

Curriculum Vitae

Maryam Bagheri Varzaneh,

Ph.D., Animal Science

Date of Birth: 21.09.1979

Country: Iran- Tehran



Current career: Assistant professor in Iranian Research Organization for Science and Technology (IROST) since September 2012

Education:

Ph.D: Ruminant nutrition 2003 -2009, Isfahan University of Technology, Iran

M.Sc: Animal Nutrition 2001-2003, Isfahan University of Technology, Iran

B.Sc: Animal Science 1997-2001, Isfahan University of Technology, Iran

Ph.D Thesis:

Effect of yeast and yeast cell wall carbohydrates on rumen fermentation and performance of Holstein dairy cows

M.Sc Thesis

Fermentative production of L-lysine and its effect on performance of broiler chickens

International projects

Project Title: Effect of phytobiotics or essential oils on rumen fermentation characteristics in dairy cows in vitro using the rumen simulation technique (RUSITEC). Vetmed University, Wein, Austria (2016 - 2017)

Other Projects:

Project Title: Effect of chromium supplementation on performance, blood and molecular parameters in stressed broilers

Project Title: Effect of antibacterial activity of probiotics on mastitis-causing bacteria in dairy cow

Project Title: Effect of a phytogetic supplement on performance of heat- stressed early lactation dairy cows

Project Title: In vitro evaluation of phytogetic compounds as feed additives for controlling fly larvae

in dairy farm

Project Title: Evaluation of the crude extract of *Trichoderma longibrachiatum* on the degradation of ruminants feed stuffs

Project Title: comparison of the effects of a four elements organic supplement with an inorganic mineral sources on the health of Holstein cows during the transition period

Project Title: Investigating the effects of phytobiotics or essential oils on the rumen fermentation parameters in dairy cows using the RUSITEC

Books

Translation of a book entitled "Cow signals: A practical guide for dairy farm management" written by Jan Hulsen

Member of the editorial committee of the extensional journal of Isfahan Union of Dairy Farmers which translates "**Hoard's Dairyman**" Magazine to a Persian book

Articles and Conference Proceedings:

Bagheri Varzaneh, M., M. K. Koochi, H. Ghorbankhani., 2025. Investigation of the Effects of Different Matrices in Preserving the Larvicidal Properties of Essential Oils Without Disrupting Rumen Fermentation. 11th *National Iranian Congress of Animal Sciences, Kermanshah, Iran*

Bagheri Varzaneh, M., M. Azin , 2025. In Vitro Comparison of the Effects of Fibrolytic Enzymes on Wheat Straw Degradability. 11th *National Iranian Congress of Animal Sciences, Kermanshah, Iran.*

Bagheri Varzaneh, M., M. Azin , 2025. Influence of *Trichoderma*-derived Fibrolytic Enzymes on In Vitro Total Mixed Ration (TMR) Degradability. 11th *National Iranian Congress of Animal Sciences, Kermanshah, Iran.*

Bagheri Varzaneh, M., M. K. Koochi. 2025. Larvicidal Potential of *Thymus vulgaris* Essential Oil Against House Fly (*Musca domestica*): An In Vitro Dose-Response Study. 12th National Congress on Medicinal Plants, *Tehran, Iran*

Bagheri Varzaneh, M., M. K. Koochi.,2024, Investigating the potential of *Lavandula angustifolia* essential oil to control house fly larvae, 25th Iranian Plant Protection Congress

Bagheri Varzaneh, M. 2023, The necessity of using life cycle assessment to reduce the negative effects of milk production on ecosystem. 10th National Iranian Congress of Animal Sciences, *Tehran, Iran.*

Bagheri Varzaneh, M. 2023, Biological control methods against house fly in livestock farms, 10th National Iranian Congress of Animal Sciences, *Tehran, Iran.*

Bagheri Varzaneh, M. 2023, Effects of feeding a chelated mineral supplement to late gestation ration of dairy cows on antioxidant status and blood parameters during calving. 10th National Iranian Congress of Animal Sciences, Tehran, Iran.

Bagheri Varzaneh, M., K. Akbarzadeh, M. K. Koochi, 2023, Larvicidal activity of essential oils from *Mentha pulegium* against house fly . 4th Iranian International congress of Entomology, Kermanshah, Iran.

Maryam Bagheri Varzaneh, Ali shaikhinej, 2018. Evaluation of antibacterial activity of intra-cellular and extracellular compounds of *Lactobacillus plantarum* ATCC 8014 against dairy cow mastitis –causing bacteria. 6th AFSLAB conference, Tehran, **Iran**

Renee Petri, **Maryam Bagheri Varzaneh**, Fenja Klevenhusen, Remigius Chizzola, Poulad Pourazad, Muhammad Qumar, Qendrim Zebeli. **2018**, Effects of *Scrophularia striata extract* supplementation on the rumen microbiome and fermentation *in vitro*. GfE conference in Gottingen, **Germany**

Hoseini, S. Kh., Sharifi, S. D., **Bagheri Varzaneh, M.**, Ghazanfari, Sh., Rezae, A., **2017**. Effect of chemical composition and particle size (nano and micro) of chromium in diet on the performance of broiler chicken under physiological stress. 3rd livestock conference in the North of Iran, Sari, **Iran**

Hoseini, S. Kh., Sharifi, S. D., **Bagheri Varzaneh, M.**, Ghazanfari, Sh., Rezae, A., **2017**. Effect of chemical composition and particle size (nano and micro) of chromium in diet on the blood parameter of broiler chicken under physiological stress. 3rd livestock conference in the North of Iran, Sari, **Iran**

Hoseini, S. Kh., Sharifi, S. D., **Bagheri Varzaneh, M.**, Ghazanfari, Sh., Rezae, A., **2017**. Effect of chemical composition and particle size (nano and micro) of chromium in diet on meat quality of broiler chicken under physiological stress. 3rd livestock conference in the North of Iran, Sari, **Iran**

Bagheri, M., 2017. Invitro growth inhibition of dairy cow mastitis-causing bacteria by *Lactobacillus Plantarum* ATCC 8014. 9th Asian conference on lactic acid bacteria, Gwangju, **Korea**.

Khodakarami, P., **M. Bagheri**, S. D. Sharifi, A. Mohammadi Sangcheshmeh, **2016**. Effects of high level of organic chromium supplementation on performance and carcass traits of broiler chicks. 7th national Iranian Congress of Animal and Aquatic Sciences, Tehran, **Iran**.

Khodakarami, P., **M. Bagheri**, S. D. Sharifi, A. Mohammadi Sangcheshmeh, **2016**. Effects of Chromium Supplementation on immune system organs and cells in broilers under induced stress of oral dexamethasone, 7th national Iranian Congress of Animal and Aquatic Sciences. Tehran, **Iran**

Bagheri, M., 2016. Effects of chromium-methionine on expression of glucose transporter 2 (GLUT2) in liver of broiler under physiological stress. 7th national Iranian Congress of Animal and Aquatic Sciences. Tehran, **Iran**

Bagheri, M. 2015, Effect of medium pH on antimicrobial activity of *Lactobacillus gasseri* and *Lactobacillus casei* against mastitis- causing bacteria, 3rd international Congress of Biology and Ecology, Tehran, **Iran**

Bagheri, M , 2015, Antibacterial activity of essential oils against *staphylococcus aureus* isolated from bovine mastitis, 3rd international Congress of Biology and Ecology, Tehran, **Iran**

Bagheri , M., A., Assadi Alamouti, B. Sarhandi, **2014**. Effects of Phytogenic Compounds on Heat-Stressed Holstein Dairy Cows, Proc. of the 6th national Iranian Congress of Animal and Aquatic Sciences. RN235, Tabriz, **Iran**

Bagheri, M., M. Rostamza, **2014**. Nutritional Evaluation of Seed and Pod without Seed of *Prosopis farcta* by Gas Production Technique. Proc. of the 6th Iranian Congress of Animal and Aquatic Sciences. RN234, Tabriz, Iran

Bagheri, M., G.R. Ghorbani, M. Khorvash, A. Assadi. **2010**. Effect of yeast and yeast cell wall carbohydrates on in situ degradability of feedstuffs in sheep. Proc. of the 1st National Conference on Probiotics and Functional Food. Tehran, Iran.p. 246 (Oral presentation)

Assadi Alamouti, A., M. Alikhani, G.R. Ghorbani, **M. Bagheri. 2010**. Response of early lactation cows to partial replacement of starch by neutral detergent soluble fiber sources in diets varying in forage particle size. Proc. Of the 2nd World Nutrition Forum Congress. p. 157

Assadi, A., G.R. Ghorbani, M. Alikhani, **M. Bagheri. 2009**. Effect of alfalfa hay particle size and source of neutral detergent soluble carbohydrates on intake chewing activity, ruminal fermentation and nutrient digestibility of midlactation cows. Proc. of ADSA -ASAS-CSAS. Joint Meeting. p. 92

Bagheri, M., G. R. Ghorbani, H. R. Rahmani, M. Khorvash. 2009. Effect of yeast and mannanoligosaccharides on in vitro fermentation of different substrates. BSAS Annual Conference. p. 91(Oral presentation)

Bagheri, M., G.R. Ghorbani. 2008. Determination of yeast cell wall carbohydrates degradability in rumen fluid. XXV World Buiatrics Congress Budapest, Hungary.p. 170.

Bagheri, M., G. R. Ghorbani, H. R. Rahmani, M. Khorvash, N. Nili. 2008. Effect of live yeast and mannan-oligosaccharides on performance of early lactation Holstein dairy. Proc. of the 3rd Iranian Congress of Animal and Aquatic Sciences. p.9 (Oral presentation)

Bagheri, M., G.R. Ghorbani. 2005. Effect of physical form of starter on the performance of Holstein calves. Proc. Of EAAP Meeting, Uppsala Sweden.p.17

Bagheri, M., G.R. Ghorbani, M. Azin, A. Samie. 2004. Fermentative production of L-lysine and its effect on performance of broiler chickens. Proc.of the 1st Iranian Congress of Animal and Aquatic Sciences. p.308 (Oral presentation)

Articles

Ghorbani, G.R., M. **Bagheri Varzaneh**, A. Nikkhah. **2007**. Comparison of traditional ground and commercial pelleted starters for pre-weaning Holstein calves. *Int. J. Dairy*

Sci., 2(3):287-291.

Bagheri, M., G.R. Ghorbani, H. R. Rahmani, M. Khorvash, N. Nili, K. H. Sudekum. 2009. Effect of live yeast and mannan-oligosaccharides on performance of early lactation Holstein dairy cow. *Asian-Aust. J. Anim. Sci.* 22: 812-818.

Alamouti, M. Alikhani, G.R. Ghorbani, A. Teimouri-Yansari, **M. Bagheri, 2014.** Response of early lactation Holstein cows to partial replacement of neutral detergent soluble fibre for starch in diets varying in forage particle size. *Livestock Science*, 160: 60–68

Azimzadeh, V., Assadi-Alamouti, Ali, Khadem, A. A., **Bagheri Varzaneh M. and Moradi, M. J. 2015.** Effects of supplementation of a symbiotic product on growth performance and health of Holstein calves. *Research on Animal Production* Vol. 6, No. 1

Bagheri, Varzaneh. M. (2017). *The Impact Of Chromium-Methionine Supplementation On Decreasing Deleterious Effects Of Physiological Stress In Broilers. Animal Production, 19 613-625*

Bagheri Varzaneh, M., Klevenhusen, F., Zebeli, Q., & Petri, R. (2018). *Scrophularia striata extract supports rumen fermentation and improves microbial diversity in vitro compared to monensin. Frontiers in microbiology, 9, 2164.*

Bagheri Varzaneh, M (2018) *Effect of Scrophularia striata extract on efficiency of degradation, concentration of phenolic and flavonoid compounds and antioxidant activity in ruminal fluid using a rumen simulation technique (RUSITEC). Animal Production, 20:269-280*

Khodakarami, P., **Bagheri Varzaneh, M., Sharifi, S. D., & Mohammadi-Sangcheshmeh, A. (2019).** *Effects of Chromium Supplementation on The Performance and The Blood Level of Thyroid Hormones and Cortisol of Broiler Chickens in Normal Condition and Under Physiological Stress. J Vet Res, 74(3), 348-358.*

Adami Ghamsari, F., Tajabadi Ebrahimi, M., **Bagheri Varzaneh, M., Iranbakhsh, A., & Akhavan Sepahi, A. (2021).** *In vitro reduction of mycotoxin deoxynivalenol by organic adsorbent. Journal of Food Processing and Preservation, 45(3), e15212.*

Adami Ghamsari, F., Tajabadi Ebrahimi, M., **Bagheri Varzaneh, M., Iranbakhsh, A., & Akhavan Sepahi, A. (2022).** *In vitro evaluation of the effect of the organic adsorbent on the reduction of mycotoxin Zearalenone. Applied Biology, 35(1), 7-27.*

Ghamsari, F. A., Ebrahimi, M. T., **Varzaneh, M. B., Iranbakhsh, A., & Sepahi, A. A. (2022).** *Effect of Adding an Organic Binder on Health of Cows Fed with Mycotoxins Contaminated Diet. Journal of the Hellenic Veterinary Medical Society, 73(4), 4891-4898.*

Fields of interest:

Effect of feed additives on rumen microbiota

Use of pre- and probiotics to manipulate ruminal fermentation and its effects on major ruminal bacterial population

Use of bioactive natural compounds to reduce environmental pollution caused by ruminant animal

Technologies of manufacturing and encapsulation feed additive supplements

Livestock ethology

Membership:

2007-2011: Member of editorial committee of the extensional journal of Isfahan union of dairy farmers.

2013-2015:Member of Animal Sciencel Society of Iran

2013-2015:Member of Medicinal Plant Society of Iran

2012- 2015:Technical Committee of Kharazmi International Award.

2012-2015:Technical Committee of Kharazmi Young Award.

Teaching Activities:

M.Sc. Advanced Animal Nutrition, IROST, Tehran, Iran. **2013**,
M.Sc. Identification and Application of Lab Techniques and Tools, IROST, Tehran, Iran. **2013**
M.Sc. Endocrinology, IROST, Tehran, Iran. **2014**
Bsc: Farm Animal Ethology. University of Tehran, Abouraihan Campus. **2011**
Bsc: Animal Breeding, Alborz payamenoor University, **2010**
BSc: Biochemistry, Nutrition of Small Ruminant, Animal Nutrition. Islamic Azad University, Shahrekord Branch, **2005, 2008**.
Teaching assistant: Laboratory Biochemistry (Ph.D course). Isfahan University of Technology. **2008**

Workshops Attended:

“Proteomics” Vet Core, Vetmed university, Wein, Austria, 2017
“Prezi software”, IROST, Iran, 2015
"Response Surface Methods (RSM)", IROST, Iran, 2015
"Microbiology Lab Practices and Safety Rules", IROST, Iran, 2014
"Principle of cell culture", Tehran University, 2014
“An Introduction to Gene Cloning” Shiraz University Iran, 2010
“Two Dimensional Electrophoresis” Shiraz University, Ira, 2010
“An Introduction to PCR Technique and Primer Designing” Royan Institute, Isfahan, Iran , 2009
“The Role of Fiber in Animal Nutrition” Ferdowsi University of Mashhad, 2004
“Latest in vitro Techniques in Animal Science” Ferdowsi University of Mashhad, Iran, 2008