Curriculum Vitae

Maryam Bagheri Varzaneh,
Ph.D., Ruminant Nutrition
Date of Birth: 21.09.1979

Marital Status: Married

Children: no children

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
M.Sc: Animal Nutrition 2001-2003, Isfahan University of Technology
B.Sc: Animal Science 1997-2001, Isfahan University of Technology

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 phytogenic supplement on performance of heat- stressed early lactation dairy cows

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:

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

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 Aaquatic 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 1 st 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 Sweeden.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 1 st Iranian Congress of Animal and Aaquatic Sciences. p.308 (Oral presentation)

Articles

Maryam Bagheri Varzaneh, Fenja Klevenhusen, Remigius Chizzola, Renee Petri, Poulad Pourazad, Muhammad,Qumar, Qendrim Zebeli, 2017 Supplementing *Scrophularia striata* extract mitigates methane production, enhances rumen fermentation profile, and antioxidant activity in cattle *in vitro* (under review)

Khodakarami, P., **Bagheri Varzaneh, M.,** Sharifi, S. D., Mohamadi Sangcheshmeh, Effects of chromium supplementation on performance and blood hormones of broiler chickens in normal condition and under physiological stress. Journal of Veterinary Research (in press)

Bagheri Varzaneh, M. 2017. Impact of chromium-methionine supplementation on decreasing deleterious effects of physiological stress in broilers, Animal production, 19:613-625

Azimzadeh V., Assadi-Alamouti, A., Khadem, A., **Bagheri Varzaneh, M**., and Mohammad, J., 2015. MoradiEffects of Supplementation of a Symbiotic Product on Growth Performance and Health of Holstein Calves. **Research on Animal Production** Vol. 6, 105-114.

Assadi Alamouti, A., 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

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.

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.*

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 feed additive supplements

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 andTools, IROST, Tehran, Iran.**2013**
M.Sc. Endochrinology, 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 softeware**", *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 Design*ing**" *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***