

Curriculum Vitae
James F. Lowe, D.V.M., M.S.
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Education and Career Development:

- University of Illinois (2004) Masters of Science
- University of Illinois (2000) Executive Veterinary Program – Certificate in Swine Health Management
- University of Illinois (1994) Doctor of Veterinary Medicine
- University of Illinois (1992) Bachelor of Science in Veterinary Science
- University of Illinois (1991) Bachelor of Science in Agriculture

Professional Experience:

- Veterinarian/owner - Carthage Veterinary Service, Ltd. (1997 to 2003; 2007 to present)
- Visiting Clinical Instructor – University of Illinois, Department of Veterinary Clinical Medicine (2009-present)
- Director, Health and Production Services – The Maschhoffs, Inc. (2003 to 2007)
- Manager/owner – Professional Swine Management LLC (2000 to 2004)
- Associate Veterinarian - Vet Care Associates, P.C. (1994 – 1997)
- Graduate Research Assistant - University of Illinois, Department of Veterinary Biosciences - Research Focus: Reproductive endocrinology (1992-1994)
- Graduate Research Assistant - University of Illinois, Department of Animal Science - Research Focus: Effect of environmental stress on animal performance and physiology (1991-1992)

Professional Licenses:

- Licensed to practice veterinary medicine in Illinois, Iowa, Indiana, Missouri, and Oklahoma
- Licensed to prescribe controlled substances in Illinois, Oklahoma, and by the U.S. Drug Enforcement Administration

Professional Organization Membership and Recognitions:

- Conference of Research Workers and Animal Disease (CRWAD) (2008-present)
- North American PRRSV Eradication Task Force, American Association of Swine Veterinarians (2006-present)
- USDA Coordinated Agricultural Project (CAP), PRRS CAP 2 External Advisory Committee (2006-present)
- Board of Directors (2002-2008) American Association of Swine Veterinarians

- Allen D Leman Science in Practice Award (2007) – University of Minnesota and Pfizer Animal Health
- USDA Coordinated Agricultural Project (CAP), PRRS renewal Steering Committee (2006)
- Laboratory Committee, Illinois State Veterinary Medical Association (2004)
- American Association of Swine Veterinarians
- American Veterinary Medical Association
- Illinois State Veterinary Medical Association

Research Interests:

- Pathogen
- Host-pathogen interactions and effects of management strategies on the evolution of pathogen fitness and transmission
- Biological changes from environmental stress in swine: Effect on production in commercial swine farms

Peer Reviewed Publications:

- J. Patterson, A. Wellen, M. Hahn, A. Pasternak, J. Lowe, S. DeHass, D. Kraus, N. Williams, and G. Foxcroft
Responses to delayed estrus after weaning in sows using oral progestagen treatment. *J Anim Sci.*, 2008 : jas.2007-0440v1
- Lowe, James F, Federico A. Zuckermann, Lawrence D. Firkins, William M. Schnitzlein, Tony L. Goldberg; Immunological and clinical consequences of exposure to wild type or attenuated porcine reproductive and respiratory syndrome virus in swine under field conditions. *J of the American Veterinary Medical Association*, 2006 Apr 1;228(7):1082-8.
- Lowe, JF, R Husmann, LD Firkins, FA Zuckermann, TL Goldberg; Correlation of cellular immunity to Porcine Reproductive and Respiratory Syndrome Virus and clinical disease during outbreaks of PRRS in commercial swine herds. *J of the American Veterinary Medical Association*, 2005 May 15;226(10):1707-11.
- Goldberg TL, JF Lowe, SM Milburn, and LD Firkins. Quasispecies variation of porcine reproductive and respiratory syndrome virus during natural infection. *Virology*. Dec 20 2003;317(2):197-207
- Lowe, JF, L Firkins, M. Banerjee, T. Goldberg; A novel technique for the collection of ante mortem tonsil biopsies from alert swine. *J of Swine Health and Production*, 2003, 11(5):229-232.
- S. L. Rodriguez-Zas, B. R. Southey, R. V. Knox, J. F. Connor, J. F. Lowe and B. J. Roskamp;
Bioeconomic evaluation of sow longevity and profitability1. *J. Anim. Sci.*, 2003; 81:2915-2922.

Publications:

- Johnson, E and J Lowe, When is the right time to vaccinate against *Erysipelas rhusiopathiae* in growing pigs?, *J of Swine Health and Production*, 2005, 13(2): 114-115.

- Lowe, JF and JF Connor, Options for Parity Segregation, *National Hog Farmer, Blue Print Series*, 2004, 28:24-26.
- Lowe, JF, Collection of ante mortem tonsil biopsies from unanaesthetized swine, *Suis*, April 15, 2004, 5:32-34.

Abstracts:

- Johnson E and Lowe J *Economic losses due to proliferative hemorrhagic enteropathy*, 20th IPVS, Durban S Africa; 2008 Vol II:296.
- Lowe J and Johnson E *Elimination of Actinobacillus pleuropneumoniae from a breeding herd without lowering production output*, 20th IPVS, Durban S Africa; 2008 Vol I:214.
- Lowe, JF, FA Zuckerman, LD Firkins and TL Goldberg, *PRRSV control in large-scale commercial settings: incorporating scientific information into herd-level management decisions*. 2005 International PRRSV Symposium, St Louis, Missouri, December 2005.
- Lowe, JF, FA Zuckerman, LD Firkins and TL Goldberg *Immunological and reproductive outcomes of controlled exposure of sows to either wild type porcine reproductive and respiratory syndrome virus or modified live vaccine in a commercial swine herd*, Conference for Research Workers in Animal Disease, November 2004.
- Lowe, J, L Firkins, F. Zuckerman, and T. Goldberg *Immune response and reproductive performance in swine following known infection with PRRS virus commercial herds*. Conference for Research Workers in Animal Disease, November 2003.
- Lowe, J, L Firkins, F. Zuckerman, and T. Goldberg *Immunity and performance of swine infected with PRRS virus in commercial herds*. Conference for Research Workers in Animal Disease, November 2002.

Unpublished Articles:

Poster Sessions

- Schilling, Emilie, Laura Greiner, James F. Lowe, Joseph F. Connor. Efficacy of Intensive Neonatal Piglet Care on Umbilical Hernias and Joint Infections; 2009 Mar 11; Dallas, TX.

Competitive Grants:

- Goldberg, T, F. Zuckermann, L. Firkins and J. Lowe; *Influences of immunity and viral genetic diversification on the reproductive performance of swine infected with PRRS virus*. USDA/CSREES/NRI 2003

Proceedings:

- Schilling, E, Greiner, L, Lowe, JF and Connor, JF; *Efficacy of Intensive Neonatal Piglet Care in Reducing the Prevalence of Umbilical Hernias and Joint Infections at Weaning*; AASV Annual Meeting; 2009
- Lowe, JF; *More sources or more time: Making decisions on pig flow to optimize pig health*; Proceedings AASV Annual Meeting; 2008.

- Lowe, JF; *Prospects for PRRSV vaccine: Reality or pipe dream?*; Proceedings AASV Annual Meeting; 2008.
- Lowe, JF; *Recent experiences with swine influenza in a large production system*; Proceedings AASV Annual Meeting; 2008.
- Lowe, JF; *Practice Tips*; Proceedings AASV Annual Meeting; 2008.
- Lowe, JF, EE Johnson; *Alternative flow strategies in sow farms*; Proceedings Lemman Swine Conference 2007, pp 119-126.
- Lowe, JF; *Production management for high ADG*; Proceedings AASV Annual Meeting Pre-conference Session: Achieving 2 pound Average daily gain; 2007
- Lowe, JF; *When "backseat" diseases drive the bus*; Proceedings AASV Annual Meeting Pre-conference Session: Backseat Respiratory Diseases; 2007.
- Lowe, JF; *The future of Swine Veterinary Medicine: A practitioner's perspective*; Proceedings of the AASV Annual Meeting 2006, pp 261-266.
- Lowe, JF, BF Wolter, EE Johnson; *Communicating real time data to influence production and health*; Proceedings AASV Annual Meeting Pre-conference Session: Grow Finish Records: Taking a look at real time monitoring; 2006
- Lowe, JF; *Considerations in managing type A influenza virus in swine populations*; Proceedings Lemman Swine Conference 2005, pp 99-101.
- Lowe, JF, BF Wolter, B Peterson, C Bertelson, EE Johnson and R Bowman; *What we have learned about grow-finish performance: Understanding the role of management in optimizing performance of growing pigs*, Proceedings AASV Annual Meeting 2005, pp 447-56
- Walk, S, J Lowe, B Wolter, E Johnson, W Ohare, L Wellen; *Effects of synthetic progestin (altrenogest) administration to primiparous female swine with short or long lactation length on measures of subsequent reproductive performance*, Proceedings AASV Annual Meeting 2005, pp 21-22
- Wellen, L R Bowman, E Johnson, B Wolter, J Lowe, S Walk; *Effect of antibiotic administration in pigs after weaning in the presence of concurrent nutritional and environmental stressors*, Proceedings AASV Annual Meeting 2005, pp 19-20
- Lowe, JF; *Controlling PRRS in Commercial Farms – "What Do We Know That's New?"*; Proceedings 2005 North American Veterinary Conference
- Lowe, JF; *Parity Segregation: How to Make It Work*, Proceedings 2005 North American Veterinary Conference
- Lowe, JF; *Diagnostic Applications of PCR Technology – A Practice Perspective*, Proceedings, Iowa State University Swine Disease Conference 2004.
- Lowe, JF, BJ Payne, A Haag, and BF Wolter; *Characterization of and risk factors for mortality in grow finish pigs 10 to 20 weeks post weaning*; Proceedings of the AASV Annual Meeting 2004; pp 525-526.
- Haag A, BJ Payne, JF Lowe, BF Wolter, and DM Webel; *Impact of diet complexity on growth performance and morbidity of pigs after weaning*; Proceedings of the AASV Annual Meeting 2004; pp 53-58.

- Payne, BJ, A Haag, JF Lowe, and BF Wolter *Characterization of mortality in pigs 10 to 20 weeks post-weaning in a large production company*; Proceedings of the AASV Annual Meeting 2004; p89.
- Johnson, EE and JF Lowe; *Evaluation of ultrasound for the detection of retained pigs in postpartum sows*; Proceedings of the AASV Annual Meeting 2003; pp 59-60.
- Lowe, JF; *Determining the Value of Weaned Pigs*; Proceedings of the AASV Annual Meeting 2000.
- Lowe, JF; *Pig Flow Dynamics in Wean to Finish Systems*; Proceedings of the AASV Annual Meeting 2000.

Educational Presentations and Programs:

- Presenter to the 2008 18th Annual Swine Conference "Decreasing Culls, Deads, and Lites"
- Presenter to the 2007 Lemman Swine Conference "Alternative Flow Strategies for Sow Farms "
- Presenter to the 13th Discover Conference on Food Animal Agriculture: Sow Productive Lifetime "Managing individuals in large populations to increase lifetime productivity"
- Presenter to the 2007 Focus on the Future Conference (Saskatoon, SK) "Twelve Born Alive: Its not all hugs and kisses"
- Presenter to the 2007 Focus on the Future Conference (Saskatoon, SK) "Our Vision of the Future: It includes pork production and here's why"
- Presenter to the 2007 AASV Annual Meeting "When "backseat" diseases drive the bus"
- Presenter to the 2007 AASV Annual Meeting "Production Management for High ADG"
- Presenter to the 2006 Indiana Swine Veterinarian Association Meeting "Treating Individual Pigs to achieve success"
- Presenter to the 2006 AASV Annual Meeting "Challenges and changes in the swine industry: A practitioner's perspective"
- Presenter to the 2006 AASV Annual Meeting "Communicating real time data to influence production and health"
- Presenter to the 2005 International PRRS Symposium "PRRSV control in large-scale commercial settings: incorporating scientific information into herd-level management decisions."
- Presenter to the 2005 Lemman Swine Conference "Considerations in managing type A influenza virus in swine populations"
- Presenter to the University of Illinois – Swine Extension Program – 2005, "What we don't know about swine influenza"
- Presenter to Pfizer Animal Health Draxxin® Launch Meeting, San Francisco, CA, 2005 "Dealing with Sick Pigs in the Real World".
- Presenter to the AASV 2005, "What we have learned about grow- finish performance"
- Presenter to the North American Veterinary Conference 2005, "Controlling PRRS in Commercial Farms – What Do We Know That's New?"

- Presenter to the North American Veterinary Conference 2005, "Parity Segregation: How to Make It Work"
- Presenter to CRWAD 2004, "Immunological and reproductive outcomes of controlled exposure of sows to either wild type porcine reproductive and respiratory syndrome virus or modified live vaccine in a commercial swine herd"
- Presenter to the Swine Disease Conference, Iowa State University 2004, "Diagnostic Applications of PCR Technology – A Practice Perspective"
- Presenter to the Allen D. Lemman Conference, 2004, "How we market our pigs successfully"
- Presenter to the 14th Annual Swine Production Conference, Carthage Veterinary Service, 2004 - "The Next Mixing Pot: SIV and Your Pigs".
- Presenter to the 14th Annual Swine Production Conference, Carthage Veterinary Service, 2004 - "Managing Finishing Barns: SOPs that produce".
- Presenter to the AASV 2004, "Characterization of and risk factors for mortality in grow finish pigs"
- Presenter to the Fall Conference for Veterinarians, University of Illinois 2003 – "What we know about PRRS control in Commercial Swine Farms"
- Presenter to the Illinois Swine Health and Management Conference, University of Illinois 2003 – "The Changing Face of Swine Influenza: Practical Diagnostic and Management Strategies"
- Presenter to CRWAD 2003, "Immune response and reproductive performance in swine following known infection with PRRS virus commercial herds"
- Presenter to the AASV 2003, "Presenting Financial Information to Clients"
- Presenter to CRWAD 2002, "Immunity and performance of swine infected with PRRS virus in commercial herds"
- Presenter to the Allen D. Lemman Conference, 2000, "Using PigCHAMP to Make Money"
- Presenter to the AASP, 2000, "Determining the Value of Weaned Pigs"
- Presenter to the AASP, 2000, "Pig Flow Dynamics in Wean to Finish Systems"

Teaching Experience:

- Advanced Swine Rotation at University of Illinois College of Veterinary Medicine - 2001 to 2006, 2008 - Coordinator at Carthage Veterinary Service/The Maschhoffs, Inc
- Senior Swine Rotation at University of Illinois College of Veterinary Medicine 1995 to 2006, 2008 – Host, lectures and farm visits
- Special projects – Casey Davis: *Systematically managing sow body condition in commercial sow farm*, 2006; Seth Krantz: *Understanding viral and bacterial disease transmission patterns in wean to finish pigs*, 2006; Clayton Johnson: *Efficacy of two modern farrowing management strategies based on temperature loss, passive transfer, and piglet performance*, 2005; Jess Wadell: *Understanding hygiene: assessing and improving hygiene techniques used in production systems*, 2005; Stacey Walk: *Effect of altrenogest (Matrix®) administration post weaning to*

primiparous sows with short or long lactation length, on duration of estrous and subsequent reproductive performance, 2004; Lynnette Wellen: Effect of administering antibiotics to pigs after weaning in the presence of practical nutrition and environment stressors. 2004; Brian Payne: Characterization of mortality in pigs 10 to 20 weeks post-weaning in a large production company , 2003; Angie Haag: Impact of diet complexity on growth performance and morbidity of pigs after weaning, 2003; Erin Johnson: Use of ultrasound to detect retained fetuses in farrowing sows. 2002; Stacey Walk: Use of Dexamethzone at birth to improve piglet survival, 2002