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Education

B.S., Animal Science, Shenyang Agricultural University, 2005
M.S., Animal Science, China Agricultural University, 2008
Ph.D., Animal Sciences, University of Illinois at Urbana-Champaign, 2011

Work History

Post-doctoral research fellow, William H. Miner Agricultural Institute, 2011-2013
Post-doctoral research fellow, University of Illinois at Urbana-Champaign, 2013-2015
Assistant adjunct professor, Department of Animal Science, University of California Davis, 2015-present

List of Peer-Reviewed Publication

1. **Ji, P.,** K. M. Schachtschneider, L. B. Schook, R. R. Walker, and R. W. Johnson. 2016. Peripheral Viral Infection Induced Microglial Sensome Genes and Enhanced Microglial Cell Activity in the Hippocampus of Neonatal Piglets. Brain Behav. Immun. doi:10.1016/j.bbi.2016.02.010 (Available online Feb. 9, 2016)
2. **Ji, P.,** H. A. Tucker, R. E. Clark, M. Miura, and C. S. Ballard. 2016. Short communication: Effect of on-farm feeding practices on rumen protected lysine products. J. Dairy Sci. 99:1242-1246
3. Dann, H. M., S. M. Fredin, K. W. Cotanch, R. J. Grant, C. Kokko, **P. Ji,** and K. Fujita. 2015. Effects of corn-based reduced-starch diets using alternative carbohydrate sources on performance of lactating Holstein cows. J. Dairy Sci. 98:4041-4054
4. **Ji, P.**, J. K. Drackley, M. J. Khan, and J. J. Loor. 2014. Overfeeding energy upregulates PPARγ-controlled adipogenic networks and inducible adipocytokines in visceral and subcutaneous adipose depots of Holstein cows. J. Dairy Sci. 97:3431-3440.
5. **Ji, P.**, J. K. Drackley, M. J. Khan, and J. J. Loor. 2014. Inflammation- and lipid metabolism-related gene network signatures in visceral and subcutaneous adipose depots of dairy cows. J. Dairy Sci. 97:3441-3448
6. Osorio, J. S., **P. Ji**, J. K. Drackley, D. Luchini, and J. J. Loor. 2014. Smartamine M and MetaSmart supplementation during the peripartal period alter hepatic expression of gene networks in 1-carbon metabolism, inflammation, oxidative stress, and the growth hormone-insulin-like growth factor 1 axis pathways. J. Dairy Sci. 97:7451-7464
7. Osorio, J. S., E. Trevisi, **P. Ji**, J. K. Drackley, D. Luchini, G. Bertoni, D. Luchini, and J. J. Loor. 2014. Biomarkers of inflammation, metabolism, and oxidative stress in blood, liver,

and milk reveal a better immunometabolic status in peripartal cows supplemented with Smartamine M or MetaSmart. J. Dairy Sci. 97:7437-7450.

8. Osorio, J. S., **P. Ji**, J. K. Drackley, D. Luchini, and J. J. Loor. 2013. Supplemental Smartamine M or MetaSmart during the transition period benefit postpartal cow performance and blood neutrophil function. J. Dairy Sci. 96:6248-6263.
9. **Ji, P.**, J. S. Osorio, J. K. Drackley and J. J. Loor. 2012. Overfeeding a moderate energy diet prepartum does not impair bovine adipose tissue insulin signal transduction and induces marked changes in gene network expression during the peripartal period. J. Dairy Sci. 95:4333-4351.
10. P. Chen, **P. Ji**, and S. Li. 2008. Effects of Feeding Extruded Soybean, Ground Canola Seed and Whole Cottonseed on Rumen Fermentation, Performance and Milk Fatty Acid Profile in Early Lactation Dairy Cows. Asian-Aust. J. Anim. Sci. 21: 204-213.
11. **Ji, P.**, P. Chen, S. Li, and Z. J. Cao. 2008. Effect of Oilseeds on Apparent Digestibility, Milking Performance, and Blood Indices of Dairy Cows in Early Lactation. Chinese J. Anim. Nutr. 20: 217-222.

Conference Proceeding

1. **Ji, P.**, and H. M. Dann. 2013. Negative protein balance: implications for transition cows. Pages101-112 in Proc. Cornell Nutrition Conference. East Syracuse, NY. Cornell University, Ithaca, NY.
2. Cao, Z. J., **P. Ji,** and S. L. Li. 2008. Effects of Corn Silage Particle Size and Feeding Method on Ruminal Fermentation, Chewing Activity and Passage Rate of Cows in Late Lactation. Pages: 15-24, in Proc. 10th Animal Nutrition Symposium. Hangzhou, Zhejiang, China.
3. Chen, P., **P. Ji**, and S. L. Li. 2007. Effect of differentially processed soybean on apparent total tract digestibility of nutrients and ruminal fermentation of dairy cows. Pages:16-23, in Proc. 2nd China Ruminant Development Conference. Tongliao, Inner Mongolia, China.

Abstract

1. **Ji, P.,** K. M. Schachtschneider, L. B. Schook, R. W. Johnson. 2015. Respiratory viral infection in neonatal piglets is associated with up regulation of microglial sensome transcripts in the hippocampus and increased microglial cell activity. Brain Behav. Immun. 49:e21
2. Dann, H. M., **P. Ji**, K. W. Cotanch, C. S. Ballard, R. J. Grant, and C. Elrod. 2014. Evaluation of Celmanax SCP on Lactational Performance and Ruminal Fermentation of Holstein Dairy Cows Fed Corn Silage Based Diets with a Moderate Starch Content. ADSA-ASAS Joint Annual Meeting.
3. **Ji, P.**, H. M. Gauthier, S. Y. Morrison, S. E. Williams, K. M. Morrill, D. M. Haines, and H. M. Dann. 2013. Effect of calving management on calf vitality, blood gas, behavior, and intake for 24 hours after birth. *J. Dairy Sci.* 96(E-Suppl.1):350.

4. S. Y. Morrison, **P. Ji**, H. M. Gauthier, S. E. Williams, and H. M. Dann. 2013. The effect of calving environment on the behavior, metabolism, and milk yield of Holstein heifers. *J. Dairy Sci.* 96(E-Suppl.1):276
5. **Ji, P.**, J. J. Loor, H. M. Gauthier, S. Y. Morrison, F. T, da Rosa, H. M. Dann. 2013. Physiological and transcriptional adaptations in skeletal muscle of Holstein cows in response to plane of dietary protein during early lactation. *J. Dairy Sci.* 96(E-Suppl.1):530
6. H. M. Dann, **P. Ji**, K. W. Cotanch, H. M. Gauthier, M. P. Carter, S. Y. Morrison, J. Darrah, Y. Koba, and R. J. Grant. 2013. Effect of dietary and metabolizable protein in early lactation on the lactational performance and metabolism of dairy cows. *J. Dairy Sci.* 96(E-Suppl.1):245
7. **Ji, P.**, C. S. Ballard, R. E. Clark, B. M. Sweeney, and C. Kokko. 2012. Assessment of lysine released from rumen-protected lysine products exposed to high and low moisture TMR over 24 hours. *J. Dairy Sci.* 95(Suppl.2):356.
8. **Ji, P.**, C. S. Ballard, R. E. Clark, B. M. Sweeney, and C. Kokko. 2012. Does mechanical mixing of TMR compromise protection efficacy of rumen-protected lysine products? *J. Dairy Sci.* 95(Suppl.2):356.
9. Osorio, J. S., **P. Ji**, S. L. Rodriguez-Zas, D. Luchini, R. E. Everts, H. A. Lewin, J. K. Drackley, and J. J. Loor. 2012. Hepatic transcriptomics in dairy cows supplemented with SmartamineM or MetaSmart during the peripartal period. *J. Dairy Sci.* 95(Suppl.2):352.
10. Osorio, J. S., E. Trevisi, **P. Ji**, D. Luchini, J. K. Drackley, G. Bertoni, and J. J. Loor. 2012. Immunometabolic indices in dairy cows supplemented with SmartamineM or MetaSmart during the peripartal period. *J. Dairy Sci.* 95(Suppl.2):357.
11. Osorio, J. S., E. Trevisi, **P. Ji**, D. Luchini, J. K. Drackley, G. Bertoni, and J. J. Loor. 2012. Effects of a moderate-energy diet during the close-up dry period on immunometabolic indices in peripartal dairy cows. *J. Dairy Sci.* 95(Suppl.2):197.
12. **Ji, P.**, J. S. Osorio, J. K. Drackley, and J. J. Loor. 2011. Physiological and transcriptional adaptations in adipose tissue of dairy cows in response to prepartal plane of dietary energy. *J. Dairy Sci.* 94(E-suppl.):180.
13. **Ji, P.**, J. S. Osorio, J. K. Drackley, and J. J. Loor. 2010. Insulin signal transduction in adipose tissue of peripartal dairy cows fed two levels of dietary energy prepartum. *J. Dairy Sci.* 93(E-suppl.):777.
14. Osorio, J. S., **P. Ji**, G. Invernizzi, J. K. Drackley, and J. J. Loor. 2010. Evaluation of immunological status of newborn dairy calves when respective dams were fed a stepwise moderate energy diet or a controlled energy diet during the dry period. *J. Dairy Sci.* 93(E-suppl.):765.
15. **Ji, P.**, J. J. Loor, A. Nikkhah, M. Bionaz, N. A. Janovick, and J. K. Drackley. 2009. Changes in deposition of visceral adipose tissues and expression of lipogenesis-related genes induced by diets with different energy levels in non-lactating cows. *J. Dairy Sci.* 92(E-suppl.):150.
16. Mukesh, M., J. K. Drackley, **P. Ji**, M. Bionaz, S. L. Rodriguez-Zas, R. E. Everts, H. A. Lewin, and J. J. Loor. 2009. Transcriptional adaptations in mesenteric and subcutaneous

adipose tissue from non-lactating cows in response to plane of dietary energy. *J. Dairy Sci.* 92(E-suppl.):554.

Popular Press Article

1. **Ji, P.** Oxidative stress in transition dairy cows. 2014. Dairy Herd Management http://www.dairyherd.com/e-newsletters/dairy-daily/Miner-Institute-Oxidative-stress-in-transition-dairy-cows-247516791.html?utm_source=3126I1789801C0W&utm_medium=eNL&utm_campaign=Dairy+Herd+Network+Daily_20140227&utm_term=transition+cow&utm_content=Edit
2. **Ji, P.** Shall we have a hospital pen for lame cows? 2013. Progressive Dairyman (Issue 1)
3. **Ji, P.** Critical hours of calving management. 2013 Dairy Herd Network (April 05) http://www.dairyherd.com/dairy-resources/calf-heifer/Critical-hours-of-calving-management-201622921.html
4. **Ji, P.** Considering direct-fed microbial for your transition dairy cow. 2012. Progressive Dairyman (Issue 15)

Farm report articles of Miner Institute: http://www.whminer.org/dairy/farm-report.php

1. 2014/02 p2: Alumni corner: Oxidative stress in transition dairy cows
2. 2013/07 p6: Four-hour adlibitum feeding of group-housed calves
3. 2013/06 p4: A Comparison of Colostrum- with Plasma-derived Colostrum Replacer: a Preliminary Summary of 13 Studies
4. 2013/04 p3: Critical hours of calving management
5. 2013/02 p11: My own story about the dairy industry development in China
6. 2012/12 p9: Pain management on cautery dehorned calves
7. 2012/10 p2: Will Histidine be limiting in your lactation diet?
8. 2012/06 p3: Don't let routine practices and traditional concepts compromise your colostrum management
9. 2012/02 p7: Shall we have a "hospital" pen for lame cows?
10. 2012/01 p10: Are you considering direct-fed microbial for your transition cow?
11. 2011/12 p3: Controlled-energy diets for dry cows
12. 2011/11 p9: Insulin resistance during the transition period