

ADEL PEZESHKI, B.Sc., M.Sc., Ph.D.

Department of Animal Science, Oklahoma State University

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Education

- Doctor of Philosophy (Ph.D.) in Veterinary Science, 2010
Ghent University, Ghent, Belgium
- Master of Science (M.Sc.) in Animal Science, 2006
Isfahan University of Technology, Isfahan, Iran
- Bachelor of Science (B.Sc.) in Animal Science, 2003
Zanjan University, Zanjan, Iran

Positions

- Assistant Professor, Department of Animal Science
Oklahoma State University, Stillwater, OK, USA, 2016 – present
(*Appointment: 65% teaching and 35% research*)
- Post-doctoral Fellow, Department of Production Animal Health
University of Calgary, Calgary, AB, Canada, 2011-2015

GRANTS & GIFTS

Federal Support

1. P. Chelikani (PI), **A. Pezeshki (Co-PI)**, H. Banse, M. Chou, 2015-2018. Development of whey protein and fiber combinations that sustain weight loss and improve diabetic control. Alberta Livestock and Meat Agency (ALMA). Total support awarded: \$157,575.

Internal Support

1. **A. Pezeshki**, 2017. CASNR/OAES Undergraduate Research Scholar Support for Cort Smith, Oklahoma State University. Awarded \$500.
2. **A. Pezeshki**, 2017. CASNR/OAES Undergraduate Research Scholar Support for Chloe Bradway, Oklahoma State University. Awarded \$500.

Industry Support

1. **A. Pezeshki**. 2017. Donation of amino acids (methionine, lysine and isoleucine) by Evonic Corporation. Approximate amount: \$3000.

AWARDS & RECOGNITIONS

- Heart and Stroke Foundation of Canada (HSFC) Research Fellowship (National Personnel Fellowship Award of HSFC). Bariatric surgeries for obesity: mechanisms of action on cardiovascular function and metabolism. Salary support: \$40,000 per year; Travel allowance: \$1,500 per annum, 2014-2016.
- Postdoctoral Travel & Training Support, Faculty of Veterinary Medicine, University of Calgary. \$1,300, 2015.
- Postdoctoral Travel & Training Support, Faculty of Veterinary Medicine, University of Calgary. \$1,300, 2013.
- Postdoctoral Travel & Training Support, Faculty of Veterinary Medicine, University of Calgary. \$1,200, 2013.
- University of Calgary, Faculty of Veterinary Medicine (UCVM) Post-Doctoral Fellowship award. Nutritional regulation of peptide YY secretion in cattle. Salary support: \$25,000 per year; Research allowance: \$84,805, 2011-2012.
- University of Ghent, Faculty of Veterinary Medicine FOC Scholarship. Innate defense mechanisms during the dry period of the cows against *Staphylococcus aureus* with special emphasis to Toll like receptor 2 and β -defensins. Salary support: €1,800 per month, 2010.
- University of Ghent Doctoral Grants for Candidates from Developing Countries (BOF). Innate defense mechanisms during the dry period of the cows against *Staphylococcus aureus* with special emphasis to Toll like receptor 2 and β -defensins. Salary support: €21,000 per year; Research allowance; €36,000, 2008-2010.
- Graduate M.Sc. prize for obtaining the first place in university ranking among M.Sc. students, 2006.

PUBLICATIONS

Published or Accepted Peer-Reviewed Manuscripts

1. Singh, A., **A. Pezeshki**, R. C. Zapata, N. J. Yee, C. G. Knight, U. I. Tuor and P. K. Chelikani. 2016. Diets enriched in whey or casein improve energy balance, prevent morbidity and renal damage in salt-loaded and high-fat fed spontaneously hypertensive stroke-prone rats. *J. Nutr. Biochem.* 37: 47-59. (Biochemistry and Molecular Biology: 59/289; IF=4.668)
2. **Pezeshki, A.**, R. C. Zapata, A. Singh, N. J. Yee and P. K. Chelikani. 2016. Low protein diets produce divergent effects on energy balance. *Sci. Rep.* 28: 25145. (Multidisciplinary Sciences: 5/57; IF=5.578)
3. EbnAli, A., M. Khorvash, G. R. Ghorbani, A. H. Mahdavi, M. Malekkhahi, M. Mirzaee, **A. Pezeshki** and M. H. Ghaffari. 2015. Effects of forage offering method on performance, rumen fermentation, nutrient digestibility, and nutritional behavior in Holstein dairy calves. *J. Anim. Physiol. Anim. Nutr.* doi: 10.1111/jpn.12442. (Agriculture, Dairy & Animal Science: 14/52; IF=1.317)
4. **Pezeshki, A.**, A. Fahim and P. K. Chelikani. 2015. Dietary whey and casein differentially affect energy balance, gut hormones, glucose metabolism and taste preference in diet-induced obese rats. *J. Nutr.* 145(10): 2236-44. (Nutrition & Dietetics: 13/77; IF=3.875)

5. Daneshvar, D., M. Khorvash, E. Ghasemi, A. H. Mahdavi, B. Moshiri, M. Mirzaee, **A. Pezeshki** and M. H. Ghaffari. 2015. The effect of restricted milk feeding through conventional or step-down methods with or without forage provision in starter feed on performance of Holstein bull calves. *J. Anim. Sci.* 93(8): 3979-89. (Agriculture, Dairy & Animal Science: 6/52; IF=1.920)
6. Omidi-Mirzaei, H., M. Khorvash, G. R. Ghorbani, B. Moshiri, M. Mirzaei, **A. Pezeshki** and M. H. Ghaffari. 2015. Effects of the step-up/step-down and step-down milk feeding procedures on the performance, structural growth, and blood metabolites of Holstein dairy calves. *J. Dairy Sci.* Doi: 10.3168/jds.2014-9260. (Agriculture, Dairy & Animal Science: 2/52; IF=2.550)
7. Jafarpour, N., M. Khorvash, H. R. Rahmani, **A. Pezeshki** and M. H. Ghaffari. 2015. Dose-responses of zinc-methionine supplement on growth, blood metabolites, and gastrointestinal development in sheep. *J. Anim. Physiol. Anim. Nutr.* 99: 668-675. (Agriculture, Dairy & Animal Science: 14/52; IF=1.317)
8. **Pezeshki, A.** and P. K. Chelikani. 2014. Effects of Roux-en-Y gastric bypass and ileal transposition surgeries on glucose and lipid metabolism in skeletal muscle and liver. *Surg. Obes. Relat. Dis.* 10: 217-228. (Surgery: 8/199; IF=4.121)
9. Nausheen, S., I. H. Shah, **A. Pezeshki**, D. L. Sigalet and P. K. Chelikani. 2013. Effects of sleeve gastrectomy and ileal transposition on body weight, gut hormones and glucose metabolism in rats. *Am. J. Physiol. Endocrinol. Metab.* 305: E507-E518. (Physiology: 9/79; IF=4.514)
10. **Pezeshki, A.**, G. P. Muench and P. K. Chelikani. 2012. Expression of peptide YY, proglucagon, Y2 and glucagon-like peptide-1 receptors, in bovine peripheral tissues. *J. Dairy Sci.* 95: 5089-5094. (Agriculture, Dairy & Animal Science: 3/54; IF=2.566)
11. Collier, R., E. L. Annen and **A. Pezeshki**. 2012. Effects of continuous lactation and short dry periods on mammary function and animal health. *Animal.* 6: 403-414. (Agriculture, Dairy & Animal Science: 9/54; IF=1.648)
12. **Pezeshki, A.**, P. Stordeur, H. Wallemacq, F. Schynts, M. Stevens, P. Boutet, L. Peelman, B. De Spiegeleer, L. Duchateau, P. Delahaut, F. Bureau and C. Burvenich. 2011. Variation of inflammatory dynamics and mediators in primiparous cows after intramammary challenge with *Escherichia coli*. *Vet. Res.* 42: 15. (Veterinary sciences: 1/141; IF=4.05)
13. Stevens, M. G., L. J. Peelman, B. De Spiegeleer, **A. Pezeshki**, G. R. Van De Walle, L. Duchateau and C. Burvenich. 2011. Differential gene expression of the toll-like receptor-4 cascade and neutrophil function in early- and mid-lactating dairy cows. *J. Dairy Sci.* 94(3): 1277-88. (Agriculture, Dairy & Animal Science: 1/44; IF=2.463)
14. **Pezeshki, A.**, A. V. Capuco, B. De Spiegeleer, L. Peelman, M. Stevens, R. J. Collier and C. Burvenich. 2010. Review: An integrated view on how the management of the dry period length of lactating cows could affect mammary biology and defense. *J. Anim. Physiol. Anim. Nutr.* 94: e7-e30. (Agriculture, Dairy & Animal Science: 15/54; IF=1.229)
15. Van Dorpe, S., V. Vergote, **A. Pezeshki**, C. Burvenich, K. Peremans and B. De Spiegeleer. 2010. Hydrophilic interaction LC of peptides: Column comparison and clustering. *J. Sep. Sci.* 33:1-12. (Chemistry Analytical: 25/75; IF=2.746)
16. **Pezeshki, A.**, V. Vergote, S. Van Dorpe, B. Baert, C. Burvenich, A. Popkov and B. De Spiegeleer. 2009. Adsorption of peptides at the sample-drying step: influence of solvent evaporation technique, vial material and solution additive. *J. Pharm. Biomed. Anal.* 49: 607-612. (Pharmacology and Pharmacy: 77/260; IF=2.761)
17. **Pezeshki, A.**, J. Mehrzad, G. R. Ghorbani, B. De Spiegeleer, R. J. Collier and C. Burvenich. 2008. Effect of dry period length reduction to 28 days on performance of multiparous dairy cows in the subsequent lactation. *Can. J. Anim. Sci.* 88: 449-456. (Agriculture, Dairy & Animal Science: 23/54; IF=0.680)

18. De Spiegeleer, B., V. Vergote, **A. Pezeshki**, K. Peremans and C. Burvenich. 2008. Impurity profiling quality control testing of synthetic peptides using liquid chromatography-photodiode array-fluorescence and liquid chromatography-electrospray ionization-mass spectrometry: the obestatin case. *Anal. Biochem.* 376: 229-234. (Biochemical Research Methods: 32/75; IF=2.948)
19. **Pezeshki, A.**, J. Mehrzad, G. R. Ghorbani, H. R. Rahmani, R. J. Collier and C. Burvenich. 2007. Effects of short dry periods on performance and metabolic parameters in Holstein dairy cows. *J. Dairy Sci.* 90: 5531-5541. (Agriculture, Dairy & Animal Science: 1/44; IF=2.284)

Other Manuscripts

- Spring, S., and **A. Pezeshki**. 2016. Food supplementation for companion animals. *The Fall Cowpoke News: the magazine of department of Animal Science, Oklahoma State University.* Page 8.

Abstracts (Poster and Oral) Presented at the National/International Conferences

1. Spring, S., A. Singh, R. C. Zapata, P. K. Chelikani, and **A. Pezeshki**. 2017. Role of dietary methionine and peripheral noradrenergic nerve fibers in metabolic outcomes of low protein diets. Whiteman Competition, Oklahoma State University, Stillwater, Oklahoma.
2. Spring, S., A. Singh, R. C. Zapata, P. K. Chelikani, and **A. Pezeshki**. 2017. Role of dietary methionine and peripheral noradrenergic nerve fibers in metabolic outcomes of low protein diets. OSU Virtual Research Poster Symposium, the 28th Research Symposium, Oklahoma State University, Stillwater, Oklahoma.
3. Singh, A., R. C. Zapata, **A. Pezeshki**, and P. K. Chelikani. 2017. Cholecystokinin-1 and Peptide YY Y-2 Receptors Mediate the Effects of Prebiotic Fiber on Energy Balance. Gastrointestinal Control of Metabolism, Keystone Symposia, Copenhagen, Denmark.
4. Singh, A., R. C. Zapata, **A. Pezeshki**, and P. K. Chelikani. 2017. Dietary lactalbumin and lactoferrin interact with inulin to additively modulate energy balance in obese rats. Institute of Food Technologists, Las Vegas, Nevada.
5. Singh, A., R. C. Zapata, **A. Pezeshki**, and P. K. Chelikani. 2016. Cholecystokinin-1 receptor mediates the effects of prebiotic fiber on energy balance in rats. Obesity Week, New Orleans, Louisiana. Poster Presentation.
6. Singh, A., R. C. Zapata, **A. Pezeshki**, and P. K. Chelikani. 2016. Dietary lactoferrin and inulin combination produces a greater improvement in energy balance than either ingredient alone in obese rats. Obesity Week, New Orleans, Louisiana. Poster Presentation.
7. Singh, A., **A. Pezeshki**, R. C. Zapata, U. I. Tuor, and P. K. Chelikani. 2016. Dietary whey, lactalbumin and lactoferrin protect against stroke onset in spontaneously hypertensive stroke-prone rat. Obesity Week, New Orleans, Louisiana. Poster Presentation.
8. Zapata, R. C., **A. Pezeshki**, A. Singh, and P. K. Chelikani. 2016. Anti-obesity and anti-diabetic properties of whey fractions lactalbumin and lactoferrin are independent of calorie intake. Obesity Week, New Orleans, Louisiana. Poster Presentation.
9. Zapata, R. C., **A. Pezeshki**, A. Singh, and P. K. Chelikani. 2016. Tryptophan and histidine restrictions produce age-dependent differential effects on energy balance. Obesity Week, New Orleans, Louisiana. Poster Presentation.
10. Singh, A., R. C. Zapata, **A. Pezeshki**, and P. K. Chelikani. 2016. Dose-dependent effects of dietary inulin on energy balance, diet preference and glucose tolerance in high-fat fed Sprague-Dawley rats. Institute of Food Technologists, Chicago, Illinois. Poster Presentation.

11. Zapata, R. C., **A. Pezeshki**, A. Singh, N. Yee, and P. K. Chelikani. 2016. Low protein diets produce divergent effects on energy balance. The American Dairy Science Association-American Society of Animal Science (ADSA-ASAS) joint animal meeting, Salt Lake City, Utah. Oral Presentation.
12. Zapata, R. C., **A. Pezeshki**, A. Singh, and P. K. Chelikani. 2016. Anti-obesity and anti-diabetic properties of whey fractions lactalbumin and lactoferrin are independent of calorie intake. The American Dairy Science Association-American Society of Animal Science (ADSA-ASAS) joint animal meeting, Salt Lake City, Utah. Oral Presentation.
13. **Pezeshki A.**, A. Fahim, and P. K. Chelikani. 2015. Dietary whey and casein produce differential effects on energy balance, gut hormones, glucose metabolism and taste preference in diet-induced obese rats. The American Dairy Science Association-American Society of Animal Science (ADSA-ASAS) joint animal meeting, Orlando, Florida. Oral Presentation.
14. Zapata, R. C., **A. Pezeshki**, A. Singh, M. Chou, and P. K. Chelikani. 2015. Lactoferrin and lactalbumin are more effective than whey protein in improving energy balance and glucose tolerance in diet-induced obese rats. The American Dairy Science Association-American Society of Animal Science (ADSA-ASAS) joint animal meeting, Orlando, Florida. Oral Presentation.
15. **Pezeshki, A.**, A. Fahim, and P. K. Chelikani. 2015. Differential effects of dietary whey and casein on energy balance, gut hormones, glucose metabolism and taste preference in diet-induced obese rats. Institute of Food Technologists. Chicago, Illinois. Poster Presentation.
16. Singh, A., **A. Pezeshki**, R. C. Zapata, U. I. Tuor, and P. K. Chelikani. 2015. Effects of dietary whey, lactalbumin and lactoferrin on energy balance and stroke incidence in stroke-prone spontaneously hypertensive rats. Institute of Food Technologists. Chicago, Illinois. Poster Presentation.
17. **Pezeshki, A.**, A. Fahim, and P. K. Chelikani. 2015. Milk proteins produce differential effects on energy balance, glucose metabolism and taste preference in diet-induced obese rats. 33rd Western Canadian Dairy Seminar. Red Deer, Alberta. Poster Presentation.
18. **Pezeshki, A.**, A. Singh, R.C Zapata, N. Yee, and P. K. Chelikani. 2014. Feeding response to moderately low protein diets is mediated in part by serotonin type-3 receptors in rats. Obesity Week. Boston, Massachusetts. Poster Presentation.
19. Zapata, R. C., **Pezeshki A.**, A. Singh, and P. K. Chelikani. 2014. Effects of low protein-high fat diets on energy balance, body composition and hormone secretion in diet-induced obese rats. Obesity Week. Boston, Massachusetts. Poster Presentation.
20. Zapata, R. C., **A. Pezeshki**, A. Singh, M. Chou, and P. K. Chelikani. 2014. Effects of dietary whey, lactalbumin and lactoferrin on energy balance, body composition, glucose tolerance and hormone response in diet-induced obese rats. Obesity Week. Boston, Massachusetts. Poster Presentation.
21. Singh, A., **A. Pezeshki**, R. C. Zapata, U. I. Tuor, and P. K. Chelikani. 2014. Effects of dietary whey and casein on energy balance and stroke incidence in stroke-prone spontaneously hypertensive rats. Obesity Week. Boston, Massachusetts. Poster Presentation.
22. **Pezeshki, A.**, N. Yee, A. Fahim, and P. K. Chelikani. 2014. Milk proteins for treating obesity: effects on energy balance and glucose control. 32nd Western Canadian Dairy Seminar. Red Deer, Alberta. Poster Presentation.
23. Singh, A., **A. Pezeshki**, R. C. Zapata, N. Yee, and P. K. Chelikani. 2014. Effects of dietary casein and whey protein on cardiovascular health and energy balance. 32nd Western Canadian Dairy Seminar. Red Deer, Alberta. Poster Presentation.

24. **Pezeshki, A.** and P. K. Chelikani. 2013. Effects of Roux-en-Y gastric bypass and ileal transposition surgeries on glucose and lipid metabolism in skeletal muscle and liver. Obesity Week. Atlanta, Georgia. Poster Presentation.
25. **Pezeshki, A.,** N. Yee, and P. K. Chelikani. 2013. Effects of low protein diets on food intake, energy expenditure and body composition in obesity prone rats. Obesity Week. Atlanta, Georgia. Poster Presentation.
26. **Pezeshki, A.,** A. Fahim, N. Yee, and P. K. Chelikani. 2013. Effects of dietary casein and whey protein on energy balance, body composition and glucose tolerance in diet induced obese rats. Obesity Week. Atlanta, Georgia. Poster Presentation.
27. **Pezeshki, A.,** A. Fahim, S.K. Rizvi, N. Yee, and P. K. Chelikani. 2013. Effects of dietary casein and whey protein on energy balance, body composition and glucose tolerance in diet induced obese rats. BIT's 2nd Annual World Congress of Diabetes. Xi'an, China. Poster Presentation.
28. Chelikani, P. K. and S. Nausheen. 2013. Bariatric surgeries: understanding the mechanisms of weight loss and diabetes improvement. BIT's 2nd Annual World Congress of Diabetes. Xi'an, China. Poster Presentation.
29. **Pezeshki, A.,** S. Nausheen, D. L. Sigalet, I. H. Shah, and P. K. Chelikani. 2013. Effects of sleeve gastrectomy and ileal transposition, alone or in combination, on gut hormones and glucose metabolism in rats. Neuronal Control of Appetite, Metabolism and Weight (C6). Banff, Alberta. Poster Presentation.
30. Nausheen, S., I. H. Shah, **A. Pezeshki,** D. L. Sigalet, and P. K. Chelikani. 2012. Bariatric surgeries for obesity: Effects of sleeve gastrectomy and ileal transposition on body weight, gut hormones and glucose tolerance in rats. 3rd Canadian stroke congress. Calgary, Alberta. Poster Presentation.
31. **Pezeshki, A.** and P. K. Chelikani. 2012. Effect of Roux-en-Y gastric bypass and ileal transposition surgeries on skeletal muscle glucose and lipid metabolism in rats. 3rd Canadian stroke congress. Calgary, Alberta. Poster Presentation.
32. Nausheen, S., I. H. Shah, **A. Pezeshki,** D. L. Sigalet, and P. K. Chelikani. 2012. Effects of sleeve gastrectomy and ileal transposition on body weight, gut hormones and glucose metabolism in rats. 3rd Canadian Obesity Student Meeting (COSM), University of Alberta, Edmonton, Alberta. Poster Presentation.
33. Sharma, N., **A. Pezeshki,** and P.K. Chelikani. 2012. Bioactive components from milk protein: beneficial effects on body weight, diabetes and cardiovascular health. Dairy Researchers Forum, University of Alberta, Edmonton, Alberta. Poster Presentation.
34. **Pezeshki A.,** G. P. Muench, and P. K. Chelikani. 2012. Expression of peptide YY, proglucagon, Y2 and glucagon-like peptide-1 receptors, in bovine peripheral tissues. 5th University of Calgary faculty of veterinary medicine research day, Calgary, Alberta. Poster Presentation.
35. Nausheen, S., I. H. Shah, **A. Pezeshki,** D. L. Sigalet, and P. K. Chelikani. 2012. Enhanced lower gut stimulation decreases weight gain and improves glucose tolerance. 5th University of Calgary faculty of veterinary medicine research day, Calgary, Alberta. Poster Presentation.
36. Nausheen, S., I. H. Shah, **A. Pezeshki,** D. L. Sigalet, and P. K. Chelikani. 2011. Effects of surgical manipulations of foregut and hindgut on food intake, body weight and glucose tolerance. 4th University of Calgary faculty of veterinary medicine research day, Calgary, Alberta. Poster Presentation.
37. Nausheen, S., I. H. Shah, **A. Pezeshki,** D. L. Sigalet, and P. K. Chelikani. 2011. Comparison of the effects of sleeve gastrectomy and ileal transposition on food intake, body weight, glucose tolerance and gut adaptation in rats. 29th Annual scientific meeting for obesity, Orlando, Florida. Poster Presentation.

38. Nausheen, S., I. H. Shah, **A. Pezeshki**, D. L. Sigalet, and P. K. Chelikani. 2011. Effects of sleeve gastrectomy and ileal transposition on food intake, body weight, gut adaptation and glucose tolerance in rats, 2011. GIRG symposium, advances in GI physiology and treatment, Banff, Alberta. Poster Presentation.
39. **Pezeshki, A.**, J. Mehrzad, G. R. Ghorbani, B. De Spiegeleer, H. R. Rahmani, R. J. Collier, and C. Burvenich. 2010. Modification of the dry period length and metabolism of dairy cows during transition. 14th international conference on production diseases in farm animals, Ghent, Belgium. Poster Presentation.
40. Stevens, M., **A. Pezeshki**, L. Peelman, M. Van Poucke, C. Rogiers, G. Van De Walle, L. Duchateau, and C. Burvenich. 2010. Effect of lactation stage and migration on TLR4 signalling in bovine neutrophils. 14th international conference on production diseases in farm animals, Ghent, Belgium. Poster Presentation.
41. **Pezeshki, A.**, M. Stevens, A. Capuco, A. Bruno, L. Peelman, B. De Spiegeleer, and C. Burvenich. 2009. Innate defense of bovine teat canal in nonlactating Holstein cows. EADGENE congress, Paris, France. Poster Presentation.
42. Stevens, M., **A. Pezeshki**, B. De Spiegeleer, L. Peelman, and C. Burvenich. 2009. Functional genomics of bovine neutrophil during lactation. EADGENE congress, Paris, France. Poster Presentation.
43. Burvenich, C., L. Peelman, B. De Spiegeleer, M. Stevens, and **A. Pezeshki**. 2009. Detilleux J.C., Capuco A.V., Severity variation of clinical *E.coli* mastitis in cows: where do we stand? EADGENE congress, Paris, France. Poster Presentation.
44. **Pezeshki, A.**, V. Vergote, C. Burvenich, and B. De Spiegeleer. 2009. Concentration-dependent peptide losses during the drying step in the sample preparation: influence of additives. Scientific afternoon in pharmaceutical faculty (FFW), Ghent University, Ghent, Belgium. Poster Presentation.
45. Stevens, M., M. Van Poucke, L. Duchateau, L. Peelman, **A. Pezeshki**, B. De Spiegeleer, and C. Burvenich. 2009. Gene expression of TLR4 and associated genes in bovine neutrophils during early and midlactation. Scientific afternoon in pharmaceutical faculty (FFW), Ghent University, Ghent, Belgium. Poster Presentation.
46. **Pezeshki, A.**, A. V Capuco, R. J. Collier, B. De Spiegeleer, and C. Burvenich. 2009. Prepartum immune status and mammary gland involution in cows with modified dry period lengths. 75th Anniversary of Veterinary Medicine at the University of Ghent, Ghent, Belgium. Poster Presentation.
47. **Pezeshki, A.**, V. Vergote, C. Burvenich, B. De Spiegeleer. 2009. Peptidomics of bovine mammary gland: Concentration-dependent peptide losses during sample preparation can be minimized applying n-nonyl- β -D-glucopyranoside. 75th Anniversary of Veterinary Medicine at the University of Ghent, Ghent, Belgium. Poster Presentation
48. Mehrzad, J., D. Janssen, **A. Pezeshki**, L. Duchateau, C. Burvenich. 2009. CD8+ T-Cell trafficking in the mammary gland during experimentally induced *E. coli* mastitis in primiparous cows. 75th Anniversary of Veterinary Medicine at the University of Ghent, Ghent, Belgium. Poster Presentation.
49. Stevens, M., M. Van Poucke, L. Duchateau, L. Peelman, **A. Pezeshki**, B. De Spiegeleer, and C. Burvenich. 2009. Gene expression of TLR4 and associated genes in bovine neutrophils during early and midlactation. 75th Anniversary of Veterinary Medicine at the University of Ghent, Ghent, Belgium. Poster Presentation.
50. **Pezeshki, A.**, V. Vergote, C. Burvenich, and B. De Spiegeleer. 2008. Bovine mammary gland peptidomics: An analytical-functional approach to physiology and drug development. European Biomarkers Summit, Proteomics Europe and Advances in Metabolic Profiling, Lisbon, Portugal. Poster Presentation.
51. Vergote, V., **A. Pezeshki**, S. Vandorpe, C. Burvenich, and B. De Spiegeleer. 2008. Inhibiting protease-activity in peptidomics: strategies during sampling and receptor studies. European Biomarkers Summit, Proteomics Europe and Advances in Metabolic Profiling, Lisbon, Portugal. Poster Presentation.

52. De Spiegeleer, B., V. Vergote, B. Baert, **A. Pezeshki**, S. Vandorpe, and C. Burvenich. 2008. Screening methodology of chemical and metabolic stability of potential peptide drugs. European Biomarkers Summit, Proteomics Europe and Advances in Metabolic Profiling, Lisbon, Portugal. Poster Presentation.
53. **Pezeshki, A.**, J. Mehrzad, G. R. Ghorbani, H. R. Rahmani, R. J. Collier, and C. Burvenich. 2007. Energy balance of Holstein cows following a short dry period. Heifer mastitis conference, Ghent, Belgium. Poster Presentation.
54. **Pezeshki, A.**, J. Mehrzad, G. R. Ghorbani, H. R. Rahmani, R. J. Collier, and C. Burvenich. 2007. Effect of short dry periods on milk production and reproductive parameters in Holstein cows. Heifer mastitis conference, Ghent, Belgium. Poster Presentation.
55. Senepart, L., V. Vergote, **A. Pezeshki**, S. Bode, S. Lefever, B. Baert, K. Peremans, C. Burvenich, and B. De Spiegeleer. 2007. Peptidomics of the udder: peptide profiling of the teat canal. Heifer mastitis conference, Ghent, Belgium. Poster Presentation.
56. **Pezeshki, A.**, G. R. Ghorbani, and H. R. Rahmani. 2006. Effects of short dry periods on performance of Holstein dairy cows in Iran. The XII th AAAP Animal Science Congress, Busan, Korea. Poster Presentation.
57. Ghorbani, G. R., **A. Pezeshki**, and H. R. Rahmani. 2005. Effects of short dry periods on milk yield of dairy cattle. Proceeding of the 56th European Association for Animal Production (EAAP) Annual Meeting, Uppsala, Sweden. Poster Presentation.
58. **Pezeshki, A.**, and H. R. Rahmani. 2005. Effects of pre-partum body condition score on milk yield of Holstein dairy cows. Proceeding of the 56th European Association for Animal Production (EAAP) Annual Meeting, Uppsala, Sweden. Poster Presentation.
59. **Pezeshki, A.**, H. R. Rahmani, G. R. Ghorbani, M. Alikhani, and M. Mohammadalipour. 2005. Effects of short dry periods on health disorders in dairy cattle. Proceeding of the 56th European Association for Animal Production (EAAP) Annual Meeting, Uppsala, Sweden. Poster Presentation.

INVITED TALKS

1. 10/7/16. Presented seminar titled “The metabolic outcome of low protein diets” to the department of Animal Science. Oklahoma State University, Stillwater, OK.
2. 2/16. Presentation on “Effect of surgical and diet interventions on energy balance: mechanisms of action” to the Nutrition Group of the department of Animal Science. Oklahoma State University, Stillwater, OK.
3. 9/25/15. Presentation on “40 years of academic leadership: A tribute to Christian Burvenich” to the History of Physiology About Myth, Arts and Sciences Aula of Ghent University. Ghent, Belgium.
4. 4/15. Presentation on “Role of dietary protein in the regulation of energy balance: In search of a mechanism” to the department of Animal Science. Zanzan University, Zanzan, Iran.
5. 6/8/12. Presentation on “Effect of Roux-en-Y gastric bypass and ileal transposition surgeries on skeletal muscle glucose and lipid metabolism in rats” to the 1st annual conference of Canadian Association of Bariatric Physicians and Surgeons (CABPS). Mississauga, Ontario.
6. 6/21/10. Presentation on “Variation of inflammatory reactions in the mammary gland of primiparous cows after intramammary challenge with *Escherichia coli*” to the 14th international conference on Production Diseases in Farm Animals. Ghent, Belgium.

TEACHING

- **Principals of Animal Nutrition (ANSI 3543):** A junior level class concentrating on the principals of nutrition and digestion in monogastrics and ruminants. Students enrolled in food and animal science, biochemistry and zoology take this class.
- **Basic Nutrition for Pets (ANSI 3753):** A junior level class focusing on basic concepts of nutrition and feeding practices for common companion animals and the ways to optimize the nutritional health of animals. Students from different majors from different colleges are enrolled in this class.
- **Nutritional Physiology and Metabolism (ANSI 5010):** A graduate level class emphasizing on advanced concepts of nutritional physiology and metabolism to optimize the nutritional health of animals. The students enrolled in animal science take this class.
- **Animal Science Graduate Seminar (ANSI 5110):** A graduate level class focusing on recent research findings in different areas of Animal Science. The graduate students in the department of Animal Science take this class.

ADVISING & MENTORING

Undergraduate Students

- Mentor for Undergraduate Research Scholars (n=2): 2017-present
- Mentor for Undergraduate Teaching Assistants (n=3): 2016-present
- Mentor for Undergraduate Research Assistants (n=8): 2016-present

Graduate Students

- Served as an advisor and committee chair for M.S. students (n=1): 2016-present
- Served as a committee member for M.S. students (n=2): 2016-present

PROFESSIONAL SERVICES

Ad-Hoc Journal Reviewer

- Reviewed more than 10 manuscripts (2008 - present) for the following international journals: The Journal of Nutrition (1); Journal of Pharmaceutical and Biomedical Analysis (1); Biotechnic & Histochemistry (1); Journal of Dairy Science (2); Veterinary Quarterly (1); Cell Biology and Toxicology (1); Comparative Clinical Pathology (1); Bio- and Medical Informatics and Cybernetics: BMIC (1); Springer Plus (1)

Grant Panel Reviewer

- Reviewed an internal Hatch Proposal for OAES, April 6 2016.

Departmental Committees

- Research committee, 2016 – present
- Research building committee, 2016 – present
- Search committee, Assistant Professor of Computational Genomics, 2016
- Search committee, Research Lab Coordinator, 2016

Departmental Program Coordination

- Safety program coordinator, 2016 - present
- Chemical/Hazardous Materials coordinator, 2016 - present

PROFESSIONAL AFFILIATIONS

- The American Dairy Science Association (ADSA): 2015 – present.
- The Obesity Society: 2013 – present.
- Canadian Obesity Network: 2011 – present.