

### **Personal information**

- Name: Sara
- Surname: Mirzaie
- Nationality: Iranian
- Date and place of birth: 30/4/1982- Tehran

### **Current position and address**

- Assistant Professor
- Department of Agriculture, Iranian Research Organization for Science and Technology (IROST)
- Sh. Ehsani Rad St., Enqelab St., Parsa Sq., Ahmadabad Mostoufi Rd., Azadegan Highway, P.O. Box: 33535111, Tehran, Iran
- Tel: (+9821)56276031-2
- Email: smirzaie@irost.ir

### **Education**

- Doctor of Veterinary Medicine (DVM), 2000- 2006. Graduated while acquiring the highest score.
- Thesis Project: Isolation and characterization of paratyphoid Salmonellae from captured house sparrows around poultry farms near Tehran. Faculty of Veterinary Medicine- University of Tehran.
- PhD of Poultry Health and Diseases, 2006- 2011. The highest score in entrance exam.
- Thesis Project: Isolation and characterization of *Ornithobacterium rhinotracheale* from commercial turkeys, quails and domestic pigeons. Faculty of Veterinary Medicine- University of Tehran.

## Experiences

- Head of department of Animal, poultry and aquatic, 1392-1394.
- Official reviewer for research projects submitted to International Khwarizmi Award.
- Official reviewer for inventory and innovative applications, Iranian Intellectual Property Office

## Published articles

- **Mirzaie, S.**, Hassanzadeh, M., & Ashrafi, I. (2010). Identification and characterization of *Salmonella* isolates from captured house sparrows. *Turkish Journal of Veterinary and Animal Sciences*, 34(2), 181-186.
- Hassanzadeh, M., Maddadi, M., **Mirzaie, S.**, Assasie, K., & Moayyedian, H. (2010). Partial pressure of carbon dioxide in the venous blood of young birds as a predictor of ascites susceptibility in broiler chickens. *Acta Veterinaria Hungarica*, 58(2), 221-230.
- Chashni, S. H. E., Hassanzadeh, M., Fard, M. H. B., & **Mirzaie, S.** (2009). Characterization of the *Salmonella* isolates from backyard chickens in north of Iran, by serotyping, multiplex PCR and antibiotic resistance analysis. *Archives of Razi Institute*, 64(2), 77-83.
- **Mirzaie, S.**, Hassanzadeh, M., Bozorgmehrifard, M. H., & Banani, M. (2011). Isolation and characterization of *Ornithobacterium rhinotracheale* in the commercial turkey, quail flocks and domestic pigeons by bacteriological and molecular methods. *Archives of Razi Institute*, 66(2), 121-127.
- **Mirzaie, S.**, Hassanzadeh, M., Bashashati, M., & Barrin, A. (2011). *Campylobacter* occurrence and antimicrobial resistance in samples from ceca of commercial turkeys and quails in Tehran, Iran. *International Research Journal of Microbiology*, 2, 338-342.
- **Mirzaie, S.**, & Hassanzadeh, M. (2013). Molecular and phylogenetic characterization of *Ornithobacterium rhinotracheale* isolates from turkey, quail, partridge and domestic pigeon in Iran. *Journal of Animal and Poultry Sciences*, 2(3), 79-84.
- Madadi, M., **Mirzaie, S.**, & Hassanzadeh, M. (2015). Comparison Study on Colonization of h1A Mutant and Parent Strains of *Salmonella* Enteritidis in Vertically Infected Broiler Chickens. *Journal of Medical Bacteriology*, 3(3-4), 1-7.
- Hassanzadeh, M., Niaki, M., Ahmad, A., Babapour, V., Mohit, A., & **Mirzaie, S.** (2016). A study of the employment of melatonin supplementation and darkness regime on

reducing the negative effects of acute heat stress and mortality in broiler chickens. *Iranian Journal of Veterinary Medicine*, 10(1), 7-17.

- **Mirzaie, S.**, Zirak-Khattab, F., Hosseini, S. A., & Donyaei-Darian, H. (2018). Effects of dietary *Spirulina* on antioxidant status, lipid profile, immune response and performance characteristics of broiler chickens reared under high ambient temperature. *Asian-Australasian journal of animal sciences*, 31(4), 556-563.
- Manafi, M., Hedayati, M. & **Mirzaie, S.** (2018). Comparative effect of *Bacillus* Spp. and *Lactobacillus* Spp. as probiotics in broilers: Effects on performance, immunity, intestinal histology and cecal microflora. *South African Journal of Animal Science*, 48(2), 379-389.
- **Mirzaie, S.**, Sharifi, S. D., & Zirak-Khattab, F. (2020). The effect of a Chlorella by-product dietary supplement on immune response, antioxidant status, and intestinal mucosal morphology of broiler chickens. *Journal of Applied Phycology*, 32(3), 1771-1777.
- **Mirzaie, S.**, Tabarsa, M., & Safavi, M. (2021). Effects of extracted polysaccharides from a Chlorella vulgaris biomass on expression of interferon- $\gamma$  and interleukin-2 in chicken peripheral blood mononuclear cells. *Journal of Applied Phycology*, 33(1), 409-418.

### **Book**

- Fatemi, S. A. and **Mirzaie, S.** (2012) Pharmacotherapy of companion birds, Nourbakhsh Publishing. Tehran- Iran

### **Teaching experiences**

- “Biochemistry”, “Physiology”, “Immunology” and “hormones”, education courses for MSc of Animal Science.

### **Conferences**

- The prevalence of *Salmonella* isolates from captured house sparrows and determination of antimicrobial resistance. 15<sup>th</sup> World Veterinary Poultry Congress. Beijing, China, 2007.
- The role of vitamin D in sudden death syndrome of broiler chickens. 15<sup>th</sup> Iranian Veterinary Congress. Tehran, Iran, 1387.
- Etiology and treatment of lead poisoning in a pet grey African parrot. 4<sup>th</sup> National Symposium of Poultry Diseases. Shahrekord, Iran, 1387.

- Determination of *Salmonella* serotypes isolated from house sparrows by multiplex PCR. 4<sup>th</sup> National Symposium of Poultry Diseases. Shahrekord, Iran, 1387.
- The effects of using plants with antioxidant properties in the control of coccidiosis in broiler chickens. The 1<sup>th</sup> international Veterinary Pharmacology Congress. Tehran, Iran, 1387.
- Evaluation of *Ornithobacterium rhinotracheale* infection in domestic pigeon by molecular and bacteriological methods. 2<sup>th</sup> International Veterinary Poultry Congress. Tehran, Iran, 1388.
- A clinical report of necrohemorrhagic enteritis and hepatitis associated with *Histomonas meleagridis* infection in pigeon. 2<sup>th</sup> International Veterinary Poultry Congress. Tehran, Iran, 1388.
- Molecular and phylogenetic characterization of *Ornithobacterium rhinotracheale* isolates from quail flocks in Tehran. 7<sup>th</sup> Convention of Iranian Veterinary Clinician. Tehran, Iran, 1390.
- The necessity for wild life monitoring for prevention of bioterrorism. National conference of Passive Defense in Agriculture. Qeshm island, Iran, 1392.
- Importance of biosecurity for the control of highly pathogenic avian influenza. National conference of Passive Defense in Agriculture. Qeshm island, Iran, 1392.
- The use of broiler chicken litter in the nutrition of cattle, an opportunity created by the threat. 4<sup>th</sup> national conference of Society of Holstein cow. Tehran, Iran, 1392.
- Determination of prevalence and antimicrobial resistance of *Campylobacter* isolated from turkey and quail. 4<sup>th</sup> International Veterinary Poultry Congress. Tehran, Iran, 1392.
- A review of environmental consequences of industrial poultry production. National Conference of New Ideas in Agriculture. Boroujerd, Iran, 1393.
- Synthesis of organic zinc compound for use in poultry nutrition. National Conference of New Technologies in Agriculture and Natural Resources. Rasht, Iran, 1394.
- The effect of *Spirulina platensis* supplement on antioxidant parameters and serum lipid profile of broiler chickens under heat stress. 7<sup>th</sup> Iranian Animal Science Congress. Karaj, Iran, 1395.
- Bioavailability of Nano zinc- methionine feed supplement synthesized by new method. 1<sup>th</sup> Applied Chemistry Seminar. Tabriz, Iran, 1395.

- The effects of Spirulina on immune response and performance of broiler chickens reared in high ambient temperature. 20<sup>th</sup> World Veterinary Poultry Congress. Edinburgh, Scotland, 2017.
- Seminar on molecular biology of infectious bursal disease virus and reoviruses. Faculty of Veterinary Medicine, University of Tehran.
- Seminar on the role of metapneumoviruses in avian respiratory diseases. Faculty of Veterinary Medicine, University of Tehran.
- Seminar on west Nile virus as an important arbovirus in birds and human. Faculty of Veterinary Medicine, University of Tehran.

**Research interests**

- Immunomodulators, Avian Microbiology and Immunology