

 **XUEJUN (STUART) QIU**

Range Cattle Research & Education Center
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Education:

Doctorate of Philosophy March 2001 The Ohio State University Columbus, Ohio Major: Animal Nutrition	Master of Science July 1993 Chinese Academy of Agricultural Sciences Beijing, China Major: Animal Nutrition	Bachelor of Science July 1989 Northeast Normal University Changchun, Jilin, China Major: Biological Sciences
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Experiences:

- 08/2004 – Present, **Postdoctoral Associate**, University of Florida Range Cattle REC, Ona
- Propose and conduct a serial of studies investigating effects of nutrition and management on stress index, immunological response, and reproductive physiology of beef cattle.
 - Perform laboratory analysis, data processing, statistical analysis, and prepare manuscripts for publication.
- 11/2001 – 07/2004, **Postdoctoral Fellow**, Southern Illinois University, Carbondale
- Lead, organized and executed all aspects of two research projects funded by Illinois Council for Food and Agricultural Research (C-FAR): 1) An Evaluation of the Safety of a Genetically Modified Corn: A Porcine Model; and 2) Determining the CLA Production Capacity of Ruminants.
 - Proposed and carried out a research project funded by Southern Illinois University Office of Research Development and Administration: Use of Biofuel By-products to Produce Alternative Agricultural Products.
 - Actively involved in other research projects at SIU as a co-investigator: 1) Production of conjugated linoleic acid (CLA) enhanced foods for prevention of human disease. 2) Elucidating the BioFresh™ mode of action for reducing somatic cell count in lactating dairy cows.
 - Detailed responsibilities include designing and carrying out animal, in vitro, and cultivation trials, conducting DNA extraction, PCR, electrophoresis, and other routine lab procedures, collecting and analyzing data, performing statistical analysis, writing grant proposals, and preparing research reports for publication, etc.
- 09/2001-10/2001, **System Specialist and Extension Assistant**, The Ohio State University, Columbus
- Implemented, revised, and maintained the web site Ohio Dairy Industry (<http://dairy.osu.edu>) for the Ohio State University Extension.
- 04/2001 – 08/2001, **Independent Artist and Agricultural Consultant**, Columbus, Ohio
- Designed the web site Ohio Dairy Industry for the Ohio State University Extension.
 - Helped Select Sires, American Jersey Cattle Association and other companies in developing business with China.
- 09/1995 – 03/2001, **Graduate Fellow, Teaching Assistant**, The Ohio State University, Columbus



- Designed and conducted the research project for Ph.D. dissertation: Factors Affecting the Production of Conjugated Linoleic Acid in Dairy Cows”.
 - Conducted the research Effects of Hybrid for Corn Silage and Dietary Level of Forage NDF on Nutrient Digestibilities and Performance of Lactating Cows”.
 - Actively participated in other research projects in OSU’s Dairy Nutrition Lab.
 - Worked as a Teaching Assistant for two animal science classes, taught lab sections, also responsible for tutorial and grading homework and exams.
- 07/1989-07/1990, **Teaching Assistant**, 08/1990-08/1993, **Instructor**, 09/1993-08/1995, **Assistant Professor**, Jilin Institute of Agricultural Science and Technology, Jilin, China
- Taught Animal Histology and Anatomy, Animal Biochemistry, Animal Nutrition and Feeding.
 - Served as student advisor.
 - Involved as a principal investigator in research project “Nutrient requirements of black sables”. Conducted several nitrogen and energy balance trials. Collaborated with other researchers in the research projects on swine, poultry, and beef cattle.

Administrative Services:

- 1993-1995, **Director**, Division of Animal Nutrition and Feeding, Department of Animal Science, Jilin Institute of Agricultural Science and Technology, Jilin, China
- 1992-1993, **Director**, Teaching Quality Surveillance and Evaluation Center, Jilin Institute of Agricultural Science and Technology, Jilin, China
- 1991- 1992, **Chairperson**, Graduate Students Society, Graduate School of Chinese Academy of Agricultural Sciences.

Grants & Awards:

- 2004, **Outstanding Postdoctoral Research Award**, Southern Illinois University College of Agriculture.
- 2003, **Use of by-products to produce alternative agricultural products**, Southern Illinois University Office of Research Development and Administration. \$14,300. Principal investigator.
- 2003, **Elucidating the BioFresh™ mode of action for reducing somatic cell count in lactating dairy cows**, Agrarian Marketing Corp. \$15,000. Co-investigator.
- 2002, **Production of conjugated linoleic acid (CLA) enhanced foods for prevention of human disease**, Illinois Office of the Attorney General. \$486,454. Co-investigator.
- 1995- 2001, **Special Kennedy Fellowship**, Department of Animal Science, The Ohio State University
- 1995, **Provincial Award of Science and Technology Development**, as a principal investigator in the research project “Nutrient Requirements of Black Sables”. Jilin, China.
- 1993, **Outstanding Graduate Student Scholarship**, Chinese Academy of Agricultural Sciences, Beijing, China



1988, **Outstanding Undergraduate Student Scholarship**, Northeast Normal University, Changchun, China

Computer Skills:

Diverse animal ration/management programs, NRC Computer Model Program for Predicting Nutrient Requirements of Dairy Cattle, SAS program, Microsoft Office Package, C++ programming, VB6 and database programming, Graphic and web design tools including Adobe Photoshop, Adobe ImageReady, HTML, MS Frontpage98, Macromedia Dreamweaver, Macromedia Fireworks, and Macromedia Flash.

Laboratory Equipments & Skills:

Atomic Absorption Spectrometry, Gas Chromatography, Spectrophotometer, DNA & RNA isolation, PCR, Electrophoresis, Electron Microscope, Kjehldal Nitrogen Determination System, Oxygen Bomb Calorimeter, Continuous Culture System, DAISY incubator, etc.

Professional Memberships:

American Dairy Science Association
American Society of Animal Science

Hobbies:

Painting and design (<http://studio.q-b-d.com/>), reading, writing, and sports (table tennis, soccer, basketball, volleyball, swimming, etc.)

Publications:

Refereed Research Papers:

- Qiu, X.**, J. D. Arthington, and R. F. Cooke. Effects of pre-weaning management on growth performance and stress response of transported beef steers. *J. Anim. Sci.* (In preparation)
- Qiu, X.**, C. Zhou, K. E. Griswold, G. A. Apgar, and K. Zhang. Preliminary evaluation on the feeding value of edible fungi treated forages: chemical composition and *in vitro* digestibility. *Anim. Feed Sci. Technol.* (In preparation)
- Zhou, C., **X. Qiu**, K. I. Tanaka, and S. Ohtani. Lipid synthesis of meat-type ducks as compared to chicken broilers. *Poult. Sci.* (In preparation)
- Zhou, C., **X. Qiu**, and S. Ohtani. Effects of dietary levels of metabolizable energy and protein on growth, carcass composition, and fatty acid synthesis of meat-type growing ducks. *Poult. Sci.* (In preparation)
- Qiu, X.**, K. E. Griswold, G. A. Apgar, D. W. Murdach, E. D. Frantz, D. L. Hastings, and B. N. Jacobson. 2005. Effects of dietary lipid source and level on biohydrogenation of unsaturated fatty acids and production of conjugated linoleic acid and trans vaccenic acid *in vitro*. *J. Dairy Sci.* (Submitted)
- Qiu, X.**, K. E. Griswold, G. A. Apgar, D. L. Hastings, B. N. Jacobson, E. D. Frantz, R. A. Robinson, and J. S. Ely. 2005. Short communication: Effects of corn silage and soybean oil on *in vitro* production of conjugated linoleic acid (CLA) and 18:1 fatty acids. *Anim. Feed Sci. Technol.* (Submitted)

- Beagle, J. M., G. A. Apgar, K. E. Griswold, K. L. Jones, J. S. Radcliffe, **X. Qiu**, and M. P. Martin. 2005. The digestive fate of the *gdhA* transgene in corn diets fed to weanling swine. *J. Anim. Sci.* (Under review)
- Qiu, X.**, G. A. Apgar, K. E. Griswold, J. M. Beagle, K. L. Jones, T. A. Guthrie, M. J. Iqbal, and D. A. Lightfoot. 2005. Digestive fate of a *gdhA* gene from a genetically modified corn in growing pigs. *J. Anim. Sci.* (Under review)
- Qiu, X.**, M. L. Eastridge, and J. L. Firkins. 2004. Effects of Dry Matter Intake, Addition of Buffer, and Source of Fat on Duodenal Flow and Concentration of Conjugated Linoleic Acid and *Trans*-11 C_{18:1} in Milk. *J. Dairy Sci.* 87: 4278-4286.
- Qiu, X.**, M. L. Eastridge, K. E. Griswold, and J. L. Firkins. 2004. Effects of Substrate, Passage Rate, and pH in Continuous Culture on Flows of Conjugated Linoleic Acid and *Trans* C_{18:1}. *J. Dairy Sci.* 87: 3473-3479
- Qiu, X.**, M. L. Eastridge, and Z. Wang. 2003. Effects of corn silage hybrid and dietary concentration of forage NDF on digestibility and performance by dairy cows. *J. Dairy Sci.* 86:3667-3674.
- Apgar, G. A., **X. Qiu**, K. E. Griswold, and J. Li. 2002. Effects of phytase supplementation to growing-finishing swine diets containing wheat middlings. *China Animal Husbandry & Veterinary Medicine.* 29(6):16-19.
- Wang, Z., M. L. Eastridge, and **X. Qiu**. 2001. Effects of forage neutral detergent fiber and yeast culture on performance of cows during early lactation. *J. Dairy Sci.* 84:204-212.
- Qiu, X.**, Y. Tong, F. Wang, K. Zhang, and J. Bi. 1995. Energy metabolism of caged sables during growing period. *Acta Zoonutrimenta Sinica.* 7 (1): 23-28.
- Zhang, K., Y. Tong, F. Wang, and **X. Qiu**. 1995. Formulation and production of pellet feed for growing sables. *Acta Zoonutrimenta Sinica.* 7 (2): 30-35.
- Qiu, X.** 1995. A discussion on teaching styles. *China Higher Agricultural Education.* 30-32

Non-refereed Research Reports:

- Qiu, X.**, M. L. Eastridge, J. L. Firkins. 2001. Factors affecting the production of conjugated linoleic acid in dairy cows. Pages 29-36 *in* Research and Reviews: Dairy 2001. Department of Animal Sciences, The Ohio State University, Columbus.
- Eastridge, M. L. and **X. Qiu**. 2001. Conjugated linoleic acid in milk from cows on pasture. Pages 37-40 *in* Research and Reviews: Dairy 2001. Department of Animal Sciences, The Ohio State University, Columbus.
- Eastridge, M. L. and **X. Qiu**. 2001. Effects of two sources of calcium soaps on performance of lactating cows. Pages 57-59 *in* Research and Reviews: Dairy 2001. Department of Animal Sciences, The Ohio State University, Columbus.
- Qiu, X.**, M. L. Eastridge, and Z. Wang. 1999. Effects of corn silage hybrid and level of forage NDF on ruminal fermentation, nutrient digestibility, duodenal fatty acid content, and performance of lactating cows. Pages 72-76 *in* Research and Reviews: Dairy 1999. Department of Animal Sciences, The Ohio State University, Columbus.
- Wang, Z., M. L. Eastridge, and **X. Qiu**. 2001. Effects of forage NDF and yeast culture on performance of periparturient cows. Pages 82-88 *in* Research and Reviews: Dairy 1999. Department of Animal Sciences, The Ohio State University, Columbus.

Abstracts:

- Qiu, X.**, G. A. Apgar, K. E. Griswold, J. M. Beagle, M. P. Martin, K. L. Jones, M. J. Iqbal, and D. A. Lightfoot. 2004. Digestive fate of a *gdhA* gene from a genetically modified corn fed to growing pigs. *J. Anim. Sci.* 82 (Suppl. 1)

- Qiu, X.**, K. E. Griswold, G. A. Apgar, D. W. Murdach, E. D. Frantz, D., D. L. Hastings, and B. N. Jacobson. 2004. Effects of source and level of dietary lipid on in vitro production of conjugated linoleic acid and trans vaccenic acid. *J. Anim. Sci.* 82 (Suppl. 1)
- Qiu, X.**, M. L. Eastridge, J. L. Firkins, K. E. Griswold, and G. A. Apgar. 2002. Effects of DMI, addition of buffer, and source of fat on duodenal flow and milk concentration of conjugated linoleic acid and *trans* C_{18:1} in dairy cows. *J. Dairy Sci.* 85 (Suppl. 1):313
- Qiu, X.**, M. L. Eastridge, K. E. Griswold, and J. L. Firkins. 2000. Effects of solid passage rate, pH, and level of linoleic acid on the production of *cis*-9, *trans*-11-octadecadienoic acid (CLA) in continuous culture. *J. Dairy Sci.* 83 (Suppl. 1):285.
- Qiu, X.**, M. L. Eastridge, and Z. Wang. 2000. Effects of corn silage hybrid and level of forage NDF on nutrient digestibility and duodenal fatty acid content of lactating cows. *J. Dairy Sci.* 83 (Suppl. 1):273.
- Qiu, X.**, M. L. Eastridge, and Z. Wang. 1999. Effects of corn silage hybrid and level of forage NDF on ruminal fermentation and performance of lactating cows. *J. Dairy Sci.* 82 (Suppl. 1):88.

References:

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