

CURRICULUM VITAE

Hassan Sadri, Ph.D.

Professor of Animal Nutrition



Personal information

Address: Department of Clinical Science, Faculty of Veterinary Medicine, University of Tabriz, 516616471 Tabriz, Iran
Date of Birth: 23 June 1978
Place of Birth: Tabriz (Iran)
Citizenship: Iranian
Marital Status: Married, with one child
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Education

Ph.D. 2009, Animal Science (Animal Nutrition), Isfahan University of Technology, Iran.
"Responses of Transition Cows to Chromium and Grain Source of Diet, and Studying Gene Expression of Insulin Signaling Related Factors in Dry- and Early Lactating Dairy Cows"

M.Sc. 2004, Animal Science (Animal Nutrition), Isfahan University of Technology, Iran. "Comparison of Differently Processed Barley for Dairy Cows"

B.Sc. 2001, Animal Science, Tabriz University, Iran.

Professional Affiliations

- Professor of Animal Nutrition, Department of Clinical Science, Faculty of Veterinary Medicine, University of Tabriz, Iran. April 2024 – till now.
- Associate Professor of Animal Nutrition, Department of Clinical Science, Faculty of Veterinary Medicine, University of Tabriz, Iran. July 2018 – April 2024.
- Research Associate (Wissenschaftlicher Mitarbeiter) at the Institute of Animal Science, Physiology Unit, University of Bonn, Germany. April 2013 – May 2017.
- Assistant Professor of Animal Nutrition, Department of Clinical Science, Faculty of Veterinary Medicine, University of Tabriz, Iran. September 2009 – April 2013 & June 2017 – June 2018.

Awards and Honors

- Top researcher of the Faculty of Veterinary Medicine, University of Tabriz (Iran). December 2021.
- Georg Forster Research Fellowship for Experienced Researchers, awarded by Alexander von Humboldt-Stiftung/Foundation, Germany. 2020.
- Top researcher in the international scientific collaborations of Tabriz University (Iran). December 2020.
- Top researcher of the Faculty of Veterinary Medicine, University of Tabriz (Iran). December 2017.
- The Best Presentation Award at the 67th Annual Meeting of the European Association for Animal Production in Belfast, UK. 2016 (August 29th – September 2nd).
- ERS Silver Sponsorship to attend the European Respiratory Society International Congress, 2014 Munich, Germany. 2014 (September 6th – 10th).
- The Best Teacher Award (earning the highest praise in student surveys that year) at the Faculty of Veterinary Medicine, University of Tabriz (Iran). April 2011.
- Conference Travel Award to attend the annual meeting of ADSA-CSAS-ASAS in Montreal, Canada, awarded by Isfahan University of Technology (Iran). 2009.
- Visiting Ph.D. fellowship, awarded by the Iranian Ministry of Science, Research and Technology for Veterinary Physiology, Vetsuisse Faculty, University of Bern, Switzerland. 2008.

Visiting Fellow

- Visiting Assoc. Prof., Institute of Animal Science, Physiology Unit, University of Bonn, Germany. June 2023 – September 2023.
- Visiting Assoc. Prof. (Research Fellow of the Alexander von Humboldt Foundation), Institute of Animal Science, Physiology Unit, University of Bonn, Germany. March 2020 – October 2022.
- Visiting Assoc. Prof., Institute of Animal Science, Physiology Unit, University of Bonn, Germany. 2019 (June – September).
- Visiting Assoc. Prof., Institute of Animal Science, Physiology Unit, University of Bonn, Germany. 2018 (June – September).
- Visiting Asst. Prof., Veterinary Physiology, Vetsuisse Faculty, University of Bern, Switzerland. 2011 (July – August).
- Visiting Ph.D. student, Veterinary Physiology, Vetsuisse Faculty, University of Bern, Switzerland. 2008 (April – December).

Teaching Experiences

• University of Tabriz, Iran:

- "Principles of Animal Nutrition", Doctor of Veterinary Medicine
- "Advanced Animal Nutrition", Doctor of Veterinary Medicine
- "Feed Additives", Doctor of Veterinary Medicine
- "Animal Health and Management", Doctor of Veterinary Medicine
- "Principles of Animal and Poultry Nutrition", Bachelor of Veterinary Laboratory Science
- "Principles of Animal and Poultry Feed Analysis", Bachelor of Veterinary Laboratory Science

• University of Bonn, Germany (April 2013 – May 2017):

- "Biochemie & Physiologie der Nutztierleistungen", M.Sc. Tierwissenschaften
- "Leistungs-und Ernährungsphysiologie", B.Sc. Agrarwissenschaften

Student Supervision

- PhD

- Abazar Karimi, co-supervisor, Department of Animal Science, Faculty of Agriculture, Urmia University, Iran.
Titled "*Interaction effects of fiber with fat level and source in starter diet of dairy calves on performance, structural growth, digestibility, and blood metabolites*". Graduated in October 2021.
- Laura Webb, co-supervisor with Prof. Helga Sauerwein, University of Bonn, Germany.
Titled "*Regulation of branched-chain amino acid metabolism in skeletal muscle and adipose tissue of dairy cows during the periparturient period as influenced by body condition score*". Graduated in February 2020.
- Yi Yang, co-supervisor with Prof. Helga Sauerwein, University of Bonn, Germany.
Title: "*Metabolic profiling in serum and muscle of dairy cows during the periparturient period and subsequent lactation*". Graduated in December 2018.

- Master of Science

- Julia Weise, co-supervisor with Prof. Helga Sauerwein, University of Bonn, Germany.
Title: "*Untersuchungen zur mRNA-Expression der Fettsäurebindenden Proteine FABP3 und FABP4 im Skelettmuskel und verschiedenen fettdepots von Milchkühen im Laktationsverlauf*". Graduated in January 2017.
- Benjamin G. Assefa, co-supervisor with Prof. Helga Sauerwein, University of Bonn, Germany.
Title: "*Plasma concentration and tissue mRNA expression of Hp in neonatal calves*". Graduated in January 2016.
- Mohammed Faizan Haider, co-supervisor with Prof. Helga Sauerwein, University of Bonn, Germany.
Title: "*Assessing the informative value of corticosterone in different matrices from turkeys reared in different environments*". Graduated in December 2015.
- Mehdi Mirani, Faculty of Veterinary Medicine, University of Tabriz, Iran.
Title: "*The effects of leucine, zinc, and chromium supplementations on the oxidative stress of respiratory system in rats with type 2 diabetes*". Graduated in September 2014.
- Morvarid Amani, Faculty of Veterinary Medicine, University of Tabriz, Iran.
Title: "*The effects of nutritional supplements of leucine, zinc, and chromium on the histopathology of the respiratory system in rats with type 2 diabetes*". Graduated in September 2013.
- Anis Mazadeh, Faculty of Veterinary Medicine, University of Tabriz, Iran.
Title: "*The effects of leucine, zinc, and chromium supplementations on the enzymatic and cellular content of the respiratory system in rats with type 2 diabetes*". Graduated in June 2014.
- Elahe Yazdankhah, Faculty of Agriculture, University of Tabriz, Iran.
Title: "*Using restaurant waste in finishing lambs ration and its effect on gene expression of some liver enzymes and blood metabolites*". Graduated in June 2013.
- Ali Ghorbani, Islamic Azad University, Saveh Branch, Iran.
Title: "*Adding of chromium to milk and colostrum of Holstein calves and its effect on health, growth performance, and metabolic status*". Graduated in September 2011.

Publications

By April 2024, 59 original articles and 3 review papers were published; for details see the list of publications at: <https://scholar.google.com/citations?user=McpPlyAAAAAJ&hl=en>

<https://www.scopus.com/authid/detail.uri?authorId=56150642000>

<https://www.researchgate.net/profile/Hassan-Sadri>

Commitments in University Self-administration (Tabriz University)

- Head of the Faculty Library. Since November 2023.
- In charge of the Division of Animal Nutrition at the Department of Clinical Science. Since 2009.
- Member of the Faculty's research farm construction and development committee. 2013-2017.
- Representative of the Faculty in the University Entrepreneurship Committee. 2017 – 2019.
- Language Editor of the Journal of Zoonotic Disease (published by the University of Tabriz). Since 2020.
- Secretary of the 8th Iranian Veterinary Students Congress. 2012 (September 4th – 6th).

Reviewer for Scientific Journals

- Journal of Dairy Science
- Journal of Animal Physiology and Animal Nutrition
- Journal of Animal Science
- Scientific Reports
- Journal of Animal Feed Science and Technology
- Journal of Metabolomics
- Journal of Medicinal Plant
- Acta Veterinaria Scandinavica
- Veterinary Research Communications
- Journal of Steroid Biochemistry and Molecular Biology
- PLOS ONE
- Livestock Science
- Journal of Animal Science and Biotechnology
- Animal Nutrition

Language Skills

- **Mother Tongues:** Azari and Persian (Farsi)
- **Foreign Languages:**
 - English: fluent, written and spoken command
 - German: intermediate knowledge

List of Publications

- **Peer-reviewed Publications** (*Corresponding author)
 1. Dicks, L., K. Schuh-von Graevenitz, C. Prehn, **H. Sadri**, E. Murani, M. H. Ghaffari, and S. Häussler. 2024. Bile acid profiles and mRNA abundance of bile acid-related genes in adipose tissue of dairy cows with high versus normal body condition. *J. Dairy Sci.* Published online March 13, 2024. <https://doi.org/10.3168/jds.2024-24346>
 2. Ghaffari M. H., **H. Sadri**, H. Sauerwein, S. Schuchardt, J. Martín-Tereso, and J. B. Daniel. 2024. Longitudinal characterization of the metabolome of dairy cows transitioning from one lactation to the next one: Investigations in the liver. *J. Dairy Sci.* Published online January 19, 2024. <https://doi.org/10.3168/jds.2023-24432>
 3. Ghaffari M. H., J. B. Daniel, **H. Sadri**, S. Schuchardt, J. Martín-Tereso, and H. Sauerwein. 2024. Longitudinal characterization of the metabolome of dairy cows transitioning from one lactation to the next one: Investigations in blood serum. *J. Dairy Sci.* 107:1263–1285. <https://doi.org/10.3168/jds.2023-23841>

4. Ghaffari, M. H., **H. Sadri**, N. Trakooljul, C. Koch, and H. Sauerwein. 2024. Liver transcriptome profiles of dairy cows with different serum metabotypes. *J. Dairy Sci.* 107:1751–1765. <https://doi.org/10.3168/jds.2023-23572>
5. Häussler, S., M. H. Ghaffari, K. Seibt, **H. Sadri**, M. Alaedin, K. Huber, J. Frahm, S. Dänicke, and H. Sauerwein. 2023. Blood and liver telomere length, mitochondrial DNA copy number, and hepatic gene expression of mitochondrial dynamics in mid-lactation cows supplemented with L-carnitine under systemic inflammation. *J. Dairy Sci.* 106:9822-9842. <https://doi.org/10.3168/jds.2023-23556>
6. Mousavi-Haghshenas, M. S., G. R. Ghorbani, F. Hashemzadeh, H. Rafiee, E. Ghasemi, **H. Sadri**, M. H. Ghaffari. 2023. Supplementation of an organic mineral source modulated metabolic profile, insulin sensitivity, and oxidative stress in dairy calves with different birth body weights. *Anim. Feed Sci. Technol.* 304:115749. <https://doi.org/10.1016/j.anifeedsci.2023.115749>
7. Asadpour, R., H. Sadri, R. Jafri-Joozani, and M. Tolouei. 2023. The effect of co-supplementation of fish oil and vitamin E on reproductive performance and metabolic profile during the transitional period in dairy cows. *VETERINARSKI ARHIV.* 93:17-30. <https://doi.org/10.24099/vet.arhiv.1461>
8. **Sadri, H.,*** Ghaffari, M. H., and H. Sauerwein. 2023. INVITED REVIEW: Muscle protein breakdown and its assessment in periparturient dairy cows. *J. Dairy Sci.* 106:822-842. <https://doi.org/10.3168/jds.2022-22068>
9. Ghaffari, M. H., **H. Sadri**, and H. Sauerwein. 2023. INVITED REVIEW: Assessment of body condition score and body fat reserves in relation to insulin sensitivity and metabolic phenotyping in dairy cows. *J. Dairy Sci.* 106:807-821. <https://doi.org/10.3168/jds.2022-22549>
10. **Sadri, H.**, M. H. Ghaffari, N. Trakooljul, F. Ceciliani, and H. Sauerwein. 2022. MicroRNA profiling of subcutaneous adipose tissue in periparturient dairy cows at high or moderate body condition. *Scientific Reports.* 12:14748. <https://doi.org/10.1038/s41598-022-18956-5>
11. Veshkini A., H. M. Hammon, B. Lazzari, L. Vogel, M. Gnott, A. Tröscher, V. Vendramin, **H. Sadri**, H. Sauerwein, and F. Ceciliani. 2022. Investigating circulating miRNA in transition dairy cows: What miRNAomics tells about metabolic adaptation. *Front. Genet.* 13:946211. <https://doi.org/10.3389/fgene.2022.946211>
12. Schuh, K., S. Häussler, **H. Sadri**, C. Prehn, J. Lintelmann, J. Adamski, C. Koch, D. Frieten, M. H. Ghaffari, G. Dusel, and H. Sauerwein. 2022. Blood and adipose tissue steroid metabolomics and mRNA expression of steroidogenic enzymes in periparturient dairy cows differing in body condition. *Scientific Reports.* 12:2297. <https://doi.org/10.1038/s41598-022-06014-z>
13. Häussler, S., **H. Sadri**, M. H. Ghaffari, and H. Sauerwein. 2022. Symposium review: Adipose tissue endocrinology in the periparturient period of dairy cows. *J. Dairy Sci.* 105:3648-3669. <https://doi.org/10.3168/jds.2021-21220>
14. **Sadri, H.**, M. H. Ghaffari, J. Steinhoff-Wagner, S. Görs, H. M. Hammon, and H. Sauerwein. 2021. Expression of specific signaling components related to muscle protein turnover and of branched-chain amino acid catabolic enzymes in muscle and adipose tissue of preterm and term calves. *J. Dairy Sci.* 104:11291–11305. <https://doi.org/10.3168/jds.2021-20527>
15. **Sadri, H.**, M. H. Ghaffari, K. Schuh, C. Koch, and H. Sauerwein. 2021. Muscle metabolome and adipose tissue mRNA expression of lipid metabolism-related genes in over-conditioned dairy cows differing in serum-metabotype. *Scientific Reports.* 11:11106. <https://doi.org/10.1038/s41598-021-90577-w>
16. Ghaffari, M. H., M. Alaedin, **H. Sadri**, I. Hofs, C. Koch, and H. Sauerwein. 2021. Longitudinal changes in fatty acid metabolism and in the mitochondrial protein import system in

- overconditioned and normal conditioned cows: A transcriptional study using microfluidic quantitative PCR. *J. Dairy Sci.* 104:10338–10354. <https://doi.org/10.3168/jds.2021-20237>
17. Ghaffari, M. H., **H. Sadri**, J. Steinhoff-Wagner, H. M. Hammon, and H. Sauerwein. 2021. Effects of colostrum feeding on the mRNA abundance of genes related to toll-like receptors, key antimicrobial defense molecules, and tight junctions in the small intestine of neonatal dairy calves. *J. Dairy Sci.* 104:10363–10373. <https://doi.org/10.3168/jds.2021-20386>
 18. Alaedin, M., M. H. Ghaffari, **H. Sadri**, J. Meyer, S. Dänicke, J. Frahm, K. Huber, S. Grindler, S. Kersten, J. Rehage, E. Muráni, and H. Sauerwein. 2021. Effects of dietary l-carnitine supplementation on the response to an inflammatory challenge in mid-lactating dairy cows: Hepatic mRNA abundance of genes involved in fatty acid metabolism. *J. Dairy Sci.* 104: 11193–11209. <https://doi.org/10.3168/jds.2021-20226>
 19. Karimi, A., Y. A. Alijoo, M. Kazemi-Bonchenari, M. Mirzaei, and **H. Sadri**. 2021. Effects of supplemental fat sources and forage feeding levels on growth performance, nutrient digestibility, ruminal fermentation, and nitrogen utilization in dairy calves. *Animal*. 12:100179. <https://doi.org/10.1016/j.animal.2021.100179>
 20. Karimi, A., Y. A. Alijoo, M. Kazemi-Bonchenari, M. Mirzaei, and **H. Sadri**. 2021. Soybean oil supplementation and alfalfa hay inclusion in starter feed of Holstein dairy calves: growth performance, digestibility, ruminal fermentation and urinary purine derivatives. *Ital. J. Anim. Sci.* 20:1817-1828. <https://doi.org/10.1080/1828051X.2021.1955626>
 21. Yang, Y., **H. Sadri**,* C. Prehn, J. Adamski, J. Rehage, S. Dänicke, M. H. Ghaffari, and H. Sauerwein. 2021. Targeted assessment of the metabolome in skeletal muscle and in serum of dairy cows supplemented with conjugated linoleic acid during early lactation. *J. Dairy Sci.* 104:5095–5109. <https://doi.org/10.3168/jds.2020-19185>
 22. Sauerwein H., T. Blees, V. Zamarian, C. Catozzi, U. Müller, **H. Sadri**, S. Dänicke, J. Frahm, and F. Ceciliani. 2020. Acute phase proteins and markers of oxidative status in water buffalos during the transition from late pregnancy to early lactation. *Veterinary Immunology and Immunopathology*. 228:110113. <https://doi.org/10.1016/j.vetimm.2020.110113>
 23. Ghaffari, M. H., **H. Sadri**,* H. M. Hammon, J. Steinhoff-Wagner, N. Henschel, and H. Sauerwein. 2020. Colostrum versus formula: Effects on mRNA expression of genes related to branched-chain amino acid metabolism in neonatal dairy calves. *J. Dairy Sci.* 103:9656–9666. <https://doi.org/10.3168/jds.2020-18429>
 24. Webb, L. A., M. H. Ghaffari, **H. Sadri**, K. Schuh, V. Zamarian, C. Koch, N. Trakooljul, K. Wimmers, C. Lecchi, F. Ceciliani, and H. Sauerwein. 2020. Profiling of circulating microRNA (miRNA) and pathway analysis in normal- versus over-conditioned dairy cows during the dry period and early lactation. *J. Dairy Sci.* 103:9534–9547. <https://doi.org/10.3168/jds.2020-18283>
 25. Ghaffari, M. H., A. Jahanbekam, C. Post, **H. Sadri**, K. Schuh, C. Koch, and H. Sauerwein. 2020. Discovery of different metabotypes in overconditioned dairy cows by means of machine learning. *J. Dairy Sci.* 103:9604–9619. <https://doi.org/10.3168/jds.2020-18661>
 26. **Sadri, H.**, B. Getachew, M. H. Ghaffari, H. M. Hammon, J. Steinhoff-Wagner, and H. Sauerwein. 2020. Plasma concentration and tissue mRNA expression of haptoglobin in neonatal calves. *J. Dairy Sci.* 103:6684–6691. <https://doi.org/10.3168/jds.2020-18218>
 27. Ghaffari, M. H., K. Schuh, J. Kuleš, N. Guillemin, A. Horvatić, V. Mrljak, P. D. Eckersall, G. Dusel, C. Koch, **H. Sadri**, and H. Sauerwein. 2020. Plasma proteomic profiling and pathway analysis of normal and over-conditioned dairy cows during the transition from late pregnancy to early lactation. *J. Dairy Sci.* 103:4806–4821. <https://doi.org/10.3168/jds.2019-17897>

28. Ghaffari, M. H., **H. Sadri**, K. Schuh, G. Dusel, C. Prehn, J. Adamski, C. Koch, and H. Sauerwein. 2020. Alterations of the acylcarnitine profiles in blood serum and in muscle from periparturient cows at normal or elevated body condition. *J. Dairy Sci.* 103:4777–4794. <https://doi.org/10.3168/jds.2019-17713>
29. **Sadri, H.**, M. H. Ghaffari, K. Schuh, G. Dusel, C. Koch, C. Prehn, J. Adamski, and H. Sauerwein. 2020. Metabolome profiling in skeletal muscle to characterize metabolic alterations of over-conditioned cows during the periparturient period. *J. Dairy Sci.* 103:3730–3744. <https://doi.org/10.3168/jds.2019-17566>
30. Webb, L. A., **H. Sadri,*** K. Schuh, S. Egert, P. Stehle, I. Meyer, C. Koch, G. Dusel, and H. Sauerwein. 2020. Branched-chain amino acids: Abundance of their transporters and metabolizing enzymes in adipose tissue, skeletal muscle and liver of dairy cows at high or normal body condition. *J. Dairy Sci.* 103:2847–2863. <https://doi.org/10.3168/jds.2019-17147>
31. Yang, Y., **H. Sadri,*** C. Prehn, J. Adamski, J. Rehage, S. Dänicke, D. von Soosten, C. C. Metges, M. H. Ghaffari, and H. Sauerwein. 2020. Proteasome activity and expression of mammalian target of rapamycin signaling factors in skeletal muscle of dairy cows supplemented with conjugated linoleic acids during early lactation. *J. Dairy Sci.* 103:2829–2846. <https://doi.org/10.3168/jds.2019-17244>
32. Ghaffari, M. H., A. Jahanbekam, **H. Sadri**, K. Schuh, G. Dusel, C. Prehn, J. Adamski, C. Koch, and H. Sauerwein. 2019. Metabolomics meets machine learning: Longitudinal metabolite profiling in serum of normal versus overconditioned cows and pathway analysis. *J. Dairy Sci.* 102:11561–11585. <https://doi.org/10.3168/jds.2019-17114>
33. Ghaffari, M. H., K. Schuh, G. Dusel, D. Fieten, C. Koch, C. Prehn, J. Adamski, H. Sauerwein, and **H. Sadri***. 2019. Mammalian target of rapamycin signaling and ubiquitin-proteasome-related gene expression in skeletal muscle of dairy cows with high or normal body condition score around calving. *J. Dairy Sci.* 102:11544–11560. <https://doi.org/10.3168/jds.2019-17130>
34. Ghaffari, M. H., K. Schuh, G. Dusel, D. Fieten, C. Koch, C. Prehn, J. Adamski, H. Sauerwein, and **H. Sadri***. 2019. Biogenic amines: concentrations in serum and skeletal muscle from late pregnancy until early lactation in dairy cows with high versus normal body condition score. *J. Dairy Sci.* 102:6571–6586. <https://doi.org/10.3168/jds.2018-16034>
35. Webb, L. A., **H. Sadri,*** D. von Soosten, S. Dänicke, S. Egert, P. Stehle, and H. Sauerwein. 2019. Changes in tissue abundance and activity of enzymes related to branched-chain amino acid catabolism in dairy cows during early lactation. *J. Dairy Sci.* 102:3556–3568. <https://doi.org/10.3168/jds.2018-14463>
36. Schuh, K., **H. Sadri,*** S. Häussler, C. Urh, C. Koch, J. Frahm, S. Dänicke, G. Dusel, and H. Sauerwein. 2019. Comparison of performance and metabolism from late pregnancy to early lactation in dairy cows with elevated versus normal body condition at dry-off. *Animal.* 7:1-11. <https://doi.org/10.1017/S1751731118003385>
37. Yang, Y., **H. Sadri,*** C. Prehn, J. Adamski, J. Rehage, S. Dänicke, B. Saremi, and H. Sauerwein. 2019. Acylcarnitine profiles in serum and muscle of dairy cows receiving conjugated linoleic acids or a control fat supplement during early lactation. *J. Dairy Sci.* 102:754–767. <https://doi.org/10.3168/jds.2018-14685>
38. **Sadri, H.**, B. Saremi, S. Dänicke, J. Rehage, M. Mielenz, A. Hosseini, and H. Sauerwein. 2018. Lactation-related changes in tissue expression of PEDF in dairy cows. *Domest. Anim. Endocrinol.* 64:93–101. <https://doi.org/10.1016/j.domaniend.2018.04.004>
39. **Sadri, H.**, J. Steinhoff-Wagner, H. M. Hammon, R. M. Bruckmaier, S. Görs, and H. Sauerwein. 2017. Mammalian target of rapamycin signaling and ubiquitin proteasome-related gene

- expression in three different skeletal muscles of colostrum versus formula fed calves. *J. Dairy Sci.* 100:9428–9441. <https://doi.org/10.3168/jds.2017-12857>
40. **Sadri H.**, D. von Soosten, U. Meyer, J. Kluess, S. Dänicke, B. Saremi, and H. Sauerwein. 2017. Plasma amino acids and metabolic profiling of dairy cows in response to a bolus duodenal infusion of leucine. *PLOS ONE* 12(4): e0176647. <https://doi.org/10.1371/journal.pone.0176647>
 41. **Sadri, H.*** N. Nowroozi Larki, and S. Kolahian. 2017. Hypoglycemic and hypolipidemic effects of leucine, zinc, and chromium, alone and in combination, in rats with type 2 diabetes. *Biol. Trace Elem. Res.* 180:246–254. <https://doi.org/10.1007/s12011-017-1014-2>
 42. Kesser, J., M. Korst, C. Koch C, F. J. Romberg, J. Rehage, U. Müller, M. Schmicke, K. Eder, H. M. Hammon, **H. Sadri**, and H. Sauerwein. 2017. Different milk feeding intensities during the first 4 weeks of rearing dairy calves: Part 2: Effects on the metabolic and endocrine status during calfhoo d and around the first lactation. *J. Dairy Sci.* 100: 3109–3125. <https://doi.org/10.3168/jds.2016-11595>
 43. **Sadri, H.**, H. Vakili, A. R. Alizadeh, A. Ghorbani, R. M. Bruckmaier, A. Artati, J. Adamski, and H. Sauerwein. 2017. Cinnamon: does it hold its promises in cows? Using non-targeted blood serum metabolomics profiling to test the effects of feeding cinnamon to dairy cows undergoing lactation-induced insulin resistance. *Metabolomics.* 13:28. <https://doi.org/10.1007/s11306-016-1151-1>
 44. **Sadri, H.*** F. Giallongo, A. N. Hristov, J. Werner, C. H. Lang, C. Parys, B. Saremi, and H. Sauerwein. 2016. Effects of slow-release urea and rumen-protected methionine and histidine on mTOR signaling and ubiquitin proteasome-related gene expression in skeletal muscle of dairy cows. *J. Dairy Sci.* 99: 6702–6713. <https://doi.org/10.3168/jds.2015-10673>
 45. Kolahian, S., **H. Sadri**, A. Larijani, G. Hamidian, and A. Davasaz. 2015. Supplementation of diabetic rats with leucine, zinc, and chromium: effects on function and histological structure of testis. *Int. J. Vit. Nutr. Res.* 85:311-321. <https://doi.org/10.1024/0300-9831/a000244>
 46. Samiei, A., J. B. Liang, G. R. Ghorbani, H. Hirooka, S. Ansari-Mahyari, **H. Sadri**, and V. Tufarelli. 2015. Relationship between dietary energy level, silage butyric acid and body condition score with subclinical ketosis incidence in dairy cows. *Adv. Anim. Vet. Sci.* 3(6): 354-361.
 47. Kolahian, S., **H. Sadri**, A. A. Shahbazfar, M. Amani, A. Mazadeh, and M. Mirani. 2015. The effects of leucine, zinc, and chromium supplements on inflammatory events of the respiratory system in type 2 diabetic rats. *PLOS ONE* | DOI:10.1371/journal.pone.0133374. <https://doi.org/10.1371/journal.pone.0133374>
 48. **Sadri, H.**, S. Dänicke, U. Meyer, J. Rehage, J. Frank, and H. Sauerwein. 2015. Tocopherols and tocotrienols in serum and liver of dairy cows receiving conjugated linoleic acids or a control fat supplement during early lactation. *J. Dairy Sci.* 98:7034–7043. <https://doi.org/10.3168/jds.2015-9710>
 49. Kesser, J., M. Hill, J. F. L. Heinz, C. Koch, J. Rehage, J. Steinhoff-Wagner, H. M. Hammon, B. Mielenz, H. Sauerwein, and **H. Sadri***. 2015. The rapid increase of circulating adiponectin in neonatal calves depends on colostrum intake. *J. Dairy Sci.* 98:7044–7051. <https://doi.org/10.3168/jds.2015-9726>
 50. Kazemi-Bonchenari, M., A. Alizadeh, A. Tahriri, K. Karkoodi, S. Jalali, and **H. Sadri**. 2015. The effects of partial replacement of soybean meal by xylose-treated soybean meal in the starter concentrate on performance, health status, and blood metabolites of Holstein calves. *Ital. J. Anim. Sci.* 14:138–142. <https://doi.org/10.4081/ijas.2015.3680>
 51. Olya, S., M. Khorvash, H. R. Rahmani, B. Olya, and **H. Sadri***. 2014. Oral delivery of insulin-loaded nanoparticles in diabetic rabbits and in sheep. *Czech J. Anim. Sci.* 59:251–256.

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• Conference Publications

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2. Ghaffari, M. H., **H. Sadri**, S. Häussler, J. Frahm, and H. Sauerwein. 2022. MitoCow: L-carnitine supplements alter the response of mid-lactation cows to systemic inflammation. *73rd Annual Meeting of the European Federation of Animal Science (EAAP)*. Porto, Portugal, 5-9 September 2022. Page: 469.
3. Ghaffari, M. H., **H. Sadri**, S. Häussler, J. Frahm, and H. Sauerwein. 2022. MitoCow: Liver gene expression of mitochondrial dynamics related to inflammation and dietary carnitine. *73rd Annual Meeting of the European Federation of Animal Science (EAAP)*. Porto, Portugal, 5-9 September 2022. Page: 469.
4. **Sadri, H.**,* M. H. Ghaffari, J.-B. Daniel, and H. Sauerwein. 2022. Serum acylcarnitine profiles in dairy cows from late gestation through early lactation. *73rd Annual Meeting of the European Federation of Animal Science (EAAP)*. Porto, Portugal, 5-9 September 2022. Page: 470.
5. Veshkini, A., H. M. Hammon, **H. Sadri**, B. Lazzari, V. Vendramin, H. Sauerwein, and F. Ceciliani. 2022. RNA-Seq reveals candidate microRNA (miRNA) linked to Cytochrome P450 pathway in dairy cows. *73rd Annual Meeting of the European Federation of Animal Science (EAAP)*. Porto, Portugal, 5-9 September 2022. Page: 698.
6. Dicks, L., K. Schuh, C. Prehn, M. H. Ghaffari, **H. Sadri**, H. Sauerwein, and S. Häussler. 2022. Bile acids in serum of dairy cows with high or normal body condition. *73rd Annual Meeting of the European Federation of Animal Science (EAAP)*. Porto, Portugal, 5-9 September 2022. Page: 705.
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