

## Professor WANG Hongrong

College	College of Animal Science & Technology
Current Position	Professor
Types of Tutor	Doctoral Tutor
Language	Chinese/English
Education	<p>1982—1986 B. Sc. Inner Mongolian College of Agriculture and Animal Husbandry, Inner Mongolia, China Major: Animal Science</p> <p>1995—1998 Ph.D. Department of Animal Science, Inner Mongolia Agricultural University, Inner Mongolia, China Major: Animal Nutrition and Feed Science Ph.D. dissertation: Limiting amino acids and the ideal amino acid pattern at the proximal duodenum of growing sheep. Supervisor: Prof. Lu Dexun</p>
Research Interests	<p>(1) Carbohydrates metabolism by microorganism in the rumen and relevant to rumen health of ruminants. To investigate carbohydrates metabolism by microorganism in the rumen and relevant to rumen health of dairy cattle and goats and to elucidate the relationship between microbial community composition and nutrient metabolism in the rumen and mechanisms of SARA induced high concentrate in the diet of dairy cows.</p> <p>(2) Functional Amino Acids Metabolism and Dairy Nutritional Genomics. Researches are focusing on Rusitech, In vitro cell incubation and molecular biological techniques are employed to reveal the functional amino acid (arginine and leucine) metabolism and their molecular pathways of regulation on milk protein synthesis in mammary gland of dairy cows.</p> <p>(3) Forage Resources Utilization in Ruminants. Researches mainly include efficient utilization of feed resources available and new resources including crop residuals to develop sustainable</p>

	<p>goats and sheep production through pretreatment, ensilage and nutrient balance supplementation. To elucidate the mechanism of the beneficial effect of plant extracts derived active compounds and develop novel feed additives to promote animal production.</p>
<p>Selected Publications</p>	<ol style="list-style-type: none"> <li>1. Wang H. R., Q. Chen, L. M. Chen, R. F. Ge, M. Z. Wang, L. H. Yu, J. Zhang. Effects of dietary physically effective neutral detergent fiber content on the feeding behavior, digestibility, and growth of 8- to 10-month-old Holstein replacement heifers. <i>Journal of Dairy Science</i>, 2017, 100 (2) : 1161-1169.</li> <li>2. Wang H. R., Pan X.H., Wang C., Wang M.Z., Yu L.H., Effects of different dietary concentrate to forage ratio and thiamine supplementation on the rumen fermentation and ruminal bacterial community in dairy cows. <i>Animal Production Science</i>, 2015, 55 (2) : 189-193</li> <li>3. Wang H. R. and Lu De Xun. A study on the optimal amino acid pattern at the proximal duodenum in growing sheep. <i>Asian-Australasian Journal of Animal Science</i>, 2002, 15 (1): 38-44 [30]</li> <li>4. Chen L, Shen Y, Wang C, Ding L, Zhao F, Wang M, Fu J and Wang H R*. <i>Megasphaera elsdenii</i> lactate degradation pattern shifts in rumen acidosis models. <i>Frontiers in Microbiology</i>, 2019</li> </ol>
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