

CURRICULUM VITAE

Personal Information



Dr. Seyed Reza Hashemi

Associate Professor at Faculty of Animal Science

Gorgan University of Agricultural Sciences and Natural Resources,
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Degrees

- 1- **Doctor of Philosophy (PhD)** in Poultry Physiology, Universiti Putra Malaysia, 2010.
Thesis title: Selected Herbal Plants as Growth and Health Promoters in Broiler Chickens.
- 2- **Master of Science (M.Sc) in Animal Nutrition**, Gorgan University of Agricultural Sciences and Natural Resources, 2006. First Class Award.
Thesis title: Effect of Betain Supplementation in Diet with Different Level of Protein on Broiler Chickens Performance under Heat Stress Condition

Grants, Awards, and Honors

- First class lab tutor in Gorgan University of Agricultural Sciences and Natural Resources, 2005.
- **Young Scientist Award** (2009, Alltech), First place, National level, Malaysia.
Bronze Medal Awarded. 2009. Zulkifli, I., S. R. Hasheimi, M. Nazrul Hakim, Z. Zunita, M. Hair Bejo and T. C. Loh. Herbal Plant as a Growth and Health Promoter in Poultry. Pameran Reka Cipta, Penyelidikan dan Inovasi. 28-30 July. (PRPI 2009).
- **Research Fellowship** (Grant NO (05-01-04-SF0182) from the Ministry of Science, Technology and Innovation, Malaysia)
- Valuable entrepreneur in the best entrepreneur's festival of Golestan province in 2016
- The country's top researcher in the 2020 Hesabi Festival (IRAN)

Patent

- Animal Feed with Herb Extract (PI0083502-2009), Malaysia

Professional Experience Research Assistant

Department of Animal Science, University Putra Malaysia, 2006-2009

- **Teaching Assistant**

Department of Animal Science, Universiti Putra Malaysia, 2006-2009

1- Poultry science (SHW 3510)

2- Non-Ruminant Production (SHW 3202)

❖ Department of Animal Science, Gorgan University of Agricultural and Natural Resources

Executive records

- **Head of Animal Genetics and Breeding and Physiology Department from 28/4/2013 to 26/11/2016**
- **Vice President of Association of Parents and Teachers, Golestan Province, from 2015 to 2018**
- **President of the Association of Parents and Teachers for six years (the selected national association for four years)**
- **Director of the Center for the Development of Technological Units of the University of Agricultural Sciences and Natural Resources**
- **Member of the Council of the Center for the Growth of Technological Units of the Gorgan University of Agricultural Sciences and Natural Resources**

Member of the purchase committee of laboratory equipment and materials of the Gorgan University of Agricultural Sciences and Natural Resources
- **Member of the monitoring and evaluation committee of higher education units in Golestan province, Iran**
- **Member of Golestan Province Research Week**
- **Internal manager of Poultry Science Journal**
- **Secretary of the conference (the first national conference of applied researches and achievements.....)**
- **Advisor of the Scientific Association of the Gorgan University of Agricultural Sciences and Natural Resources**

Special Trainings

- **Special Trainings in Oversea**

- ✓ A New Method for Determining Aflatoxins, ICRISAT (International Crops Research Institute for the Semi-Arid Tropics), 21 August-15 September 2006, India.

- **Special Trainings in Iran**

- ✓ Training course at Babolkenar Line Poultry Breeding Center.
- ✓ Advanced Instruments Laboratory Apparatus, 2005, Animal Science Research Institute, Karaj, Iran.

Workshop

- **Professional Workshop in Oversea**

- ✓ Obtaining Ultra High Speed & High Resolution Using AGILENTs HPLC Columns- Save Time & Money. 7th April, 2008. INSTITUTE OF BIOSCIENCE. UPM. Malaysia.

- **Professional Workshop in Iran**

1. Acquaintance with new scientific methods in bee breeding. 2010. Animal Science Research Institute of Iran.
2. Evaluation of animal husbandry issues in Golestan province. 2005. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran.
3. Application of gene transfer methods and molecular markers. 2005. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran.
4. Acquaintance with new methods of diagnosing plant viruses and biotechnology. 2005. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran.
5. Certificate from technical and vocational education organization. Horse breeding and feeding course. 2016. Gorgan. Iran.

Lab Instrument and Method Skills

1. RIA (Radioimmunoassay)
2. Tissue-Processing and Paraffin- Embedding Technic (Histological Study)
3. Gas Chromatography for Determine of Fatty Acid Profile
4. ELISA (Enzyme-Linked Immunosorbent Assay)
5. Antibacterial Sensitivity Test
6. Basic microbiology
7. Western Blot (Protein immunoblot)
8. Phytochemical Screening
9. Nutrition Analysis (Soxhlet, Bomb calorimetry, Kjeldahl, Fibertec system)
10. Antioxidant activity (TBAR's)
11. Animal Nutrient Digestibility (*in vitro* and *in vivo*)

Publications Books

1. Heat stress in poultry (Persian, 2005)
2. Blood Parameters in Poultry (Persian, 2005)

Membership in Scientific Societies

- ✓ Member of World Poultry Science Association (WPSA)
- ✓ Member of Iranian Society of Medicinal Plants
- ✓ Member of Iranian Society of Microbiology

Journal Articles

1. **Hashemi, S. R.**, I. Zulkifli, Z. Zunita, and M. N. Somchit. 2008. The effect of selected sterilization methods on antibacterial activity of aqueous extract of herbal plants. *Journal of Biological Science*. 8: 1072-1076.
2. **Hashemi, S. R.**, I. Zulkifli, M. Hair Bejo, A. Farida, and M. N. Somchit. 2008. Acute toxicity study and phytochemical screening of selected herbal aqueous extract in broiler chickens. *International Journal of Pharmacology*. 4: 352-360.
3. Maroufyan, E., A. Kasim, **S. R. Hashemi**, T. C. Loh, M. Hair Bejo and H. Davoodi. 2010. The effect of methionine and threonine supplementations on immune responses of broiler chickens challenged with infectious bursal disease. *American Journal of Applied Sciences*. 7: 44-50.
4. Maroufyan, E., A. Kasim, **S. R. Hashemi**, T. C. Loh, and M. Hair Bejo. 2010. Change in growth performance and liver function enzymes of broiler chickens challenged with infectious bursal disease virus to dietary supplementation of methionine and threonine. *American Journal of Animal and Veterinary Sciences*. 5: 20-26.
5. Maroufyan, E., A. Kasim, **S. R. Hashemi**, T. C. Loh, and M. Hair Bejo. 2010. Responses of Performance and Differential Leukocyte Count to Methionine and Threonine Supplementations on Broiler Chickens Challenged with Infectious Bursal Disease in Tropical Condition. *Asian Journal of Biological Sciences*. 3: 68-76.
6. **Hashemi, S. R.**, and H. Davoodi. 2010. Phytochemicals as new class of feed additive in poultry industry. *Journal of Animal and Veterinary Advance*. 9: 2955-2304. (Review Article).
7. **Hashemi, S. R.**, and H. Davoodi. 2011. Herbal plants and their derivatives as growth and health promoters in animal nutrition. *Veterinary Research Communications*. 35: 169-180.
8. **Hashemi, S. R.**, and H. Davoodi. 2012. Herbal Plants as New Immunostimulator in Poultry Industry: A Review. *Asian Journal of Animal and Veterinary Advances*. 7: 105-116.
9. **Hashemi, S. R.**, I. Zulkifli, H. Davoodi, Z. Zunita and M. Ebrahimi. 2012. Growth Performance, Intestinal microflora, Plasma Fatty Acid Profile in Broiler Chickens Fed Herbal Plant and Acidifiers. *Animal Feed Science and Technology*. 178: 167-174.
10. **Hashemi, S. R.**, I. Zulkifli, M. N. Somchit, Z. Zunita, T. C. Loh, A. F. Soleimani and S. C. Tang. 2013. Dietary supplementation of *Zingiber officinale* and *Zingiber zerumbet* to heat-stressed broiler chickens and its effect on heat shock protein 70 expression, blood

parameters and body temperature. *Animal Physiology and Animal Nutrition*. 97: 632-638.

11. Davoodi, H., **S. R. Hashemi** and H. F. Seow. 2012. Increased NF κ -B Activity in HCT116 Colorectal Cancer Cell Line Harboring TLR4 Asp299Gly Variant. *Iran J Allergy Asthma Immunol*. 11: 121-132.
12. Zulkifli, I., **S.R. Hasheimi**, M.N. Somchit, Z. Zunita, T.C. Loh, A.F. Soleimani and S.C. Tang. 2012. Effects of *Euphorbia hirta* and virginiamycin supplementation on performance, digestibility, and intestinal microflora population in broiler chickens. *Arch. Geflugelkd*. 76 (1): 6-12.
13. Soleimani, A. F, I, Zulkifli, M. Hair-Bejo, M. Ebrahimi, S.D. Jazayeri, **S. R. Hashemi**, A. Meimandipour, Y. M. Goh. 2012. Epigenetic modification: possible approach to reduce *Salmonella enterica* serovar enteritidis susceptibility under stress conditions. *Avian patholog*. 41: 351–354.
14. Jafari Ahangari, Y., **S. R. Hashemi**, A. Akhlaghi, H. Atashi, Z. Esmaili, M. Ghorbani, A. Mehmandoyi, R. Mastani, A. Azadegan and H. Davoodi. 2013. Effect of in ovo injection of royal jelly on post-hatch growth performance and immune response in broiler chickens challenged with Newcastle disease virus. *Iranian Journal of Applied Animal Science*. 3 (1): 201-206.
15. Akhlaghi, A., Y. Jafari Ahangari, **S. R. Hashemi**, B. Navidshad, Z. Ansari Pirsaraei, H. Deldar, M. R. Ebrahimi, M. Dadpasand, H. Atashi, and J. B. Liang. 2013. Prestorage in ovo injection of biological buffers: An approach to improve hatchability in long-term stored eggs. *Poultry Science*. 92: 847-881.
16. Akhlaghi, A., M. J. Zamiri, Y. Jafari Ahangari, H. Atashi, Z. Ansari Pirsaraei, H. Deldar, A. N. Eghbalian, A. A. Akhlaghi, B. Navidshad, K. Yussefi Kelarikolaei, and **S. R. Hashemi**. 2013. Oral exposure of broiler breeder hens to extra thyroxine modulates early adaptive immune responses in progeny chicks. *Poultry Science*. 92: 1040-1049.
17. Davoodi, H., **S. R. Hashemi** and H. F. Seow. 2013. 5-Fluorouracil Induce the Expression of TLR4 on HCT116 Colorectal Cancer Cell Line Expressing Different Variants of TLR4. *Iranian Journal of Pharmaceutical Research*. 12: 453-46.
18. Tajodini M. F. Samadi, **S.R. Hashemi**, S. Hassani, M. Shams-Shargh. 2014. Effect of different levels of Artichoke (*Cynara scolymus* L.) powder on the performance and immune response of broiler chickens. *International Journal of AgriScience*. 4: 66-73.
19. **Hashemi, S. R.**, I. Zulkifli, H. Davoodi, M. Hair bejo and T.C. LOh. 2014. Intestinal histomorphology changes and serum biochemistry responses of broiler chickens fed herbal plant (*Euphorbia hirta*) and mix of acidifier. *Iranian Journal of Applied Animal Science*. 4(1): 95-103.
20. Akhlaghi, A., Y. Jafari Ahangari, B. Navidshad, Z. Ansari Pirsaraei, M. Zhandi, H. Deldar, M. R. Rezvani, M. Dadpasand, **S. R. Hashemi**, R. Poureslami, and E. D. Peebles. 2014.

Improvements in semen quality, sperm fatty acids, and reproductive performance in aged Cobb 500 breeder roosters fed diets containing dried ginger rhizomes (*Zingiber officinale*). *Poultry Science*. 93(5): 1236-1244.

21. Effati, M., F.Samadi, B.Dastar, M.A. Azari, and **S. R. Hashemi**. 2014. Effects of different levels of artichoke (*Cynara scolymus*) on growth performance and immune responses of broilers under heat stress. *Iranian Journal of Applied Animal Science*.4(2): 399-403.
22. **Hashemi, S.R.**,D. Davoodi, B. Dastar, N. Bolandi, M. Smaili, andMastani, R. 2014. Meat quality attributes of broiler chickens fed diets supplemented with silver nanoparticles coated on zeolite. *Poultry Science Journal*. 2 (2): 183-193.
23. **Hashemi, S. R.**, and H. Davoodi. 2014. New generation of natural bioactive compounds as immunostimulators. *Global Journal on Advances Pure and Applied Sciences*. 4: 48-50.
24. **Hashemi, S. R.** 2014. The impacts of the poultry industry on the environment pollution. *Global Journal on Advances Pure and Applied Sciences*. 4: 51-56.
25. Tajodini M. F. Samadi, S. Hassani, **S. R. Hashemi**, and S. Samadi. 2015. Influence of artichoke (*Cynara scolymus*) leaf powder on growth performance, carcass traits and blood parameters in broiler chickens. *Iranian Journal of Applied Animal Science*. 5: 141-146.
26. **Hashemi, S. R.**, I. Zulkifli, H. Davoodi, M. Hair bejo and Z. Zunita. 2015. Effects of *Euphorbia hirta* and acidifiers supplement on resistance of broiler chickens against *Salmonella enteritidis* infection: Oral challenge model. *Iranian Journal of Applied Animal Science*. 5(4): 949-956.
27. Karimi, N., Y. Jafari Ahangari, S. Zerehdaran, A. Akhlaghi, **S. R. Hashemi**, and E. Lotfi. 2015. Effects of the dietary supplementation of chromium and vitamin C on egg quality traits in heat-stressed Japanese quails (*Coturnix coturnix japonica*). *European Poultry Science*.79: 113.
28. Ayasi. H., B. Dastar, T. Ghoorchi, **S. R. Hashemi**, and A. Tabaraei. 2016. Effect of utilization of maize silage in moult inducing diets on performance, immune response and bone quality in laying hens. *Journal of Animal and Feed Sciences*. 25: 52–57.
29. **Hashemi, S. R.**, D. Davoodi, B. Dastar, N. Bolandi, M. Smaili, and R. Mastani. 2014. Meat quality attributes of broiler chickens fed diets supplemented with silver nanoparticles coated on zeolite. *Poultry Science Journal*. 2: 183-193.
30. Falaki, M., M. Shams Shargh, B. Dastar, **S. R. Hashemi**, and A. R. Sadeghi Mahoonak. 2015. Growth performance, carcass characteristics and intestinal microflora of broiler chickens fed diets containing *Carum copticum* essential oil. *Poultry Science Journal*. 4: 37-46.
31. Namroodi, S., H. Staji, **S. R. Hashemi**, and E. Ghaemi. 2017.Dissemination of zoonotic antibiotic resistant serotypes of *Salmonella* by Caspian pond turtles, Golestan and Mazandaran Provinces, Iran. *International Journal of Enteric Pathogens*. 5(1): 30-33.

32. Jazi, V., F. Boldaji, B. Dastar, **S. R. Hashemi**, and A. Ashayerizadeh. 2017. Effects of fermented cottonseed meal on the growth performance, gastrointestinal microflora population and small intestinal morphology in broiler chickens. *British Poultry Science*. 58: 402-408.
33. **Hashemi, S. R.**, D. Davoodi, and B. Dastar. 2017. Effect of clinoptilolite coated with silver nanoparticles on meat quality attributes of broiler chickens during frozen storage. *Iranian Journal of Applied Animal Science*. 7: 321-328.
34. Abbasi, M., B. Dastar, N. Afzali, M. Shams Shargh, and **S. R. Hashemi**. 2017. Zinc Requirements of Japanese quails(*Coturnix coturnix japonica*) by assessing dose- evaluating response of zinc oxide nano-particle supplementation. *Poultry Science Journal*. 5:49-61.
35. Abbasi, A., **S. R. Hashemi**, S. Hasani. and M. Ebrahimi. 2018. Gastrointestinal Microbial Population Response and Performance of Broiler Chickens Fed with Organic Acids and Silver Nanoparticles Coated on Zeolite under Heat Stress Condition. *Iranian Journal of Applied Animal Science*. 8 (4): 685-691.
36. Rostami, S., Y. Jafari Ahangari, A. Akhlaghi, Z. Ansari Pirsaraei, **S. R. Hashemi**, and F. Saemi. 2019. Effects of Long-term Induced Hyperthyroidism on Egg Quality Traits in Cobb 500 Broiler Breeder Hens. *Poultry Science Journal*. 7:33-42.
37. Bolandi, N., **S. R. Hashemi**, D. Davoodi, B. Dastar, S. Hassani and A. Ashayerizadeh. 2021. Performance, intestinal microbial population, immune and physiological responses of broiler chickens to diet with different levels of silver nanoparticles coated on zeolite. *Italian Journal of Animal Science*. 20 (1): 497–504.
38. Abbasi, M., B. Dastar, N. Afzali, M. Shams Shargh, **S. R. Hashemi**. 2021. The Effects of Nano and Micro Particle Size of Zinc Oxide on Performance, Fertility, Hatchability, and Egg Quality Characteristics in Laying Japanese Quail. *Biological Trace Element Research*.
39. Ayasi, H., B. Dastar, T. Ghoorchi, **S. R. Hashemi**, A. Tabaraei, and Morteza Alemi. 2022. Research Note: Effect of corn silage and alfalfa meal as alternative induced molt methods to improving *Salmonella Enteritidis* resistance in laying hens. *Poult Sci*. 101:101984.

Persian Journal Articles (in Persian)

1. **Hashemi, S. R.**, B. Dastar, S. Hassani, and Y. J. Ahangari. 2006. Effect of supplementing betaine on the performance of broilers fed different quantities of protein. *J. Agric. Sci. Nutr. Resour*. 13(1), 81-90.
2. **Hashemi, S. R.**, B. Dastar, S. Hassani, and Y. J. Ahangari. 2007. Growth performance, body temperature and blood proteins in broilers in response to betaine supplement and dietary protein level under heat stress. *J. Agric. Sci. Nutr. Resour*. 14(2), 138-147.

3. **Hashemi, S. R.**, B. Dastar, S. Hassani, and Y. Jafari Ahangari. Effect of Dietary Protein Level and Feed Restriction on Performance and Body Temperature of Broilers Subjected to Heat Stress. *Journal of Crop Production and Processing*. 2007; 11 (1), 451-460.
4. Davoodi, H., **S. R. Hashemi**, H. F., Seow, and M. Ghorbani. 2009. The Comparison of different Procedures for DNA extraction from paraffin-embedded Tissues: A commercial kit and a traditional method based on heating. *Medical Laboratory Journal*. 3 (2).
5. **Hashemi, S. R.**, Y. Jafari Ahangari, N. Tajabadi. 2010. The use of phytogenics in the production of honeys with medicinal properties. *Iranian Honeybee Science and Technology*. 1 (3), 14-17.
6. **Hashemi, S. R.**, and H. Davoodi. 2012. New antibiotic replacements as growth and health promoters. *Journal of Gorgan University of Medical Science*. 13(4), 1-10.
7. **Hashemi S. R.**, B. Dastar, S. Hassani, Y. Jafari Ahangari. 2011. Physiological Responses of Male Broiler Chickens to Different Dietary Protein Level and Feed Restriction under Acute Heat Stress Condition. *Research on Animal Production*. 2(4), 1-11.
8. Davoodi, H., **S. R. Hashemi**, and H. F. Seow. 2013. Expression of T399I and D299G polymorphisms of TLR4 gene in colorectal cancer cell line by flow cytometry. *J Gorgan Uni Med Sci*. 15 (2), 47-53.
9. **Hashemi S. R.**, B. Dastar, S. Hassani, and Y. Jafari Ahangari. 2014. Effect of Trimethylglycine and Dietary Protein Levels on Blood Electrolytes and Lipids Concentrations in Broiler Chickens Subjected to Heat Stress. *Research on Animal Production*. 5(9), 13-24.
10. Mohammadi, J., B. Dastar, **S. R. Hashemi**, A. Ashayerizadeh. 2015. Determining the effect of probiotic in high or low nutrient density diets on growth performance, immune system and some blood parameters of broiler chickens. *Journal of Research in Animal Nutrition*. 1 (2), 15-27.
11. Tajodini, M., F. Samadi, **S. R. Hashemi**, and A. Ghasemnejed. 2015. Effects of different levels of artichoke (*Cynara scolymus* L.) powder and vitamin E on performance and immune system response of broiler chickens. *Iranian Journal of Medicinal and Aromatic Plants*. 31 (1), 92-101.
12. Goldani, S. H., B. Dastar, M. Shams Shargh, S. R. Hashemi, O. Ashayerizadeh. 2015. Comparison of performance of commercial laying hens and Japanese laying quails in response to containing different levels of protein and black cumin seed (*Nigella sativa* L.). *Research Letter in Poultry Science*. 1(1), 69-80.
13. Smaeili, M., **S. R. Hashemi**, D. Davoodi, Y. Jafari Ahangari, S. Hassani, N. Bolandi, and A. Shabani. 2016. The effect of silver nanoparticles coated on clinoptilolite on performance, liver enzymes and blood lipid concentrations of broiler chickens. *Animal Production*. 18 (1), 161-171.
14. Jazi, V., F. Boldaji, B. Dastar, **S. R. Hashemi**, and A. Ashayerizadeh. 2016. Effect of feeding fermented cottonseed meal on growth performance, carcass characteristics and blood serum

lipid profile of broiler chickens. *Animal Production*. 18 (2), 311-321.

15. Smaili, M., **S. R. Hashemi**, D. Davoodi, Y. Jafari Ahangari, S. Hassani, and A. Shabani. 2017. Effect of supplementing diet with zeolite coated with silver nanoparticles on performance, intestinal morphology characteristics and ileum microbial population of broiler chickens. *Iranian Journal of Animal Science*. 47 (47), 579-588.
16. Smaili, M., **S. R. Hashemi**, D. Davoodi, Y. Jafari Ahangari, S. Hassani, and A. Shabani. 2017. Effect of different levels of silver nanoparticles coated with zeolite on performance, function of superoxide dismutase and glutathione peroxidase, carcass characteristics and internal organs weight of broiler chickens. *Animal Production Research*. 5 (4), 1-11.
17. Bolandi, M., **S. R. Hashemi**, D. Davoodi, B. Dastar, S. Hassani, and A. Ashayerizadeh. 2017. Effect of coating zeolite with nanosilver on performance and efficiency of energy and protein efficiency in broiler chickens. *Iranian Journal of Animal Science*. 48 (1), 69-75.
18. Agh, G., B. Dastar, M. Shams Shargh, **S. R. Hashemi**, and R. Mirshekar. 2017. Effect of different levels of black seed (*Nigella sativa* L.) and dietary protein on performance carcass composition and blood parameters of broiler chickens. *Animal Science Journal*. 119, 115-128.
19. Arabiyan E, **S. R. Hashemi**, A. Yamchi, H. Davoodi, and S. Rostami. 2019. Evaluation of NF- κ B Gene Expression in liver tissue of Broiler Chickens fed with Silver Nanoparticles as an Indicator of Inflammation Induction in Heat Stress Conditions. *Research on Animal Production*. 10(24), 103-111.
20. Arabiyan, E., **S. R. Hashemi**, A. Yamchi, H. Davoodi, and Sh. Rostami. 2020. Evaluation of Cytochrome P450 Gene Expression as Physiological Pollution Biomarkers in Broiler Chickens Fed Silver Nanoparticles. *Journal of Veterinary Research*. 75 (2), 233-241.
21. **Hashemi, S. R.**, H. Davoodi, and E. Arabiyan. 2020. Nutrigenomics: A new approach to feed formulation. *The Journal of Qazvin University of Medical Sciences*. 24(1), 80-93.
22. Tavakoli, R., **S. R. Hashemi**, D. Davoodi, Y. Jafari Ahangari, and S. Hassani. 2020. Histopathologic investigation of liver and kidney tissues in broiler chickens fed silver nanoparticles coated on zeolite. *Journal of Animal Science*. 30 (2), 15-23.
23. Solhi Oskouyi, I., **S. R. Hashemi**, S. Hasani, and A. Ashayerizadeh. 2020. Investigation of the Effect of Silver Nanoparticles Coated on Zeolite on Performance, Intestinal Morphology and Gastrointestinal Microbial Population in Broiler Chickens under Heat Stress Conditions. *Research on Animal Production*. 11(28), 96-106.
24. Nataghi, M. K., **S. R. Hashemi**, Y. Jafari Ahangari, S. Hasani, A. Yamchi, and P. Parsaei. 2022. Evaluation of the heat shock protein 70 gene expression in brain, T4 hormone, immune characterization and performance parameters on broilers chicken fed different levels of *Descurainia sophia* under acute heat stress conditions. *Veterinary Researches and Biological Products*. 34 (4), 158-167.

25. Tahami, Z., B. Dastar, E. Oskoueian, and **S. R. Hashemi**. 2021. Evaluation of the effect of selenite-sodium and seleno-methionine on laying hens' performance and antioxidant properties of eggs. *Animal Science Journal*. 34 (132), 99-110.
26. Asghari Moghadam, M., **S. R. Hashemi**, M. Mehri, A. Karamzadeh Dehghani, and H. Davoodi. 2023. The effects of different selenium sources on sperm quality parameters in aged broiler breeder roosters. *Journal of Animal Environment*. 15 (2), 149-156.
27. Asghari Moghadam, M., **S. R. Hashemi**, M. Mehri, A. Karamzadeh Dehaghani, and H. Davoodi. 2023. The effects of different selenium sources on semen quality of aged broilers under lipopolysaccharide (LPS) stress. *Journal of Animal Environment*. 15 (23), 137-144.
28. Taheri Nasab, M., **S. R. Hashemi**, S. S. Ramzanpour, S. Rostami, and E. Arabiyan. 2023. Evaluation of Metallothionein Gene as a Biomarker in the Liver of Broilers Fed Silver Nanoparticles Coated on Zeolite in Heat Stress Conditions. *Research on Animal Production*. 14(40), 44-51.
29. Akhundpour, N., **S. R. Hashemi**, A. Farhadi, and E. Arabian. 2023. Studying the Effect of Zeolite, Organic Acid and Silver Nanoparticles Coated on Zeolite on the Expression of BAX and Bcl2 Apoptosis Genes in the Liver of Broiler Chickens. *Research on Animal Production*. 14(41), 105-115.

Articles in International Conferences

1. **Hashemi, S. R.**, I. Zulkifli, Z. Zunita, M. Hair-Bejo, T. C. Loh, M. N. Somchit, P.C. Kok, and H. Davoodi. 2009. Effects of dietary supplementation with *Euphorbia hirta* and acidifier on performance and *Salmonella* colonization in broiler chickens. In: Proceedings of the 30th Malaysia Society of Animal Production Annual Conference, 2-5 June, 2009. Kota Kinabalu, Malaysia. pp: 69-70.
2. **Hashemi, S. R.**, I. Zulkifli, M. Hair-Bejo, M. Karami, and A. F. Soleimani. 2009. The effects of *Euphorbia hirta* and acidifier supplementation on growth performance and antioxidant activity in broiler chickens. In: Proceedings of the 21st Veterinary Association Malaysia (VAM) Congress, 7-9 August, 2009. Port Dickson, Malaysia. pp: 215-217.
3. **Hashemi, S. R.**, I. Zulkifli, T. C. Loh, M. Ebrahimi and P.C. Kok. 2009. The Effect of Herbal Plant and Acidifier on Plasma Fatty Acid Profile in Broiler Chickens. The Second International Conference on Sustainable Animal Agriculture for Developing Countries (SAADC2009), 8-11 November, 2009. Kuala Lumpur, Malaysia. pp: 78-80.
4. Maroufyan, E., A. Kasim, **S. R. Hashemi**, T. C. Loh, M. Hair-Bejo and H. Davoodi. 2009. The Effect of Omega-6 to Omega-3 Ratio on Performance and Immune Responses of Broiler Chickens Challenged with Infectious Bursal Disease (IBD). The Second International Conference on Sustainable Animal Agriculture for Developing Countries (SAADC 2009), 8-11 November, 2009. Kuala Lumpur, Malaysia. pp: 75-77.

5. Maroufyan, E., A. Kasim, **S. R. Hashemi**, A. F. soleimani, T. C. Loh & M. Hair-Bejo. 2009. The Effect of Methionine and Threonine Supplementations on Immune Responses of Broiler Chickens Challenged with Infectious Bursal Disease. The Second International Conference on Sustainable Animal Agriculture for Developing Countries (SAADC 2009), 8-11 November, 2009. Kuala Lumpur, Malaysia. pp: 239-241.
6. **Hashemi, S. R.**, I. Zulkifli, M. Hair-Bejo, T. C. Loh, H. Davoodi and P.C. Kok. 2009. Morphological Changes of the Intestinal in Broiler Chickens Fed Dietary Herbal Plant and Acidifier. The International Conference on Animal Health and Human Safety. 6-8 December, 2009. Putrajaya, Malaysia. pp: 103-105.
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8. **Hashemi, S. R.**, B. Dastar, M. Ebrahimi, Y. Jafari Ahangari, S. Hassani and M. Hair Bejo. 2010. Growth performance response to dietary protein level and fasting period in heat stress challenged broiler chickens. 22nd Veterinary Association Malaysia & 4th Wildlife Society of Zoo and Wildlife Medicine. 30th July -1st August, 2010. Kuala Lumpur. pp: 314-316.
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114. Notaghi, M. K., **S. R. Hashemi**, Y. Jafari Ahangari, S. Hassani, A. Yamchi, P. Parsaie. 2018. The response of performance traits in broiler chickens fed with different levels of *Descurainia Sophia* under acute heat stress conditions. 2nd National Conference on Modern Research in Animal Sciences, April 11, Birjand. Iran.
115. Nasiri Amini. F., **S. R. Hashemi**, A. Arabian. 2019. Development of modern animal husbandry using the potential of animal biological toxins. 1th Conference on Agricultural and Environmental Sciences, June 13, Shahid Beheshti University. Tehran. Iran.
116. **Hashemi, S. R.** 2023. A look at the food industry in the future, the yellow flour beetle (*Tenebrio Nolitor*) as an alternative source of protein in human and livestock nutrition. 6th International Conference on Interdisciplinary Studies in Iranian Food Industry and Nutrition Sciences, January 18, Tehran, Iran.
117. **Hashemi, S. R.** 2023. Future technologies, edible insects, future perspective for food and food security. 6th International Conference on Interdisciplinary Studies in Iranian Food Industry and Nutrition Sciences, January 18, Tehran, Iran.
118. **Hashemi, S. R.** 2023. Entrepreneurship in the animal husbandry industry and new livestock breeding. National Conference on Knowledge-Based Agriculture and Entrepreneurship. January 25, Sari General University of Agriculture and Natural Resources, Mazandaran, Iran. Page 766-771.
119. **Hashemi, S. R.** 2023. Center for the growth of academic technological units and their role in sustainable agricultural development. National Conference on Knowledge-Based Agriculture and Entrepreneurship. January 25, Sari General University of Agriculture and Natural Resources, Mazandaran, Iran. Page 384-390.

Research Projects

1. Evaluation of the anti-tuberculosis activity of six selected medicinal plants in human monocyte cell culture. 2011. Golestan University of Medical Sciences. (Co-Worker, Research project collaboration).
2. Evaluation of the frequency of Arg677Trp and Arg753Gln 2 polymorphisms in tuberculosis patients of Golestan province. 2011. Golestan University of Medical Sciences. (Co-Worker, Research project collaboration).
3. The effect of nanosilver coated on zeolite on the growth and health of broiler chickens. 2015.

Gorgan University of Agricultural Sciences and Natural Resources. (Principle Investigator).

4. The effect of different levels of coated nanosilver on clinoptilolite in meat quality of broiler chickens after storage in the freezer. 2016. Gorgan University of Agricultural Sciences and Natural Resources. (Principle Investigator).
5. Feasibility of the plan to achieve the complete chain of poultry. 2016. Novin Iranian Farms Company. (Co-Worker, Research project collaboration).

Student Supervisory and Advisory

Supervisory and Advisory of Dissertation (PhD)

1. Marzieh Flaki. 2016. Determining the antibacterial activity of the plant extracts of zenian, cinnamon, chamomile, licorice and the effect of the most effective plant extract on the function of intestinal microbial population, immune system and blood parameters of broiler chickens. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Advisor) (Date of defense: 03/February/2016).
2. Mahmoud Abbasi. 2017. Estimating the requirement of zinc element and investigating the effect of nanoparticles and microparticles of zinc oxide on performance, blood parameters, concentration of zinc element in the liver and blood serum of Japanese quail during the breeding period, as well as egg production, egg quality and hatching chicks during the laying period. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Advisor) (Date of defense: 09/October/2017)
3. Sharif Rostami. The effect of hyperthyroidism on some parameters of reproduction in old broiler chickens of Kap 500 strain. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Supervisor) (Date of defense: 22/September/2019)
4. Almahmoud Hesam. 2021. Effect of dietary addition of sodium selenite, selenium-methionin and encapsulated selenium-methionine on the quality of male sperm fertility and hatchability in broiler breeders. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (international student, Syria) (Supervisor) (Date of defense: 19/May/2021)
5. Morteza Asghari Moghadam. 2023. The effect of dietary supplementation with different sources of selenium on reproductive and immune function of aged male broiler breeders under normal condition and immunologically induced lipopolysaccharide (LPS) (Supervisor) (Date of defense: 20/June/2023)
6. Zhila Bohlol. 2024. Designing and synthesizing microencapsules of chitosan nanoparticles of alginate and LAB and its effect on quality of male sperm fertility and hatchability in broiler breeders. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Supervisor) (Date of defense: in progress)
7. Sepide Behrouz Dehkordi. 2026. Production of the polyclonal antibody (IgY) in egg yolk against *Helicobacter pylori* (*H. pylori*) and its evaluation on animal model. Gorgan University of

Agricultural Sciences and Natural Resources, Gorgan, Iran. (Supervisor) (Date of defense: in progress)

8. Seyed Asma Mousavi. 2026. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Supervisor) (Date of defense: in progress)

Supervisory and Advisory of Thesis (M.Sc)

Supervisor

1. Mina Ismaili. 2015. Evaluation of the addition of nanosilver coated on zeolite in the diet on the performance, intestinal morphology, microbial population of the digestive tract and blood parameters of broiler chickens. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Date of defense: 06/June/2015).
2. Nilofer Blandi. 2016. The effect of zeolite coated with nanosilver on the immune system, the microbial population of the digestive system and the efficiency of energy and protein utilization in broilers. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Date of defense: 13/September/2016).
3. Aileen Solhi Oskoi. 2016. The effect of nanosilver coated on zeolite and organic acid on performance, intestinal morphology, microbial population of the digestive tract and carcass characteristics of broiler chickens under heat stress conditions. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Date of defense: 20/December/2016).
4. Azam Abbasi. 2016. Response of immune system, microbial population of digestive system and performance of broiler chickens fed with nanosilver coated on zeolite and organic acids under acute heat stress conditions. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Date of defense: 21/November/2016).
5. Rashid Tavakoli. 2017. Evaluation of the pathology of liver and kidney tissue, liver enzymes, microbial population of digestive system and performance of broiler chickens fed with nano silver coated on zeolite and organic acids. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Date of defense: 2017).
6. Sahar Aliabad. 2017. Effect of organic acid and nanosilver coated on zeolite, on performance, intestinal morphology, microbial population of the digestive tract, oxidative enzymes, energy and protein production index and efficiency in broiler chickens. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Date of defense: 2017).
7. Mohammad Kazem Notaghi. 2018. The response of heat shock protein 70 (HSP70) brain and thyroid hormones of broiler chickens to different levels of *Descurainia Sophia* during acute heat stress. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Date of defense: 17/September/2018).
8. Elnaz Arabian. 2018. Study of cytochrome oxidase P450 and NF-kB gene expression in broilers

fed with organic acid and silver nanoparticles coated on zeolite with and without heat stress. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Date of defense: 17/September/2018).

9. Fatemeh Asgharnejhad. 2018. The effect of organic acid and silver nanoparticles coated on zeolite on the expression of superoxide dismutase, glutathione peroxidase, glutathione reductase and catalase genes in broilers with and without heat stress. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Date of defense: 4/December/2018).
10. Negin Akhundpour. 2021. Study on the effect of zeolite, organic acid and silver nanoparticles coated on zeolite on the expression of BAX and bcl2 genes encoding apoptosis in broilers chickens under normal and heat stress conditions. Gorgan University of Agricultural Sciences and Natural Resources, Gorgan, Iran. (Date of defense: 2/October/2021).
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