

# LAURA L. GREINER

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## EDUCATION:

**Postdoctoral Training, University of Iowa (U of IA), Iowa City, IA**  
Department of Study: **Microbiology**

**Doctor of Philosophy, Iowa State University (ISU), Ames, IA**  
Graduation: **December 2001**  
Major: **Animal Nutrition**    Emphasis: **Swine Nutrition and Immunology**

**Master of Science, Iowa State University (ISU), Ames, IA**  
Graduation: **May 1999 with Research Excellence Award**  
Major: **Animal Nutrition**    Emphasis: **Swine Nutrition and Immunology**

**Bachelor of Science, Iowa State University (ISU), Ames, IA**  
Graduation: **December 1996 with Academic Distinction**  
Major: **Animal Science**    Emphasis: **Marketing**

## PROFESSIONAL EXPERIENCE:

**Director of Research, Innovative Swine Solutions, Dr. Joe Connor, Carthage, IL**    October 2005 – Present

**Postdoctoral Fellowship, U of IA, Dr. Michael Apicella, Iowa City, IA**    January 2002 – December 2004  
*Projects*  
• Gene regulation of *Haemophilus influenzae* and *Neisseria gonorrhoeae* biofilms

**Graduate Research Assistant, ISU, Dr. Tim Stahly, Ames, IA**    January 1997 – December 2001  
*Dissertation Project*  
• Efficacy of antimicrobial peptide precursors as an antibiotic alternative in pigs  
*Thesis Project*  
• The effect of soy isoflavones on immune function and pig growth

### *Other Activities*

- U.S. Patent application: Isoflavone and saponin compositions and methods for enhancing body growth, muscle development, and immune functions
- Co-author of six multi-disciplinary grants

## PUBLICATIONS:

### Refereed Journal Articles

- Srichana, P., J.L. Usry, C.D. Knight, L. Greiner, and G.L. Allee. 2007. Lysine requirement of lactating primiparous sows. *J. An. Sci.* 84:Supplement 2, p. 180.
- Srichana, P., J.L. Usry, C.D. Knight, L. Greiner, and G.L. Allee. 2007. The use of crystalline amino acids in lactating primiparous sows diets. *J. An. Sci.* 84:Supplement 2, p. 182.
- Daines, D. A., M. Bothwell, J. Furrer, W. Unrath, K. Nelson, J. Jarisch, N. Melrose, L. Greiner, M. Apicella, and A. Smith. 2005. *Haemophilus influenzae* luxS mutants form a biofilm and have increased virulence. *Microb. Pathog.* 39: 87-96.
- Jurcisek, J., L. Greiner, H. Watanabe, A. Zaleski, M. A. Apicella, and L. Bakaletz. 2005. Role of sialic acid and complex carbohydrate biosynthesis in biofilm formation by nontypeable *Haemophilus influenzae* in the chinchilla middle ear. *Infect Immun.* 73:3210-3218.

- Greiner, L. L., J. L. Edwards, J. Shao, C. Rabinak, D. Entz, and M. A. Apicella. 2004. Biofilm Formation by *Neisseria gonorrhoeae*. *Infect. Immun.* 73:1964-1970.
- Greiner, L.L., H. Watanabe, N. J. Phillips, J. Shao, A. Morgan, A. Zaleski, B. W. Gibson and M. A. Apicella. 2004. Nontypeable *Haemophilus influenzae* strain 2019 produces a biofilm containing N-acetylneuraminic acid that may mimic sialylated O-linked glycans. *Infect. Immun.* 72:4249-4260.
- Greiner, L.L., T.S. Stahly, and T.J. Stabel. 2001. Effect of dietary soy daidzein on pig growth and viral replication during a viral challenge. *J. An. Sci.* 79:3113-3119.
- Greiner, L.L., T.S. Stahly, and T.J. Stabel. 2000. Effect of dietary soy genistein on pig growth and viral replication during a viral challenge. *J. An. Sci.* 79:1272-1279.
- Greiner, L.L., T.S. Stahly, and T.J. Stabel. 2000. Quantitative relationship of systemic virus concentration on growth and immune response in pigs. *J. An. Sci.* 78:2690-2695.
- Greiner, L.L., T.S. Stahly, and T.J. Stabel. 1999. Effects of dietary soy genistein on pig growth and immune response in virally challenged pigs. *J. An. Sci.* 77:Supplement 1, p. 46.
- Stahly, T.S., B.T. Kremer, and L.L. Greiner. 1998. Effect of dietary protein source (casein vs soy) on rate and efficiency of growth in pigs experiencing minimal and moderate exposure. *J. An. Sci.* 76:Supplement 1, p. 181.

### Swine Research Reports

- Greiner, L.L., T.S. Stahly, and T. Stanton. 2000. Evaluation of the antimicrobial activity of natural animal proteins/peptides in vitro. 2000 Iowa State Swine Research Report, pp. 67-71.
- Greiner, L.L., T.S. Stahly, and T.J. Stabel. 2000. Effect of dietary soy genistein on pig growth and viral replication during a viral challenge. 2000 Iowa State Swine Research Report, pp. 42-49.
- Greiner, L.L., T.S. Stahly, and T.J. Stabel. 1998. Quantitative effect of porcine reproductive and respiratory syndrome virus on pig growth and immune response. 1998 Iowa State Swine Research Report, pp. 51-54.
- Stahly, T.S., B.T. Kremer, and L.L. Greiner. 1998. Effect of protein source (casein vs soy) on growth in antigen exposed pigs. 1998 Iowa State Swine Research Report, pp. 16-18.

### ABSTRACTS:

- G.L. Allee, L. Greiner, J.L. Ursy and N. Williams. 2009. "The Use of Crystalline Amino Acids in Sow Lactation Diets", ASAS.
- L. Greiner, J. Soto, J. Connor, G.L. Allee, J.L. Usry, and Noel Williams. 2009. "The Evaluation of Feeding Lactating Sows on Grams of Lysine Compared to Percent of Lysine in the Diet", ASAS.
- Greiner, L. L., J. Patterson, G. Foxcroft, A. Cameron, T. Smith, A. Kummer, R. Schott, J. Connor, and C. Francisco. 2009. "The Effect of PG600 at Weaning on Sow Performance", International Conference On Pig Reproduction (ICPR).
- Greiner, L., K. Greiner, J. Connor, K. Erlandson, S. Wu, and J. Barban. 2009. "Suvaxyn PCV2 One Dose Field Efficacy comparison Carthage Studies 1 and 5", Leman 2008.
- Greiner, L., K. Greiner, J. Connor, and J. Soto. 2009. "Evaluation of Standard Deviation Associated with Piglet Weaning Weights Between 18 and 21 Days of Age", AASV.
- Greiner, L., J. Connor, J. Soto, G. L. Allee. 2009. "Inclusion of Fat in Sow Lactation Diets Containing Dry Distillers Grain with Solubles", ASAS.
- Greiner, L., J. Connor, X. Wang, and G. L. Allee. 2008 and 2009. "The Feeding of Dry Distillers Grain with Solubles to Lactating Sows", AASV 2009, ASAS 2008, J. Anim. Sci. Vol. 86, E-Suppl. 3, 97.
- L. L. Greiner, and M. A. Apicella. 2004. Incorporation of Sialic Acid into Nontypeable *Haemophilus influenzae* Biofilm. 104<sup>th</sup> American Society of Microbiology Meeting, New Orleans, LA.
- L. L. Greiner, H. Watanabe, N. J. Phillips, J. Shao, B. W. Gibson, A. Morgan, and M. A. Apicella. 2004. Nontypeable *Haemophilus influenzae* 2019 produces a biofilm containing sialic acid which may mimic mucin O-linked glycans. Tenth Annual Midwest Pathogenesis Meeting, Iowa City, IA.
- J. Jurecsek, L. Greiner, A. Zaleski, M. A. Apicella, J. Cowan, J. Shao, and L. O. Bakaletz. 2004. Role of sialic acid and carbohydrate biosynthesis in biofilm formation by Nontypeable *Haemophilus influenzae* in

the microenvironment of the chinchilla middle ear. Tenth Annual Midwest Pathogenesis Meeting, Iowa City, IA.

- M. A. Apicella, L. L. Greiner, and H. Watanabe. 2003. Regulation and Biosynthesis of the Biofilm of Nontypeable *Haemophilus influenzae*. 103<sup>rd</sup> American Society of Microbiology Meeting, Washington, D.C.
- Greiner, L.L., A. Zaleski, J. M. Cowan, and M. A. Apicella. 2002. The role of the lipooligosaccharide synthesis gene (*lsg*) locus in *Haemophilus influenzae* airway epithelial cell adherence. Ninth Annual Midwest Pathogenesis Meeting, Indianapolis, IN.
- Greiner, L.L., A. Zaleski, J. M. Cowan, and M. A. Apicella. 2002. The role of the lipooligosaccharide synthesis gene (*lsg*) locus in *Haemophilus influenzae* airway epithelial cell adherence. Microbiology Departmental Meeting, University of Iowa.

## Unpublished Articles

### Poster Sessions

- J. Connor, J. Patterson, A. Cameron, T. Smith, A. Kummer, R. Schott, L. Greiner, G. Foxcroft. Responses to Gonadotrophin Treatment in Contemporary Weaned Sows. Poster session presented at: International Exogenous Conference On Pig Production (ICPR).
- J. Patterson, A. Cameron, T. Smith, A. Kummer, R. Schott, L. Greiner, J. Connor, G. Foxcroft. The Effect of PG600 at Weaning on Weaned Primiparous Sow Performance. Poster session presented at: Banff Pork Seminar; 2009; University of Alberta, Canada.
- Emilie Schilling, Laura Greiner, James Lowe, Joseph Connor. Efficacy of Intensive Neonatal Piglet Care in Reducing the Prevalence of Umbilical Hernias and Joint Infections at Weaning. Poster session presented at: AASV; 2009 Mar 11; Dallas, TX.
- Connor J., Greiner K., Greiner L., Erlandson K., Wu S., Barban J. (Carthage Veterinary Service, Ltd., Carthage, IL, Iowa Select, Iowa Falls, IA, and Fort Dodge Animal Health, Fort Dodge, IA). Suvaxyn<sup>®</sup> PCV2 One Dose Field Efficacy Comparison Carthage Study I. Poster session presented at: Allen D. Leman Conference; 2008 Sep 20-23; Saint Paul, MN.

## PRESENTATIONS:

- Nineteenth Annual Swine Health and Production Conference (2009)  
"Go to a Cafeteria or Order in Restaurant? Which is Better for Gestating Sows?"  
"When Cotton Candy and Corn Dogs Just Don't Do It: Feeding the Lactating Sow"
- World Pork Exposition  
"Value of Swine Research in Commercial Facilities" (2009)
- American Association of Swine Veterinarians  
"Field Efficacy Comparison of Suvaxyn<sup>®</sup> PCV2 One Dose and Two Other Commercial PCV Vaccines: Carthage Trial Update" (2009) Connor, Joe, Kelly Greiner, Laura Greiner, Keith Erlandson, Stephen Wu, Joe Barban, Hsien-Jue Chu.

## PROFESSIONAL MEMBERSHIP:

- American Association of Swine Veterinarians
- American Society of Animal Science

## HONORS AND AWARDS:

- NIH Post-Doctoral Immunology Training Grant
- Iowa State Research Excellence (Master's Thesis)
- Miller Fellowship
- University Honors Program
- DowElanco Scholarship
- Wilkie Scholarship