, quarterly journal of Ministry of Jihad-e- Sazandegi, Winter 1991, pp: 91-93 and Spring 1992, pp: 115-119. (In Persian).
2. Sharifpour, I., **Zorriehzahra, M.E.J.** (2005). Histopathology of mortality in cultured Rainbow trout (*Oncorhynchus mykiss*) fry in some coldwater hatcheries and fish farms of Iran. Iranian Scientific Fisheries Journal, (Vol.15, No. 1, pp: 89-100). (In Persian).
3. **Zorriehzahra, M.E.J.**, Ghasemi, M., Koohkan, O. (2012). Viral Nervous Necrosis (VNN) Disease in Aquatic animals: Past, Present and Future. (Review Article). Journal of Aquaculture Development, (Vol.6, No.1, pp: 19-56). (In Persian).

4. **Zorriehzahra, M.E.J.**; Ghasemi, M.; Mehrabi, M.R.; Kakoolaki, Sh.; Radkhah, K.; Nazari, A.; Rohani, M.S.; Haghighi Karsidani, S.; Pakniat, Y.; Roustaei, E. (2013). The study on histopathology changes of four ornamental fish species due to invasion of virus of Viral Nervous Necrosis (VNN). *Journal of Aquaculture Development, Islamic Azad University, Lahijan Branch*; Vol.7, No. 2, pp: 25-40. (In Persian).
5. Ghasemi, M.; **Zorriehzahra, M.E.J.**; Sharifpour, I.; Haghighi Karsidani, S. (2013). Detection of Betanodavirus antigen associated with viral nervous necrosis (VNN) in tissue sections of market size golden grey mullet, *Journal of Aquaculture Development, Islamic Azad University, Lahijan Branch*, Vol.7, No. 3, pp: 53-61. (In Persian).
6. **Zorriehzahra, M.E.J.**; Ghiasi, M.; Binaeii, M. (2014). The study on some haematological and biochemical parameters in Golden grey mullet (*Liza auratus*) in southern Caspian Sea of Mazandaran province following the occurrence of an emerged disease, *Journal of Aquaculture Development, Islamic Azad University, Lahijan Branch*, Vol.7, No. 4, pp:25-33. (In Persian).
7. Ganjor, M. S., **Zorriehzahra, M.E.J.**, Mehrabi, M., Gandomkar, H., & Mohammadpoor, M. (2015). A case report of Enteritis Redmouth Disease in cultured rainbow trout (*Oncorhynchus mykiss*) in Kohkyluyeh va Boyerahmad province in Iran. *Iranian Scientific Fisheries Journal (ISFJ)*, 24(1), 133-137. (In Persian).
8. Adel M.; Pourgholam R.; **Zorriehzahra M.E.J.**; Ghiasi M. (2015). The effect of different level of *Mentha piperita* on some of the hematological, biochemical and immune parameters of *Oncorhynchus mykiss*. *Iranian Scientific Fisheries Journal (ISFJ)*, 24(1), 37-46. (In Persian).
9. Adel M.; Pourgholam R.; **Zorriehzahra M.E.J.**; Safari, R., Ghiasi M. (2015). Effect of *Mentha piperita* extract on growth performance, carcass composition, gut bacteria and survival of rainbow trout (*Oncorhynchus mykiss*) exposed to *Yersinia ruckeri*, Hormozghan University, *Journal of Aquatic Ecology*, 4(4), 70-62.
10. Adel, M.; Safari, R.; Ghitanchi, A.H.; **Zorriehzahra, M.E.J.**; Nematolahi, A. (2015). Chemical composition and in vitro antimicrobial activity of some Iranian medical herbs against *Yersinia ruckeri*; the causative agent of Enteric Redmouth Disease (Yersiniosis), *Iranian Journal of Fisheries Sciences (IJFS)*. (In publish process).

1-5. Extension Review Articles:

1. Talebi, M.; Khara, H.; **Zorriehzahra, M.E.J.**; Ghobadi, Sh.; Khodabandelo, A.; Mirrasooli, E. (2013). Effects of Astaxanthin on Pigmentation, Growth and Blood factors on Rainbow Trout (*Oncorhynchus mykiss*). *Journal of Aquatic Animals & Fisheries.*, Vol.3, No.9, pp: 75-83.
2. Rouzi, Y., Mooraki, N., Zorriehzahra, M.E.J., Haghighi, M. (2013). Study on using of *Cinnamomum zeylanicum* in feeding of *Andinocara rivulatus* and effects on blood hematology, Glucose and survival rate. *Babal Azad University, Aquaculture Science Journal*, (1), No.3, pp: 41-52. (In Persian).

3. Ghiasi, M.; **Zorriehzahra, M.E.J.**; Bahonar, A.R.; Pourgholam, R.; Farabi, S.M.V.; Binaii, M.; Saeedi, A.A. (2013). Evaluation of Health management of Breeding and Rearing Rainbow trout (*Oncorhynchus mykiss*). Journal of Fisheries, Islamic Azad University, Azadshahr Branch; Vol.7, No. 3, pp: 103-112. (In Persian).
4. **Zorriehzahra, M.E.J.** (2014). Viral Hemorrhagic Septicemia Disease (VHSD), Journal of Veterinary Council Organization of Iran., 14th year, Jan. and Feb. 2014, No. 10th , Pp: 35-43.
5. **Zorriehzahra, M. E.J.**, Mohammad Reza Mehrabi, Sohrab Rezvani Ghil Gholaei (2015). Introducing of the most important rearing Tilapia infectious diseases (bacterial and viral) in hatchery phase till offer to the market (Grow out phase), Aquatic World Journal, 44-52. (In Persian).

1-6. *Conference papers*

1. **Zorriehzahra, M.E.J.** (1992). Epidemiological study of Rabbis viral disease in Iran and the world. Proceeding of the First Iranian Congress of Zoonoses, Amol, Iran.
2. **Zorriehzahra, M.E.J.** (1993). Epidemiological study of Bovine Spongiform Encephalopathy (BSE) or (Mad cow disease) in the world. Proceeding of the Second Iranian Congress of Zoonoses, Tabriz, Iran.
3. **Zorriehzahra, M.E.J.**, Kordi, A. (1997). Review on Mad Cow Disease in the World. Proceeding of the Food Immunity Conference, Tehran, Iran.
4. **Zorriehzahra, M.E.J.**, (1998). Survey on Policy of Research & Development Centers (R&D) in Southern Korea and new approach for Research Institutes in Iran, Weekly presentation, Deputy of Research & Education Ministry of Jihad-e-sazandegi, Tehran, Iran.
5. **Zorriehzahra, M.E.J.**, (2002). Review on Aquatic Animals Viral Diseases. First Fisheries Students Congress, Tehran University, Fisheries & Natural Resources Faculty, Karaj, Iran.
6. **Zorriehzahra, M.E.J.**, Soltani, M., Fallahi R., Rezavani.S, Karegar Moakhar.R, (2002). Observation of Enteric Red Mouth morbidity case in rainbow trout propagation farm around the Tehran province in IRAN. (Oral presentation) 26th Larval Fish Conference, Book of Abstracts, Bergen, Norway, p: 125.
7. **Zorriehzahra, M.E.J.**, Soltani, M., Fallahi, R., Badiie, A., (2002). Preliminary study of infectious agents associated with Fry Mortality Syndrome of farmed rainbow trout in some Iranian provinces, (Poster presentation) 26th Larval Fish Conference, Book of Abstracts, Bergen, Norway, p: 126.
8. **Zorriehzahra, M.E.J.**, Fallahi, R., Soltani, M., Rezavani.S, Karegar Moakhar.R, Mohsenzadeh.M. (2002). Report of suspected mortality to Viral Hemorrhagic Septicemia (VHS) in rainbow trout farm in Shahryar region of Tehran province. 12th Iranian Veterinary Congress, Tehran, Iran.

9. Fallahi, R., Soltani M., Kargar-Moakhar R., **Zorriehzahra M.E.J.** (2002). IHN survey in some farmed rainbow trout (*Oncorhynchus mykiss*) in Iran. 12th Iranian Veterinary Congress, Tehran, Iran.
10. Fallahi, R., Kargar-Moakhar R., Soltani M., **Zorriehzahra M.E.J.** (2002). Use of the cell culture for isolation of fish viruses. 12th Iranian Veterinary Congress, Tehran, Iran.
11. **Zorriehzahra, M.E.J.**, (2003). Solving Human and Organizational Problems (SHOP) Course in Management (Workshop for Managers and Experts of Iranian Fisheries Organization, Tehran, Iran.
12. **Zorriehzahra, M.E.J.**, Fallahi, R., Soltani, M., (2004).Serological and virological investigation on Infectious Pancreatic Necrosis (IPN) in Rainbow trout hatcheries and rearing farms in Iran. Second Iranian Virology Congress, Tehran, Iran.
13. Soltani M., **Zorriehzahra M.E.J.**, Rezvani S., and Fallahi R. (2004). Bacteriological survey in rainbow trout mortality syndrome in some farmed rainbow trout in Iran, 13th Iranian Veterinary Congress, Tehran, Iran.
14. **Zorriehzahra M.E.J.**, Soltani M., Fallahi R., (2004). Serological investigation on Infectious Pancreatic Necrosis (IPN), Infectious hematopoietic Necrosis (IHN) and Viral Hemorrhagic Septicemia (VHS) in Rainbow trout hatcheries and rearing farms in Iran.The Second Iranian Congress of Fish Health & Diseases, Tehran, Iran.
15. **Zorriehzahra, M. E.J.**; Gomez, D. K.; Nakai,T.; Sharifpour,I.; Chi. S.C.; Soltani,M.; Rohani,M.; Saidi,A.A.(2004).Virology, molecular biology and histopathology investigations on mortality of wild golden grey mullet (*Liza auratus*) in Iranian waters of Caspian Sea. 4th International Conference of Iran & Russia, Shahr-e- Kord,Iran.
16. Saeedi, A.A., Khoshbavar Rostami,H., Kamgar,M., Rezvani,Z., **Zorriehzahra,M.E.J.**, Sharifpour,I. (2004). Comparison of some important hematological and serum biochemical parameters in healthy and diseased Golden gray mullet (*Liza auratus*) fishes in southern coasts of Caspian Sea.4th International Conference of Iran & Russia,Shahr-e- Kord, Iran.
17. **Zorriehzahra M.E.J.**, Soltani M., Fallahi R. and Kargar-Moakhar R. (2004). Virological and Serological study on Infectious Pancreatic Necrosis (IPN) Disease in some Iranian rainbow trout farms. 2nd Iranian Congress on Virology, Tehran, Iran.
18. Fallahi R., Kargar-Moakhar R., Soltani M., **Zorriehzahra M.E.J.** (2004). Isolation of the Infectious Haematopoietic Necrosis Virus (IHNV)-like agent from farmed rainbow trout (*Oncorhynchus mykiss*) spawners in Iran, 2nd Iranian Congress on Virology, Tehran, Iran.
19. Fallahi R., Soltani M., **Zorriehzahra M.E.J.** and Hemmatzadeh F. (2004) Serological diagnosis of Infectious Haematopoietic Necrosis Disease in some rainbow trout farms in Iran by IFAT, The Second Iranian Congress of Fish Health & Diseases, Tehran, Iran.
20. **Zorriehzahra M.E.J.**, Soltani M., and Fallahi R. (2004) Serological surveys of IHN, IPN and VHS by ELISA in some rainbow trout farms in Iran. The Second Iranian Congress of Fish Health & Diseases, Tehran, Iran.
21. Saeidi A.A., Soltani M., **Zorriehzahra M.E.J.**, and Fallahi R. (2004) Haematological and Enzymatic scurvies in rainbow trout spawners and relation to fry trout mortality in some

rainbow trout farms in Iran. The Second Iranian Congress of Fish Health & Diseases, Tehran, Iran.

22. Sharifpour E., Soltani M., **Zorriehzahra M.E.J.**, and Fallahi R. (2004) Pathological survives in fry trout mortality syndrome in some cold water farms in Iran, The Second Iranian Congress of Fish Health & Diseases, Tehran, Iran.
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of Oman Sea and Persian Gulf with Histopathology and Hematology methods. 18th Iranian Veterinary Conference, (Poster Presentation), Tehran, Iran.

93. **Zorriehzahra, M.E.J,** Amirikar,M., Motallebi, A.A, Azadikhah, D., Kakoolaki, Sh., Nekouifard, A., and Behboudi, N. (2014). Isolation and identification of *Yersinia ruckeri* as causative agent of Enteric Redmouth Disease (ERM) in Rainbow trout (*Oncorhynchus mykiss*) cultured in west Azerbaijan province, Iran, 18th Iranian Veterinary Conference, (Poster Presentation), Tehran, Iran.

BOOK PREPARATION:

1. Principles of hygiene and prevention of cattle and buffalo diseases. (Manual Book, Ministry of Jihad-e-sazandegi, Imam Khomeini Training Institute (2002)
2. Preparation and writing of six Persian Handbooks about Fish Diseases as follows:
 - 1) Salmonid Bacterial Diseases
 - 2) Salmonid Viral Diseases
 - 3) Salmonid Fungal Diseases
 - 4) Warm water Fish Bacterial Diseases
 - 5) Warm water Fish Viral Diseases
 - 6) Warm water Fish Parasitic Diseases

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ACADEMIC THESIS SUPERVISOR & ADVISOR:

- 1) "**The study on bacterial infections in rainbow trout (*Oncorhynchus mykiss*) fish and their relationship with some water physicochemical factors in some rearing cold water farms in Kerman province**" as advisor of Ms. Laleh Yazdanpanah Goharrizi, M.Sc student in Microbiology field and carried out on 2000 summer in Azad University (Jahrom Branch).
- 2) "**Isolation, detection and confirmation of the agent causing vibriosis in warm water fish farms in Uremia**" as advisor of Mr. Soroush Ghodrati-zadeh D.V.M

student in Veterinary field and carried out on autumn 2009 in Azad University (Uremia Branch).

- 3) **Effects of Ultraviolet-B radiation on morphological malformation and eye structure in first larvae of *Oncorhynchus mykiss***" as advisor of Mrs. Zahra Darghahi, M.Sc student in Marine Biology field and carried out on Feb.2010 in Tarbiat Moddares University (Nour Branch).
- 4) **"Effects of Ultraviolet-B radiation on mortality percent and skin structure in eggs and first larvae of *Oncorhynchus mykiss*"** as advisor of Mrs. Sommayeh Abedi, M.Sc student in Marine Biology field and carried out on Feb.2010 in Tarbiat Moddares University (Nour Branch).
- 5) **"Investigation on Viral Nervous Necrosis (VNN) in Iranian water of Caspian Sea"** as advisor of Mr. Alireza Nazari, Ph.D candidate in Aquatic Animal Health & Diseases field and carried out on Aug.2011 in University of Putra Malaysia (UPM).
- 6) **"Effect of Astaxanthin, lutein and Red Bell pepper Pigments on growth, Coloration and immune factors of Rainbow Trout (*Oncorhynchus mykiss*)"** as advisor of Mrs.Maedeh Talebi, M.Sc student in Aquaculture field and carried out on Sep.2011 in Azad University (Lahijan Branch).
- 7) **"Effect of Natuzyme plus Enzyme and Hemicell on growth rate, Immune system and hematological parameters of Caspian Sea salmon (*Salmo trutta caspius*)"** as advisor of Mr. Ali Azam Esmaeili M.Sc student in Aquaculture field and carried out on Sep.2011 in Azad University (Lahijan Branch).
- 8) **"Effects of ovaprim (SGnRHa+Dampridon) and Luteotropin Releasing Hormoned-Ala Analog (LRH-A2) on spawning, hatching and larval survival of Caspian salmon *Salmo trrutta caspius* Kessler, 1870"** as advisor of Mr.

Amin Farahi, M.Sc student in Aquaculture field and carried out on Sep.2011 in University of Agricultural Sciences & Natural Resources of Gorgan (GUASNR).

- 9) **"The study on infectious agents (viral) of (*Liza klunzingeri*) mortality with using Histopathologic and Serologic (IFAT) methods in southern coastline of I.R.IRAN"** as supervisor of Mr.Omid Koohkan M.Sc student in Histology and carried out on Sept. 2012 in Khoramshahr Marine Science and Technology University.

- 10) **"Evaluating the effect of Cinnamon powder on Growth indexes and blood parameters of gold fish (*Carassius auratus*)"** as advisor of Mr.Younes Rozi M.Sc student in Aquaculture field and has been started since Sep.2011 in Azad University (Tehran North Branch).

- 11) **Study on effects of using of turmeric powder in feeding regime of ornamental fish (*Andinocara rivulatus*) and Growth Index, change of apparent color of the fish body and blood parameters measuring** as advisor of Mr.Yazdan Batmani M.Sc student in Aquaculture field and has been started since Sep.2011 in Azad University (North Tehran Branch).

- 12) **"Effect of *Zataria multiflora* Bioss essential oil on complements system of rainbow trout (*Oncorhynchus mykiss*)"** as advisor of Mrs. Tayebeh Zarifmanesh M.Sc student in Aquaculture field and carried out on Feb.2012 in Azad University (Sciences & Research Branch).

- 13) **Isolation and identification of virulent *Yersinia ruckeri*: the causative agent of enteric redmouth disease in rainbow trout (*Oncorhynchus mykiss*) cultured in West Azerbaijan province, Iran"** as supervisor of Mr.Mehrdad Amirikar D.V.M student in Veterinary field and carried out on Sept.2013 in Azad University (Uremia Branch).

- 14) **"Study on health status and relation between environmental factors and health management with occurrence of bacterial diseases such as enteric redmouth disease (ERM) in rainbow trout (*Oncorhynchus mykiss*) cultured in West Azerbaijan province, Iran"** as supervisor of Mr. Nima Behboudi D.V.M student in Veterinary field and carried out on Sept.2013 in Azad University (Uremia Branch).
- 15) **"The study on the effects of Chlorella algae extracts with phenolic and aquatic methods on increment of immune system, growth, survival and hematological parameters of Ornamental (Guppy & Zebra fish) in form of in vivo against Viral Nervous Necrosis disease (VNN)"** as supervisor of Ms. Afra Saberi Ph.D candidate in Aquatic animal Health & Diseases field and carried out on March .2016 in Azad University (Research & Sciences Branch).
- 16) **"Study on hematological effects of Viral Nervous Necrosis (VNN) disease on blood table and parameters of Golden grey mullet (*Liza auratus*, Risso 1810) fish in southern coastline of Caspian Sea"** as supervisor of Mr. Javad Masoudi M.Sc student in Aquaculture field and carried out on Feb.2013 in Azad University (Savadkouh Branch).
- 17) **"Study on hematological effects of Viral Nervous Necrosis (VNN) disease on blood enzymes and serum parameters of Golden grey mullet (*Liza auratus*, Risso 1810) fish in southern coastline of Caspian Sea"** as supervisor of Mr. Ahmad Rezaei M.Sc student in Aquaculture field and carried out on Sept.2013 Dec.2012 in Azad University (Savadkouh Branch).
- 18) **"Study on the effect of Ultrasonic waves as laboratory scale on the control of bacterial populations, *Yersinia ruckeri* pathogen in the Cold water farms of Iran"** as advisor of Mr. Khalil Khorami M.Sc student in Aquaculture field and carried out on Feb.2013 in Azad University (Marine Sciences & Biotechnology Branch).

- 19) **"Investigation on Viral Nervous Necrosis (VNN) in Mugilidae fish (*Liza klunzingeri* & *Mugil cephalous*) of Oman Sea and Persian Gulf with Histopathology, Serology (IFAT) and Electron Microscope (TEM) methods"** as supervisor of Ms. Vida Sarbandi M.Sc student in Aquaculture field and carried out on Feb.2013 in Sistan & Balouchestan University.
- 20) **"A comparative study to evaluate the effect of ethanol extract and nano-encapsulation of *Mentha piperita*, *Achillea wilhelmsii* C. Koch on growth performance, survival rate, hematological parameters and some serum biochemical parameters of *Oncorhynchus mykiss* and the effects on promote the immune system of fish in challenging with *Yersinia ruckeri*"** as supervisor of Mr. Milad Adel Ph.D candidate in Aquatic animal Health & Diseases field and has been started since Oct.2012 til Nov.2015 in Mazandaran Research Center of IFRO.
- 21) **"The study on antiviral effects of Garlic (*Allium sativum* L.) and (*Olea Europaea* L.) on causative agent of Spring Viraemia of Carp (SVC) In vitro (Cell culture) and In vivo (Carp Juveniles)"** as supervisor of Ms. Atefeh Karimi Pashaei Ph.D candidate in Aquatic animal Health & Diseases field and has been started since Oct.2012 in Guilan Inland Aquaculture Research Center of IFRO.
- 22) **"An experimental study on pathogenicity of *Flavobacterium psychrophilum* in Rainbow trouts that were feeding by bactocell in Kermanshah province of Iran"** as supervisor of Mr. Amir Hossein Aryan Ph.D candidate in Aquatic animal Health & Diseases field and has been started since Sept.2012 in in Azad University (Research & Sciences Branch).
- 23) **"The Effect of various Spirulina powder levels (*Spirulina platensis*) in diet on Growth performance , Body composition, Coloration, Hematological**

factors and Resistance to salinity stress in Caspian Sea salmon parr (*Salmo trutta caspius*)” as Co-supervisor of Ms. Arezo Meshkat Rohani Ph.D candidate in Aquaculture field and has been started since Oct.2012 in Guilan Inland Aquaculture Research Center of IFRO.

24) “Study on effects of using of ethanol extraction of orange (*Citrus sinensis* L.) peel on specification of bacterial, chemical and organoleptic of Sturgeon fillet” as supervisor of Mrs. Fereshteh Oraei M.Sc student in Food Industries field and carried out on Sept.2015 in in Azad University (Research & Sciences Branch).

25) “The feasibility of killed Betanodavirus vaccine production against viral nervous necrosis agent and evaluation of it’s efficacy and immunogenicity in Persian Sturgeon (*Acipenser persicus*)” as supervisor of Ms. Fatemeh Hassantabar Ph.D candidate in Aquaculture field and has been started on Nov.2015 in in Sari Agriculture Sciences and Natural Resources University Azad University (Research & Sciences Branch).

TECHNICAL SKILLS AND ABILITIES:

- Well adapted to working in Management, epidemiological assay, Veterinary diagnosis field and laboratory setting.
- Technical experience in Large & Aquatic animal affaires, good experiences in Virological, serological and immunological diagnostic methods (Cell culture, ELISA, FAT,IHC,etc.)
- Work well both independently and a teamwork.
- Enjoy team working in the wide variety of Research Projects and executive affaires.

- Endnote, Power point, Photoshop, Excel and Word processing and SPSS soft wares.
- Energetic and working with enthusiasm in Management, Aquatic Animal Diseases and Veterinary epidemiological fields.

REFERENCES:

Available upon request

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