

Assistant Researcher XU Tianle

College	College of Animal Science & Technology
Current Position	Assistant Researcher
Types of Tutor	Master Tutor
Language	Chinese/English
Education	2019.2 - 2019.6 Post-doc Charles University at Prague 2012.9 - 2018.6 Ph.D. Clinical Veterinary Medicine, Nanjing Agricultural University, China 2007-2012 B.S. Veterinary Medicine, Nanjing Agricultural University, China
Research Interests	Research in metabolic disorders and regulation of ruminants
Selected Publications	<p>1. T. Xu, N. Ma, Y. Wang, X. Shi, G. Chang, J. J Loor and X. Shen. Sodium butyrate supplementation alleviates adaptive response to inflammation and modulates fatty acid metabolism in lipopolysaccharide-stimulated bovine hepatocytes. <i>Journal of Agricultural and Food Chemistry</i>, 2018, 66:6281-6290.</p> <p>2. T. Xu, A. Alharthi, F. Batistel, A. Helmbrecht, C. Parys, E. Trevisi, X. Shen and J. J. Loor. Supply of Methionine during Late Gestation in Dairy Cows Influences Postnatal Hepatic Mammalian Target of Rapamycin Phosphorylation in Neonatal Liver. <i>Journal of Dairy Science</i>. 2018, 101:8476-8491.</p> <p>3. T. Xu, H. M. Seyfert, and X. Shen. Epigenetic mechanisms contribute to decrease stearoyl-CoA desaturase 1 expression in the liver of dairy cows after prolonged feeding of high-concentrate diet. <i>Journal of Dairy Science</i>, 2018, 101: 2506-2518.</p> <p>4. T. Xu, F. C. Cardoso, A. Pineda, E. Trevisi, X. Shen, F. Rosa, J. S. Osorio, and J. J. Loor. Grain challenge affects systemic and hepatic molecular biomarkers of inflammation, stress, and metabolic responses to a greater extent in Holstein</p>

	<p>than Jersey cows. <i>Journal of Dairy Science</i>, 2017, 100:9153–9162.</p> <p>5. T. Xu, X. Shen and H. M. Seyfert. Stearoyl-CoA desaturase 1 expression is downregulated in liver and udder during <i>E. coli</i> mastitis through enhanced expression of repressive C/EBP factors and reduced expression of the inducer SREBP1A. <i>BMC Molecular Biology</i>, 2016, 17:16.</p> <p>6. T. Xu, H. Tao, G. Chang, K. Zhang, L. Xu and X. Shen. Lipopolysaccharide derived from the rumen down-regulates stearoyl-CoA desaturase 1 expression and alters fatty acid composition in the liver of dairy cows fed a high-concentrate diet. <i>BMC Veterinary Research</i>, 2015, 11:52.</p> <p>7. G. Chang, T. Xu, B. Brand, W. Petzl, X. Shen, H. M. Seyfert. Three promoters with different tissue specificity and pathogen inducibility express the toll-like-receptor 2 (TLR2)-encoding gene in cattle. <i>Veterinary Immunology and Immunopathology</i>, 2015, 167:57-63. (Co-first author)</p> <p>8. M. Vailati-Riboni, T. Xu, B. Qadir, R. Bucktrout, C. Parys, J.J. Loor. In vitro methionine supplementation during lipopolysaccharide stimulation modulates immunometabolic gene network expression in isolated polymorphonuclear cells from lactating Holstein cows. <i>Journal of Dairy Science</i>, 2019, 102 In press.</p>
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