

Curriculum Vitae (CV)

Personal Information

First Name: **Mousa**

Last Name: **Zarrin**

Sex: **Male**

Status of Marriage: **Married**

Date of Birth: **1978**

Nationality: **Iranian**

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Scientific Carrier

- 1995* Diploma in Science, High School, Iran
- 1996-1998* Associate of Science (A.Sc) in Animal Production, University of Yasouj, Iran
- 2001- 2003* Bachelor of Science (B.Sc) in Animal Production, University of Sharekord, Iran
(Third Score)
- 2004- 2006* Master of Science (M.Sc) in Animal Nutrition, University of Sharekord, Iran (First
Score)
- 2007-2011* Teacher, Department of Animal Science, Agriculture Faculty, University of Yasouj,
Iran
- 2011-2014* PhD in Biomedical Science, Veterinary Physiology, Vetsuisse Faculty, University of
Bern, Switzerland
- 2014 -now* Professor assistant, Department of Animal Science, Agriculture Faculty, University
of Yasouj, Iran

Publications

Journal papers

1. **Zarrin, M.**, M. Sanginabadi., F. Samadian, and A. Ahmadpour. 2020. The effect of long distance walking (migration) on weight, blood metabolites and some enzymes related to metabolism in fat-tailed ewes. *Animal Science Journal* (Pajohesh & Sazandagi). Accepted. <https://doi.org/10.22092/asj.2020.341217.2022>
2. **Zarrin, M.**, Riveros, J.L., Ahmadpour, A., de Almeida, A.M., Konuspayeva, G., Vargas-Bello-Pérez, E., Faye, B. and Hernández-Castellano, L.E., 2020. Camelids: new players in the international animal production context. *Tropical Animal Health and Production*, 52: 903–913. <https://doi.org/10.1007/s11250-019-02197-2>
3. Ahmadpour, A., **M. Zarrin.**, R. Chrestensen., A. Ahmadpour. And F. Farjood. 2019. Study of the circulatory energy balance indicators and hepatic fat content in dromedary camel during late pregnancy and early lactation. *Small Ruminant Research*. 179:14-20. <https://doi.org/10.1016/j.smallrumres.2019.08.018>
4. **Zarrin, M.**, O. Wellnitz, H. A. van Dorland, and R. M. Bruckmaier. 2019. Hepatic mRNA abundance of genes related to nuclear erythroid 2-related factor 2 changes in response to 48 h manipulated plasma metabolites and insulin in dairy cows. *Livestock Science*. 227:189-194. <https://doi.org/10.1016/j.livsci.2019.05.007>
5. **Zarrin, M.**, A. Ahmadpour., R. M. Bruckmaier. 2019. Interaction effect of insulin infusion and induced mastitis by lipopolysaccharide on glucose metabolism and glucagon concentration in dairy cows. *Animal Production Research*. 8 (2): 93-103. <https://doi:10.22124/ar.2019.11696.1357>
6. Moradalipour, A., M. Muhaghegh-Dolatabady, M. Houshmand, and **M. Zarrin**. 2019. Effect of a Phenolic compounds-rich feedstuff on expression of amylase and β -Actin genes in liver and pancreas tissues of broilers. *Iranian Journal of Animal Science*. 50(1):79-88. <https://doi:10.22059/ijas.2019.261406.653649>
7. Ahmadpour, A., R. Chrestensen., **M. Zarrin.**, F. Farjood, and A. Ahmadpour. 2019. Reporting Temporal Fluctuations of Hepatic C16 and C18 Fatty Acids during Late Gestation and Early Lactation in Dromedary Camel. *Tropical Animal Health and Production*. 51:1651-1660. <https://doi.org/10.1007/s11250-019-01860-y>
8. **Zarrin, M.**, A. Ahmadpour., R. M. Bruckmaier. 2018. Metabolites and hormones manipulated effect on mRNA abundance of antioxidant genes related to Nrf2 in mammary tissue of dairy cows. *Animal Production Research*. 7(3): 1-12.
9. **Zarrin, M.**, F. Samadian., S. Ostadeian., and A. Ahmadpour. 2018. Effect of treating Tumbleweed with urea and molasses on chemical composition and digestibility of its silage. *Animal Production Research*. 7(1), 13-21.
10. **Zarrin, M.**, and R. M. Bruckmaier. 2018. Metabolism reaction of dairy cows to xylazine injection during manipulated plasma metabolites. *Journal of Animal Science Research*. 27(4): 137-148.
11. Saeidi, F., M. Houshmand, S. Parsaei, and **M. Zarrin**. 2017. Potential of oak acorn with and without polyethylene glycol as an alternative to corn in broiler diets. *South African Journal of Animal Science*. 47 (No. 6).

12. Zarrin, M., L. Grossen-Rösti, R. M. Bruckmaier, and J. J. Gross. 2017. Elevation of blood β -hydroxybutyrate concentration affects glucose metabolism in dairy cows before and after Parturition. *Journal of Dairy Science*. 100:2323-2333.
13. Zarrin, M., O. Wellnitz, and R. M. Bruckmaier. 2015. **Short communication:** Conjoint regulation of glucagon secretion via insulin and glucose plasma concentrations in dairy cows. *Domestic Animal Endocrinology*. 51: 74-77.
<http://dx.doi.org/10.1016/j.domaniend.2014.11.004>
14. Zarrin, M., O. Wellnitz, H.A. van Dorland, J. J. Gross, and R. M. Bruckmaier. 2014. Hyperketonemia during LPS induced mastitis affects systemic and local intramammary metabolism in dairy cows. *J. Dairy Sci*. 97:3531–3541.
<http://dx.doi.org/10.3168/jds.2013-7480>
15. Zarrin, M., O. Wellnitz, H.A. van Dorland, and R. M. Bruckmaier. 2014. Induced hyperketonemia affects the mammary immune response during lipopolysaccharide challenge in dairy cows. *J. Dairy Sci*. 97:330-339.
16. *Zarrin, M., L. De Matteis, M. C. M. B. Vernay, O. Wellnitz, H.A. van Dorland, R.M. Bruckmaier. 2013. Long-term elevation of beta-hydroxybutyrate in dairy cows through infusion: effects on feed intake, milk production, and metabolism. *J. Dairy sci*. 96:2960-2972.

Conference abstracts

1. Nouri, M., M. Zarrin., M. Sanginabadi, and A. Ahmadpour. 2019. The effect of pre and post-partum gradual feed restriction of fat-tailed ewes on blood metabolites of their lambs. The 5th National Conference on Management and Husbandry of Animal, Poultry, and aquatics. Kerman. Iran.
2. Sanginabadi, M., M. Zarrin., Nouri, M., and A. Ahmadpour. 2019. The effect of gradual feed restriction pre and post-partum on metabolic parameters of fat-tail ewes. The 5th National Conference on Management and Husbandry of Animal, Poultry, and aquatics. Kerman. Iran.
3. Nouri, M., M. Zarrin., M. Sanginabadi, and A. Ahmadpour. 2019. The effect of feed restriction in late gestation on colostrum yield and its constituent in fat-tailed ewes. 4th International Congress of Developing Agriculture, Natural Resources Environment and Tourism of Iran. Tabriz. Iran.
4. Sanginabadi, M., M. Zarrin., Nouri, M., and A. Ahmadpour. 2019. The effects of gradual feed restriction on blood metabolites in non-pregnant fat-tailed ewes. 4th International Congress of Developing Agriculture, Natural Resources Environment and Tourism of Iran. Tabriz. Iran.
5. Sanginabadi, M., M. Zarrin., Nouri, M., and A. Ahmadpour. 2019. The effect of gradual feed restriction pre and post-partum on metabolic parameters of fat-tail ewes.

6. Sanginabadi, M., A. Ahmadpour., M. Nouri., **M. Zarrin.**, and S. K. Doostmohammay. 2018. Changes of blood indices related to fat metabolism pre and post-partum in camel. The 1st National Conference on Ruminant & Poultry Metabolic Disorders. Zanjan. Iran.
7. **Zarrin. M.**, R. Christensen, S. K. Doostmohammadi, A. A. Ahmadpour, and A. Ahmadpour. 2019. Hepatic reducing factors expression changes in dromedary camel during late gestation and early lactation. ASAS-CSAS Annual Meeting and Trade Show. Austin. TX. USA.
8. **Zarrin. M.**, R. Christensen, S. K. Doostmohammadi, A. A. Ahmadpour, and A. Ahmadpour. 2019. Alteration of mRNA abundance of the oxidizing factors-related genes during the transition period in dromedary camel. ASAS-CSAS Annual Meeting and Trade Show. Austin. TX. USA.
9. **Zarrin. M.**, R. Christensen, S. K. Doostmohammadi, A. A. Ahmadpour, and A. Ahmadpour. 2019. The inflammatory response in cellular level changes during the transition period in dromedary camel. ASAS-CSAS Annual Meeting and Trade Show. Austin. TX. USA.
10. **Zarrin. M.**, M. Sanginabadi., M. Nouri, A. Ahmadpour, and R. Bruckmaier. 2019. Feed restriction in late gestation and early lactation affects body weight and colostrum and milk production in Iranian fat-tailed ewes. 17th International Conference on Production Diseases in Farm Animals. Bern. Switzerland.
11. Sanginabadi, M., A. Ahmadpour., M. Nouri., **M. Zarrin.**, and S. K. Doostmohammay. 2018. Changes of blood indices related to fat metabolism pre and post-partum in camel. The 1st National Conference on Ruminant & Poultry Metabolic Disorders. Zanjan. Iran.
12. **Zarrin. M.**, M. Sanginabadi., M. Nouri, and A. Ahmadpour. 2018. Effect of long distance walking (nomad) on body weight changes of bakhtiary ewes. 8th Iranian animal science congress. 2018. Sanandaj, I. R. Iran.
13. **Zarrin, M.**, A. Ahmadpour, and R. M. Bruckmaier. 2018. Effect of simultaneous manipulated metabolites and hormone and intra-mammary challenge on mRNA abundance of anti-oxidant genes related to Nrf2 in dairy cow's mammary tissue. 8th Iranian animal science congress. 2018. Sanandaj, I. R. Iran.
14. Ahmadpour, A., Z. Hasanpour., **M. Zarrin.**, S. K. Doostmohammady, and S. Osouli. 2018. Effect of Feeding Different Levels of Safflower Seed on Ruminal Fermentation Characteristics of Dromedary Camels. 8th Iranian animal science congress. 2018. Sanandaj, I. R. Iran.
15. Ahmadpour, A., **M. Zarrin**, R. Christensen, S. Osouli. 2018. Postparturient immunoglobulin variations in mammary quarters and its repeatability in sequential lactations of Dromedary camel. ASAS-CSAS" meeting. Vancouver, Canada.
16. Ahmadpour, A., R. Christensen, **M. Zarrin**, S. Osouli. 2018. Comparative study on effects of two different colostrum feeding methods on immunoglobulin G concentration in serum of newborn camel calves. ASAS-CSAS" meeting. 2018. Vancouver, Canada.
17. **Zarrin, M.**, A. Ahmadpour, and R. M. Bruckmaier. 2017. The effect of induce mastitis and metabolites change on gene abundance related to mammary metabolism in dairy cows. 4th Management and Husbandry of Animal and Poultry. Kerman. Iran.

18. Zarrin, M., L. Grossen-Rösti, R. M. Bruckmaier, and J. J. Gross. Beta-hydroxybutyrate infusion affects glucose metabolism before and after parturition in dairy cows. ADSA-ASAS Joint Annual Meeting, 2016. Salt Lake City, UT, USA.
19. Zarrin, M., S. Ostadeian, F. Samadeian, J. Habibizad, and A. Ahmadpour. Effects of the enrichment of rice straw with urea and molasses on its chemical composition and in-vitro digestibility. 7th Iranian animal science congress. 2016. Tehran, I. R. Iran.
20. Zarrin, M., A. Ahmadpour, and R. Bruckmaier. The effect of Xylazine injection on metabolism during plasma metabolites manipulate. 7th Iranian animal science congress. 2016. Tehran, I. R. Iran.
21. Samadeian, F., S. Ostadeian, A. Ahmadpour, and M. Zarrin. The effects of with urea and molasses on chemical composition and digestibility of Gundelia tournefortii silage. 7th Iranian animal science congress. 2016. Tehran, I. R. Iran.
22. Samadeian, F., S. Ostadeian, A. Ahmadpour, and M. Zarrin. Determination of nutritional value of Gundelia tournefortii and evaluation of its silages treated with varying proportions of urea and molasses. 7th Iranian animal science congress. 2016. Tehran, I. R. Iran.
23. Zarrin, M., A. Ahmadpour, and S. Osouli. Investigate the fatty acids profile and physico-chemical characteristics of camels' milk of south of Kerman. The national conference of organic animal, poultry, and aquatics products. 2015. Rasht, Iran.
24. Zarrin, M., A. Ahmadpour, and S. Osouli. Study of amino acids and mineral content of camels' milk of south of Kerman. The national conference of organic animal, poultry, and aquatics products. 2015. Rasht, Iran.
25. Zarrin, M., O. Wellnitz, and R.M. Bruckmaier. Effects of manipulated insulin and glucose plasma concentrations on glucagon secretion during intramammary LPS challenge in dairy cows. ADSA-ASAS Joint Annual Meeting, 2015. Orlando, Florida, USA.
26. Ahmadpour, A., R M. Bruckmaier, and M. Zarrin. Comparative study between two traditional camel rearing systems effects on milk fat and its fatty acids profile. ADSA-ASAS Joint Annual Meeting, 2015. Orlando, Florida, USA.
27. Ahmadpour, A., S. Osouli, M. Zarrin, J. Habibizad, B. Najafnejad-Orojkandi, R. Sedighi-Vasagh. Comparison of physicochemical component of camel, cow, sheep and goat milk. 6th Iranian animal science congress. 2014. Tabriz, I. R. Iran.
28. Ahmadpour, A., S. Osouli, M. Zarrin, R. Sedighi-Vesagh. Comparison of the Quality and Chemical Composition of Camel Meat and Beef. 6th Iranian animal science congress. 2014. Tabriz, I. R. Iran.
29. Zarrin, M., R. M. Bruckmaier, and O. Wellnitz. Effect of metabolites and endocrine changing, and immune system activation on milk cell's mRNA abundance of immune responses in dairy cows. ADSA-ASAS-CSAS Joint Annual Meeting, 2014. Kansas City, Missouri, USA.
30. Zarrin, M., O. Wellnitz, and R.M. Bruckmaier. The mRNA abundances of nuclear related factor-E2 were affected by change the metabolites and endocrine in dairy cows. ADSA-ASAS-CSAS Joint Annual Meeting, 2014. Kansas City, Missouri, USA.

31. **Zarrin, M.**, O. Wellnitz, H.A. van Dorland, R.M. Bruckmaier. Blood Glucose Concentration Is a Major Regulator of Glucagon Secretion in Dairy Cows. GCB symposium. 2014. Bern, Switzerland.
32. **Zarrin, M.**, O. Wellnitz, H.A. van Dorland, R.M. Bruckmaier. Long term hyperketonemia impairs metabolism and affects immune response in dairy cows were stimulated with LPS in dairy cows. 8th ECBHM Annual General Meeting. 2013. Bern, Switzerland.
33. * **Zarrin, M.**, O. Wellnitz, H.A. van Dorland, R.M. Bruckmaier. Conjoint regulation of glucagon secretion via insulin and glucose plasma concentrations in dairy cows. ADSA – ASAS Joint Annual Meeting. 2013. Indianapolis, USA.
34. **Zarrin, M.**, H. A. van Dorland, O. Wellnitz, R.M. Bruckmaier. Effects of intravenous beta-hydroxybutyrate on the mRNA abundance of genes related to metabolism and immune response in hepatic and mammary tissue in dairy cows. ADSA –ASAS Joint Annual Meeting. 2013. Indianapolis, USA.
35. **Zarrin, M.**, H. A. van Dorland, O. Wellnitz, R. M. Bruckmaier. Effects of an intramammary lipopolysaccharide (LPS) challenge on metabolism and mammary immune response in hyperketotic dairy cows. ADSA – ASAS Joint Annual Meeting. 2013. Indianapolis, USA.
36. **Zarrin, M.**, H. A. van Dorland, R.M. Bruckmaier, O. Wellnitz. Effects of long term hyperketonemia combined with LPS challenge on immune response in dairy cows.15th International Conference on Production Diseases in farm animals (ICPD), Book of abstracts (Göran Dallin, ed.), 24-28 June 2013, Uppsala, Sweden, pp 156.
37. Ahmadpour, A., **M. Zarrin**, S. Parsaei, A. Salehimanesh, and S. Amiri. The study of ruminal fermentation characteristics in dairy cows' fed diets supplemented with sodium monensin. Animal science congress – north of Iran. 2013. Rasht, Iran.
38. **Zarrin, M.**, J. J. Gross, O. Wellnitz, H.A. van Dorland, R.M. Bruckmaier. New findings on the effect of β -hydroxybutyrate on metabolism and immune response in dairy cows. Are high performance "Bio-compatible"? Challenges for the animal Nutrition. ETH, Zurich. May 2013.
39. **Zarrin, M.**, O. Wellnitz, H.A. van Dorland, R.M. Bruckmaier. Hyperketonemia affects metabolism and immune response in dairy cows. Swiss Association for Animal Production (SVT). 2013. Posieux, Switzerland.
40. **Zarrin, M.**, H. A. van Dorland, O. Wellnitz, R.M. Bruckmaier. Effects of induced hyperketonemia on metabolism and mammary immune response in dairy cows. GCB symposium. 2013. Bern, Switzerland.
41. **Zarrin, M.**, H. A. van Dorland, O. Wellnitz, R. M. Bruckmaier. Effects of long-term beta-hydroxybutyrate (BHB) infusion on plasma glucose concentration in dairy cows. 5th Iranian animal science congress. 2012. Isfahan, I. R. Iran.
42. **Zarrin, M.**, A. Salehimanesh, S. Parsaei, and A. Ahmadpour. The study of blood metabolites changes in dairy cows' fed diets supplemented with sodium monensin. 5th Iranian animal science congress. 2012. Isfahan, I. R. Iran.
43. **Zarrin, M.**, L. De Matteis, M. C. M. B. Vernay, O. Wellnitz, H.A. van Dorland, R.M. Bruckmaier. Effects of long term Hyperketonemia on metabolism and performance in lactating dairy cows. ADSA – AMPA – ASAS – CSAS – WSASAS Joint Annual Meeting. 2012. Phoenix, Arizona, USA.

*“One of eight Late-Breaking abstracts news.”

44. H. A. van Dorland, **M. Zarrin**, M.C.M.B. Vernay, O. Wellnitz, and R.M. Bruckmaier. Metabolic responses in lactating dairy cows to an infusion with DL-beta-hydroxybutyrate for 48 hours. Society of Nutrition Physiology. 2012. Gottingen, Germany.
45. **Zarrin, M.**, L. De Matteis, M. C. M. B. Vernay, O. Wellnitz, H.A. van Dorland, R.M. Bruckmaier. Induced hyperketonemia in dairy cows by long-term (48 h) BHB infusion and effects on milk yield and feed intake. 7th International Congress of Farm Animal Endocrinology. 2011. Bern, Switzerland.
46. **M. Zarrin**, A. Moharrery, and A. Ahmadpour. Evaluation of Apparent Digestibility of Sheep & Goat Feed by Acid Insoluble Ash (AIA) Marker. 4th Iranian animal science congress. 2010. Tehran, I. R. Iran.
47. **Zarrin, M.**, A. Moharrery, and A. Ahmadpour. Determination of Different Feed's Retention Time in Different domestic species by Polyethylene glycol. 4th Iranian animal science congress. 2010. Tehran, I. R. Iran.
48. Ahmadpour, A., **M. Zarrin**, A. Moharrery, and J. Habibizad. Determination of Different Feed's Retention Time in Different domestic species by Polyethylene glycol Marker. 4th Iranian animal science congress. 2010. Tehran, I. R. Iran.
49. KaramiShabankareh, H., J. Habibizad, **M. Zarrin**, M. Muhaghegh-Dolatabady, and A. Ahmadpour. The influence of age on anatomy, morphology and depth of cervix in Sanjabi ewes. 4th Iranian animal science congress. 2010. Tehran, I. R. Iran.
50. Habibizad, J., H. KaramiShabankareh, **M. Zarrin**, M. Muhaghegh-Dolatabady, and M. Nikbakht. Investigation of single and double ovulation in left and right ovaries of domestic ewes and goats in Kohgiluyeh and Boyerahmad province. 4th Iranian animal science congress. 2010. Tehran, I. R. Iran.