

**TOM J. BAAS**  
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Iowa State University

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**CURRENT POSITION**

Professor – Department of Animal Science, Iowa State University  
A-base: 50% Teaching, 25% Extension, 25% Research  
Graduate Faculty in Animal Breeding and Genetics, Animal Science

**PRIMARY AREAS OF INTEREST AND EXPERTISE**

- Evaluation of intramuscular fat in the live animal
- Real-time ultrasound technology and training
- Meat quality evaluation and improvement
- Design of breeding programs and mating systems

**EDUCATION**

- Ph.D. 1990 Iowa State University Major: Animal Breeding Minor: Statistics
- M.S. 1989 Iowa State University Major: Animal Breeding
- B.S. 1972 Iowa State University Major: Animal Science

**PROFESSIONAL EXPERIENCE**

<u>Employer</u>	<u>Position</u>	<u>Nature of Position</u>	<u>Dates</u>
Iowa State University	Professor	Teaching/Res./Ext.	2008-present
Iowa State University	Associate Professor	Teaching/Res./Ext.	2005-2008
Iowa State University	Associate Professor	Research/Extension	2003-2005
Iowa State University	Assistant Professor	Research/Extension	1994-2003
United Duroc Swine Reg.	Executive Secretary	Administration	1992-1994
University of Tennessee	Assistant Professor	Research/Teaching	1990-1992
Iowa State University	Adjunct Instructor	Teaching/Advising	1986-1990
Baas Farm Center	Owner/Operator	Self-employed	1983-1986
Swine Seedstock Producer	Owner/Operator	Self-employed	1976-1983
United Duroc Swine Reg.	Associate Editor	Publication/Public Rel.	1974-1976
United Duroc Swine Reg.	Field Representative	Field Calls/Public Rel.	1972-1974

**PROFESSIONAL ASSOCIATIONS**

American Society of Animal Science  
Gamma Sigma Delta  
Phi Kappa Phi

**AWARDS AND HONORS**

Spirit Award, ISU Block & Bridle Club (2015)  
American Society of Animal Science, Midwest Section National Pork Board Award for Innovation in Education (2013)  
National Barrow Show Distinguished Service Award, Hormel Foods and National Association of Swine Records (2012)  
Iowa Pork Producers Association Honorary Master Pork Producer Award (2011)

American Society of Animal Science, Midwest Section National Pork Board Award for Innovation in Research (2<sup>nd</sup> author on abstract with graduate student Nick Berry) (2006)  
Gamma Sigma Delta Extension Award of Merit (2006)  
TEAM Award, ISU College of Agriculture (1999)  
University Outstanding Academic Advisor Award, ISU Student Alumni Association (1988)  
College of Agriculture Outstanding Club Advisor, ISU Ag Council (1988)

### **INDUSTRY SERVICE**

Iowa Farm Bureau Swine Advisory Board  
Iowa Pork Producers Association Master Pork Producer Award Committee  
Iowa Pork Producers Association Election Committee  
Iowa Purebred Swine Council – ISU Liaison  
Iowa State Fair 4-H Derby Superintendent  
Iowa Swine Testing Station Board of Directors, Secretary-Treasurer  
Minnesota Spring Barrow Show Board of Directors  
National Swine Improvement Federation President  
National Swine Improvement Federation Program Chairman  
National Swine Improvement Federation Certification Committee Chairman  
National Pork Board Production & Financial Standards Oversight Committee  
National Pork Board Swine Educators Advisory Committee  
National Pork Producers Council International Symposium Task Force  
National Live Stock & Meat Board Pork Industry Group Director  
National Live Stock & Meat Board Research Committee  
National Swine Registry Genetic Advisory Committee  
State 4-H Swine Committee  
Story County Fair Derby Coordinator  
USPCE Swine Science Online Steering Committee  
USPCE Swine Science Online Curriculum Development Committee

### **TEACHING ASSIGNMENTS**

AnS 280X -- Swine Science Online (2 cr.) – Spring 2015 (17 students)  
AnS 280X -- Swine Science Online (2 cr.) – Fall 2014 (16 students)  
AnS 495 – Ag Travel Course-Den.,Swed.,Fin. (3 cr.) – Spring/Summer 2014 (21 students)  
AnS 225 -- Swine Science (3 cr.) – Spring 2014 (106 students)  
AnS 480C -- Pork Industry Fellows (1 cr.) – Spring 2014 (16 students)  
AnS 280X -- Swine Science Online (2 cr.) – Spring 2014 (21 students)  
AnS 495 – Ag Travel Course Prep (1 cr.) – Spring 2014 (21 students)  
AnS 225 -- Swine Science (3 cr.) – Fall 2013 (137 students)  
AnS 480C -- Pork Industry Fellows (1 cr.) – Fall 2013 (21 students)  
AnS 280X -- Swine Science Online (2 cr.) – Fall 2013 (20 students)  
AnS 225 -- Swine Science (3 cr.) – Spring 2013 (106 students)  
AnS 480C -- Pork Industry Fellows (1 cr.) – Spring 2013 (20 students)  
AnS 280X -- Swine Science Online (2 cr.) – Spring 2013 (20 students)  
AnS 225 -- Swine Science (3 cr.) – Fall 2012 (125 students)  
AnS 480C -- Pork Industry Fellows (1 cr.) – Fall 2012 (12 students)  
AnS 280X -- Swine Science Online (2 cr.) – Spring 2012 (10 students)  
AnS 225 -- Swine Science (3 cr.) – Spring 2012 (109 students)  
AnS 480C -- Pork Industry Fellows (1 cr.) – Spring 2012 (20 students)  
AnS 225 – Swine Science (3 cr.) – Fall 2011 (104 students)  
AnS 480C – Pork Industry Fellows (1 cr.) – Fall 2011 (23 students)  
AnS 280X -- Swine Science Online (2 cr.) – Fall 2011 (10 students, on-line)  
AnS 225 – Swine Science (3 cr.) – Spring 2011 (104 students)  
AnS 480C – Pork Industry Fellows (1 cr.) – Spring 2011 (23 students)

AnS 225 – Swine Science (3 cr.) – Fall 2010 (102 students)  
 AnS 280X – Basic Swine Science (2 cr.) – Fall 2010 (11 students, on-line)  
 AnS 480C – Pork Industry Fellows (1 cr.) – Fall 2010 (12 students)  
 AnS 225 – Swine Science (3 cr.) – Spring 2010 (104 students)  
 AnS 480C – Pork Industry Fellows (1 cr.) – Spring 2010 (18 students)  
 AnS 225 – Swine Science (3 cr.) – Fall 2009 (108 students)  
 AnS 480C – Pork Industry Fellows (1 cr.) – Fall 2009 (20 students)  
 AnS 225 – Swine Science (3 cr.) – Spring 2009 (99 students)  
 AnS 480C – Pork Industry Fellows (1 cr.) – Spring 2009 (23 students)  
 AnS 225 – Swine Science (3 cr.) – Fall 2008 (105 students)  
 AnS 480C – Pork Industry Fellows (1 cr.) – Fall 2008 (7 students)  
 AnS 225 – Swine Science (3 cr.) – Spring 2008 (107 students)  
 AnS 480C – Pork Industry Fellows (1 cr.) – Spring 2008 (12 students)  
 AnS 225 – Swine Science (3 cr.) – Fall 2007 (93 students)  
 AnS 480C – Pork Industry Fellows (1 cr.) – Fall 2007 (15 students)  
 AnS 225 – Swine Science (3 cr.) – Spring 2007 (102 students)  
 AnS 480C – Pork Industry Fellows (1 cr.) – Spring 2007 (14 students)  
 AnS 225 – Swine Science (3 cr.) – Fall 2006 (51 students)  
 AnS 480C – Pork Industry Fellows (1 cr.) – Fall 2006 (8 students)  
 AnS 653A – Applied Swine & Poultry Breeding (2 cr.) – Fall 2006 (5 students)  
 AnS 225 – Swine Science (3 cr.) – Spring 2006 (59 students)  
 AnS 480C – Pork Industry Fellows (1 cr.) – Spring 2006 (5 students)  
 AnS 225 – Swine Science (3 cr.) – Fall 2005 (47 students)  
 AnS 305 – Livestock Evaluation (3 cr.) – Fall 2004 (26 students)  
 AnS 653A – Applied Animal breeding Strategies (2 cr.) – Fall 2004 (10 students)  
 AnS 305 – Livestock Evaluation (3 cr.) – Fall 2003 (36 students)  
 AnS 346X – Principles of Ultrasound (3 cr.) – Spring 2003 (16 students) (team taught with Dr. Gene Rouse)  
 AnS 305 – Livestock Evaluation (3 cr.) – Fall 2002 (20 students) (team taught with Dr. Brad Skaar)

## REFEREED JOURNAL PUBLICATIONS

- Kim, E. S. R. Ros-Freixedes, R. N. Pena, **T. J. Baas**, J. Estany, and M. F. Rothschild. 2015. Identification of signatures of selection for intramuscular fat and backfat thickness in two Duroc populations. (*Journal of Animal Science* – accepted).
- Testroet, E. D., C. L. Yoder, A. Testroet, C. Reynolds, M. R. O’Neil, S. Lei, D. C. Beitz, and **T. J. Baas**. 2015. Relationship of fat quality and meat quality traits of fresh pork. (*Journal of Animal Science* – in review).
- Yoder, C. L., V. M. Duttlinger, and **T. J. Baas**. 2015. Estimates of genetic parameters associated with lactation feed intake and growth and composition traits measured during a performance test. *J. Anim. Breed. Genet.* 132:247-255.
- Yoder, C. L., C. R. Schwab, J. S. Fix, V. M. Duttlinger, and **T. J. Baas**. 2014. Estimates of genetic parameters associated with lactation feed intake and reproductive performance in purebred and F1 sows. *J. Anim. Breed. Genet.* 131:294-304.
- Yoder, C. L., C. R. Schwab, J. S. Fix, K. J. Stalder, P. M. Dixon, V. M. Duttlinger, and **T. J. Baas**. 2013. Estimation of deviations from predicted lactation feed intake and the effect on reproductive performance. *Livest. Sci.* 154, 184-192.

- Yoder, C. L., C. R. Schwab, J. S. Fix, V. M. Duttlinger, and **T.J. Baas**. 2012. Lactation feed intake in purebred and F1 sows and its relationship with reproductive performance. *Livest. Sci.* 150, 187-199.
- Knauer, M., K. Stalder, **T. Baas**, C. Johnson, and L. Karriker. 2012. Physical conditions of cull sows associated with on-farm production records. *Open Journal of Veterinary Medicine*. <http://www.scirp.org/journal/ojvm/>
- Berry, N., A. Johnson, S. Lonergan, **T. Baas**, J. Hill, C. Schultz-Kaster, J. Matthews, L. Karriker, and K. Stalder. 2010. Mobiler Treibgang im vergleich mit traditioneller rampe. *Fleischwirtschaft*. July. pp 119-122.
- Schwab, C. R., **T. J. Baas**, and K. J. Stalder. 2010. Results from six generations of selection for intramuscular fat in Duroc swine using real-time ultrasound. II. Genetic parameters and trends. *J. Anim. Sci.* 88: 69-79.
- Berry, N., A. Johnson, S. M. Lonergan, **T. Baas**, J. Hill, C. Schultz-Kaster, J. Matthews, L. Karriker and K. Stalder. 2010. Loading gantry versus traditional chute: Effect on fresh pork loin quality attributes when properly loaded. *Mobiler Treibgang gegenüber traditioneller rampe*. *Fleischwirtschaft*. June. pp 98-101.
- Knauer, M., K. J. Stalder, T. Serenius, **T. J. Baas**, P. J. Berger, L. Karriker, R. N. Goodwin, R. K. Johnson, J. W. Mabry, R. K. Miller, O. W. Robison, and M. D. Tokach. 2010. Factors associated with sow stayability in 6 genotypes. *J. Anim. Sci.* 88:3486-3492.
- Berry, N., A. Johnson, S. Longergan, **T. Baas**, J. Hill, C. Schultz-Kaster, J. Matthews, L. Karriker, and K. Stalder. 2010. Loading gantry versus traditional chute: Effect on fresh pork loin quality attributes when properly loaded. *Fleischwirtschaft International* 1:60-63.
- Berry, N., A. Johnson, S. Lonergan, **T. Baas**, J. Hill, C. Schultz-Kaster, J. Matthews, L. Karriker, and K. Stalder. 2010. Loading gantry versus traditional chute: Effect on fresh pork loin quality attributes with challenges at loading. *Fleischwirtschaft International* 5:69-71.
- Schwab, C. R., **T. J. Baas**, K. J. Stalder, and D. Nettleton. 2009. Results from six generations of selection for intramuscular fat in Duroc swine using real-time ultrasound. I. Direct and correlated phenotypic responses to selection. *J. Anim. Sci.* 87: 2774-2780.
- Schwab, C. R., B. E. Mote, Z. Du, R. Amoako, M. F. Rothschild, and **T. J. Baas**. 2009. An evaluation of four candidate genes for use in selection programs aimed at increased intramuscular fat in Duroc swine. *J. Anim. Breed. and Genet.* 126:228-236.
- Burkett, J. L., K. J. Stalder, W. J. Powers, J. L. Pierce, **T. J. Baas**, T. B. Bailey, B. L. Shafer, and K. Bregendahl. 2009. Effect of inorganic and organic trace mineral supplementation on the performance, carcass characteristics, and fecal mineral excretion of phase-fed, grow-finish swine. *Aust. J. Anim. Sci.* 22:1279-1287.
- Morriscal, J. R., M. S. Honeyman, J. D. Harmon, **T. J. Baas**, and C. R. Schwab. 2008. Evaluating finishing pig growth during summer and winter in bedded hoop and confinement buildings. *J. App. Eng. Agri.* 24(1):79-85.

- Smith, A. L., K. J. Stalder, T. V. Serenius, **T. J. Baas**, and J. W. Mabry. 2008. Effect of weaning age on nursery pig and sow reproductive performance. *J. Swine Hlth. Prod.* 16(3):131-137.
- Schwab, C., **T. J. Baas**, K. J. Stalder, and J. W. Mabry. 2007. Deposition rates and accretion patterns of intramuscular fat, loin muscle area, and backfat of Duroc pigs sired by boars from two time periods. *J. Anim. Sci.* 85:1540-1546.
- Smith, A. L., K. J. Stalder, T. V. Serenius, **T. J. Baas**, and J. W. Mabry. 2007. Effect of piglet birth weight and weaning weight on nursery off-test weight. *J. Swine Hlth Prod.* 15:213-218.
- Knauer, M., L. A. Karriker, **T. J. Baas**, C. Johnson, and K. J. Stalder. 2007. An evaluation of the accuracy of farm reported data used to make health decisions about sows. *J. Am. Vet. Med. Assoc.* 231:433-436.
- Knauer, M., L. A. Karriker, **T. J. Baas**, J. W. Mabry, and K. J. Stalder. 2007. A descriptive survey of lesions from cull sows harvested at two Midwestern U.S. facilities. *J. Prev. Vet. Med.* 82:198-212.
- Lampe, J. F., **T. J. Baas**, and J. W. Mabry. 2006. Comparison of grain sources (yellow corn, white corn, and barley) for swine diets and their effect on meat and fat quality traits. *J. Anim. Sci.* 84:1022-1029.
- Schwab, C., **T. J. Baas**, K. J. Stalder, and J. W. Mabry. 2006. Effect of long-term selection for increased leanness on meat and eating quality traits in Duroc swine. *J. Anim. Sci.* 84:1577-1583.
- Serenius, T., K. J. Stalder, **T. J. Baas**, J. W. Mabry, R. N. Goodwin, R. K. Johnson, O. W. Robinson, M. Tokach, and R. K. Miller. 2006. National Pork Producers Council Maternal Line National Genetic Evaluation Program: A comparison of sow longevity and trait associations with sow longevity. *J. Anim. Sci.* 84: 2590-2595.
- Newcom, D. W., **T. J. Baas**, C. R. Schwab, and K. J. Stalder. 2005. Genetic and phenotypic relationships between individual subcutaneous backfat layers and longissimus intramuscular fat percentage in Duroc swine. *J. Anim. Sci.* 83:316-323.
- Newcom, D. W., **T. J. Baas**, K. J. Stalder, and C. R. Schwab. 2005. Comparison of three models to estimate breeding values for loin intramuscular fat percentage in Duroc swine. *J. Anim. Sci.* 83:750-756.
- Moeller, S. J., R. N. Goodwin, R. K. Johnson, J. W. Mabry, **T. J. Baas**, and O. W. Robison. 2004. The National Pork Producers Council Maternal Line National Genetic Evaluation Program: A comparison of six maternal genetic lines for female productivity measures over four parities. *J. Anim. Sci.* 82:41-53.
- Newcom, D. W., K. J. Stalder, **T. J. Baas**, R. N. Goodwin, F. C. Parrish, and B. R. Wiegand. 2004. Breed differences and genetic parameters of myoglobin concentration in porcine longissimus muscle. *J. Anim. Sci.* 82:2264-2268.
- Houser, T. A., J. G. Sebranek, B. J. Thacker, **T. J. Baas**, D. Nilubol, E. L. Thacker, and F. Kruse. 2004. Effectiveness of transdermal, needle-free injections for reducing pork carcass defects. *Meat Science* 68:329-332.

- Stalder, K. J., M. Knauer, **T. J. Baas**, M. F. Rothschild, and J. W. Mabry. 2004. Sow longevity. *Pig News and Information* 25(2):53N-74N.
- Baas, T. J.**, R. N. Goodwin, L. L. Christian, R. K. Johnson, O. W. Robison, J. W. Mabry, K. Clark, M. Tokach, S. Henry, and P. J. Berger. 2003. Design and standards for genetic evaluation of swine seedstock populations. *J. Anim. Sci.* 81:2409-2418.
- Chen, P., **T. J. Baas**, J. C. M. Dekkers, K. J. Koehler, and J. W. Mabry. 2003. Evaluation of strategies for selection on lean growth rate in pigs. *J. Anim. Sci.* 81:1150-1157.
- Chen, P., **T. J. Baas**, J. W. Mabry, J. C. M. Dekkers, and K. J. Koehler. 2003. Genetic parameters and trends for litter traits in U. S. Yorkshire, Duroc, Hampshire, and Landrace pigs. *J. Anim. Sci.* 81:46-53.
- Chen, P., **T. J. Baas**, J. W. Mabry, K. J. Koehler, and J. C. M. Dekkers. 2003. Genetic correlations between lean growth and litter traits in U. S. Yorkshire, Duroc, Hampshire, and Landrace pigs. *J. Anim. Sci.* 81:1700-1705.
- Moeller, S. J., **T. J. Baas**, T. D. Leeds, R. S. Emnett, and K. M. Irvin. 2003. Rendement Napole gene effects and a comparison of glycolytic potential and DNA genotyping for classification of Rendement Napole status in Hampshire-sired pigs. *J. Anim. Sci.* 81:402-410.
- Stoller, G. M., H. N. Zerby, S. J. Moeller, **T. J. Baas**, C. Johnson, and L. E. Watkins. 2003. The effect of feeding Ractopamine (Paylean) on muscle quality and sensory characteristics of Berkshire, Duroc, and a high-lean, crossbred genetic line of swine. *J. Anim. Sci.* 81:1508-1516.
- Berg, E. P., E. L. McFadin, K. R. Maddock, R. N. Goodwin, **T. J. Baas**, and D. H. Keisler. 2003. Serum concentrations of leptin in six genetic lines of swine and relationship with growth and carcass characteristics. *J. Anim. Sci.* 81:167-171.
- Huff-Lonerger, E., **T. J. Baas**, M. Malek, J. Dekkers, K. Prusa, and M. F. Rothschild. 2002. Correlations among selected pork quality traits. *J. Anim. Sci.* 80:617-627.
- Chen, P., **T. J. Baas**, J. W. Mabry, J. C. M. Dekkers, and K. J. Koehler. 2002. Genetic parameters and trends for lean growth rate and its components in U. S. Yorkshire, Duroc, Hampshire, and Landrace pigs. *J. Anim. Sci.* 80:2062-2070.
- Newcom, D. W., **T. J. Baas**, and J. W. Lampe. 2002. Prediction of intramuscular fat percentage in live swine using real-time ultrasound. *J. Anim. Sci.* 80:3046-3052.
- Newcom, D. W., **T. J. Baas**, J. W. Mabry, and R. N. Goodwin. 2002. Genetic parameters for pork carcass components. *J. Anim. Sci.* 80:3099-3106.
- Chen, P., **T. J. Baas**, J. C. M. Dekkers, and L. L. Christian. 2001. Selection for lean growth rate and correlated responses in litter traits in a synthetic line of Yorkshire-Meishan pigs. *Can. J. Ani. Sci.* 81:205-214.
- Malek, M., J. C. M. Dekkers, H. K. Lee, **T. J. Baas**, K. Prusa, E. Huff-Lonerger, and M. F. Rothschild. 2001. A molecular genome scan analysis to identify chromosomal regions influencing economic traits in the pig. II. Meat and muscle composition. *Mammalian Genome* 12:637-645.

Malek, M., J. C. M. Dekkers, H. K. Lee, **T. J. Baas**, and M. F. Rothschild. 2001. A molecular genome scan analysis to identify chromosomal regions influencing economic traits in the pig. I. Growth and body composition. *Mammalian Genome* 12:630-636.

Wiegand, B. R., F. C. Parrish, Jr., J. E. Swan, S. T. Larsen, and **T. J. Baas**. 2001. Conjugated linoleic acid improves feed efficiency, decreases subcutaneous fat, and improves certain aspects of meat quality in stress-genotype pigs. *J. Anim. Sci.* 79:2187-2195.

Swan, J. E., F. C. Parrish, Jr., B. R. Wiegand, S. T. Larsen, **T. J. Baas**, and E. P. Berg. 2001. Total body electrical conductivity (TOBEC) measurement of compositional differences in hams, loins, and bellies from conjugated linoleic acid (CLA)-fed stress-genotype pigs. *J. Anim. Sci.* 79:1475-1482.

Lawrence, J., J. Shaffer, A. Hallam, and **T. J. Baas**. 1999. Factors impacting production and economic variability in traditional Midwest swine enterprises. 1998-99 *Journal of American Society of Farm Managers and Rural Appraisers*, pp. 101-106.

**Baas, T. J.**, L. L. Christian and M. F. Rothschild. 1991. Heterosis and recombination effects in Hampshire and Landrace swine: I. Maternal traits. *J. Anim. Sci.* 70:89.

**Baas, T. J.**, L. L. Christian and M. F. Rothschild. 1991. Heterosis and recombination effects in Hampshire and Landrace swine: II. Performance and carcass traits. *J. Anim. Sci.* 70:99.

#### **PEER-REVIEWED PAPERS IN SCIENTIFIC MEETING PROCEEDINGS**

Soga, N., M. L. Spangler, C. R. Schwab, P. J. Berger, and **T. J. Baas**. 2010. Comparison of connectedness measures and changes in connectedness of the U.S. Duroc population. 9<sup>th</sup> World Cong. Gene. Appl. Livest. Prod. Leipzig, Germany, August 1-6, 2010. PP2-121.

C. R. Schwab, **T. J. Baas**, N. L. Berry, B. E. Mote, and K. J. Stalder. 2006. Selection for intramuscular fat in Duroc swine. 8<sup>th</sup> World Congress on Genetics Applied to Livestock Production, Belo Horizonte, Brazil. August 13-18, 2006. N° 06-14.

Newcom, D. W., T. Serenius, K. J. Stalder, **T. J. Baas**, and J. W. Mabry. 2006. Comparison of wean-to-service interval and farrowing interval from a commercial swine breeding program. 8<sup>th</sup> World Cong. Gene. Appl. Livest. Prod. Belle Horizonte, Brazil, August 13-18, 2006. N° 06-46.

Serenius, T. V., K. J. Stalder, **T. J. Baas**, J. W. Mabry, and R. N. Goodwin. 2005. Analysis of true sow longevity. Book of Abstracts of the 56<sup>th</sup> Annual Mtg. Erpn. Assoc. Anim. Prod. Stockholm, Sweden, June 5-8, 2005. pp. 75.

Knauer, M., T. Serenius, K. J. Stalder, **T. J. Baas**, J. W. Mabry, and R. N. Goodwin. 2005. Traits associated with sow stayability. Book of Abstracts of the 56<sup>th</sup> Annual Mtg. Erpn. Assoc. Anim. Prod. Stockholm, Sweden, June 5-8, 2005. pp. 74.

**Baas, T. J.**, C. R. Schwab, and K. J. Stalder. 2005. Selection for intramuscular fat in Duroc pigs using real-time ultrasound. Book of Abstracts of the 56<sup>th</sup> Annual Mtg. Erpn. Assoc. Anim. Prod. Stockholm, Sweden, June 5-8, 2005. pp. 120.

Burkett, J. L., K. J. Stalder, W. Powers, **T. J. Baas**, J. W. Mabry, and J. L. Pierce. 2005. Effect of inorganic and organic trace mineral supplementation on growth performance and carcass traits of market hogs. 21<sup>st</sup> Annual Symposium: Biotechnology in the Feed and Food Industries, Lexington, KY, May 22-25, 2005. (Suppl. 1):31.

**Baas, T. J.**, and S. J. Moeller. 2002. National Swine Improvement Federation Ultrasound Certification Program. Proceedings of the 17<sup>th</sup> Congress of the International Pig Veterinary Society. Ames, IA. June 2-5, 2002.

Mabry, J. W., and **T. J. Baas**. 2002. Internal multiplication versus purchasing replacement females: Relative genetic cost of production. Proceedings of the 17<sup>th</sup> Congress of the International Pig Veterinary Society. Ames, IA. June 2-5, 2002.

Thacker, B., T. Houser, D. Nilubol, F. Kruse, P. McCalmon, E. Thacker, **T. J. Baas**, and J. Sebranek. 2002. Serological and safety evaluation of a needle-free, transdermal injection device. Proceedings of the 17<sup>th</sup> Congress of the International Pig Veterinary Society. Ames, IA. June 2-5, 2002.

**Baas, T. J.**, and D. W. Newcom. 2002. Use of real-time ultrasound to predict intramuscular fat percentage in live swine. Proceedings of 7<sup>th</sup> World Congress on Genetics Applied to Livestock Production. Montpellier, France. August 19-23, 2002.

Newcom, D. W., **T. J. Baas**, J. W. Mabry, and R. N. Goodwin. 2002. Relationship between estimates of carcass composition and primal cut weights in pigs. Proceedings of 7<sup>th</sup> World Congress on Genetics Applied to Livestock Production. Montpellier, France. August 19-23, 2002.

Moeller, S. J., **T. J. Baas**, T. D. Leeds, R. S. Emnett, and K. M. Irvin. 2002. Effects of the Rendement Napole gene in Hampshire-sired pigs. Proceedings of 7<sup>th</sup> World Congress on Genetics Applied to Livestock Production. Montpellier, France. August 19-23, 2002.

## **PEER-REVIEWED BOOK CHAPTERS AND ELECTRONIC PUBLICATIONS**

**Baas, T. J.**, S. J. Moeller, K. J. Stalder, and J. D. Harmon. 2004. Electronic Swine Nursery Management Curriculum. National Pork Board, Des Moines, IA.

**Baas, T. J.**, J. Harmon, S. J. Moeller, and K. J. Stalder. 2003. Electronic Swine Nursery Management Curriculum. National Pork Board, Des Moines, IA.

Stalder, K. J., **T. J. Baas**, S. J. Moeller, M. Brumm, W. Singleton, D. Levis, L. J. Johnston, R. Goodband, M. Tokach, W. Marsh, D. Mold, G. Thome, and J. Murray. 2002. Trouble Shooting Guide to the National Pork Database Benchmarks. National Pork Board, Des Moines, IA.

**Baas, T. J.**, S. J. Moeller, K. J. Stalder, and the National Pork Producers Council's Swine Educators Committee. 2000. Swine Nursery Management Curriculum. National Pork Producers Council, Des Moines, IA.

**Baas, T. J.** and J. W. Mabry. 1998. The impact of genetics on pork quality. Pork Facts. American Meat Science Association and National Pork Producers Council.



## ABSTRACTS FOR SCIENTIFIC MEETINGS

- E. D. Testroet, P. J. Sherman, A. Testroet, C. L. Yoder, S. Lei, C. Reynolds, M. R. O'Neil, **T. J. Baas**, and D. C. Beitz. 2015. Modeling of hypertrophy and hyperplasia in porcine adipose tissue. *FASEB J.* 29 (Suppl. 1):254.5.
- J. D. Stock, B. E. Mote, **T. J. Baas**, M. F. Rothschild, and K. J. Stalder. 2015. Characterization and symmetry study of objective feet and leg joint measurements in five separate lines of maternal gilts. 2015 Midwest ASAS Meeting, Des Moines, IA.
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- Baas, T. J.** 1995. Using the Genetic Evaluation Results to Guide Your Breeding Program. Proceedings of National Pork Producers Council Pork Profitability Summit. Des Moines, IA. November 29, 1995.
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- Baas, T. J.** 1995. Understanding Swine EPDs and Breeding Programs. Proceedings of East Central Iowa Swine Conference. Anamosa, IA. February 9, 1995.
- Baas, T. J.** 1995. Breeding Herd Efficiency and the SEW Sow. Iowa State University Extension Service Winter Swine Series. pp. 25-30.
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## **PRESENTATIONS AT INDUSTRY CONFERENCES**

### **International Conferences**

- Baas, T.J.** 2013. PQA Plus Certification in the U.S. U.S.-China Swine Industry Forum – Food Safety Policies, Practices, and Performance. Beijing, China. September 27, 2013.
- Baas, T. J.** Improving Carcass and Meat Quality Traits Using On-Farm Testing Methods. Departmental Seminar -- National Taiwan University, Taipei, Taiwan. December 12, 2012.
- Baas, T. J.** Selection for IMF. Departmental Seminar – National Taiwan University, Taipei, Taiwan. December 12, 2012.
- Baas, T. J.** Current Development of Swine Genetic Improvement in the USA. Departmental Seminar -- National Taiwan University, Taipei, Taiwan. December 11, 2012.
- Baas, T. J.** Establishment of an Appropriate Genetic System. ABG Genetic Systems Technical Training Conference, Guangzhou, China. June 14, 2012.
- Baas, T. J.** Performance Testing Protocols: Data Collection and Storage. ABG Genetic Systems Technical Training Conference, Guangzhou, China. June 15, 2012.
- Baas, T. J.** U.S. Swine Industry – Technology and Production Practices. Producer Seminar.

Belaya Tserkov, Ukraine. July 22, 2010.

**Baas, T. J.** U.S. Swine Industry – Technology and Production Practices. Industry breeder meeting hosted by APK Agricultural Industrial Company and Dnipro Hybrid Farm. Dnepropetrovsk, Ukraine. July 20, 2010.

**Baas, T. J.** Overview of the U.S. Swine Industry – Modern Swine Production. AgroFarm Show. Moscow, Russia. May 26, 2010.

**Baas, T. J.** Overview of the U.S. Swine Industry – Modern Swine Production. Neoforce Ltd. Seminar. Minsk, Belarus. May 24, 2010.

**Baas, T. J.** Incorporating Genetics and Management to Enhance Production and Profitability. 18th Hog Convention and Trade Exhibits, National Federation of Hog Farmers, Inc. Manila, Philippines. April 23, 2009.

**Baas, T. J.** U.S. Pork Production – U.S. Pork Production – Past, Present, & Future. Seminar presented to producers at U.S. Embassy. Kiev, Ukraine. July 31, 2008.

**Baas, T. J.** U. S. Pork Industry – Current Challenges. 17th Hog Convention and Trade Exhibits, National Federation of Hog Farmers, Inc. Cebu City, Philippines. April 27, 2008.

**Baas, T. J.** 2007. U. S. Pork Industry – Current Challenges. Seminar at Timiryazev Academy, Moscow, Russia. May 24, 2007.

**Baas, T. J.** 2007. Management and Technology to Improve Profitability. 16th Hog Convention and Trade Exhibits, National Federation of Hog Farmers, Inc. Mandaluyong City, Philippines. April 13, 2007.

**Baas, T. J.** 2007. Current State of the U.S. Pork Industry. 16th Hog Convention and Trade Exhibits, National Federation of Hog Farmers, Inc. Mandaluyong City, Philippines. April 12, 2007.

**Baas, T. J.** 2006. Current Status of U.S. Pork Industry. Presented to faculty and students at Kherson State Agricultural University, Kherson, Ukraine. September 6, 2006.

**Baas, T. J.** 2006. Breeding Programs for Profitability. Seminar sponsored by U.S. Livestock Genetic Export. Skadovsk, Ukraine. September 5, 2006.

**Baas, T. J.** 2006. Current Status of U.S. Pork Industry. Seminar sponsored by U.S. Livestock Genetic Export. Skadovsk, Ukraine. September 4, 2006.

**Baas, T. J.** 2006. Selection for Intramuscular fat Using Real-time Ultrasound. Faculty and students of the Associação Brasileira de Veterinários Especialistas em Suino. Belo Horizonte, Brazil. August 11, 2006.

**Baas, T. J.** 2005. Incorporation of meat quality and use of ultrasound technology for swine genetic improvement programs. Presented at the Ensminger School 2005, International Conference on Swine Genetics and Breeding, Guangzhou, China. October 9-12, 2005.

**Baas, T. J.** Research projects in Swine at Iowa State University. MTT Agri-food Finland Animal Breeding Seminar, Jokioinen, Finland. April 15, 2004.

- Baas, T. J.** Genetics for Profitability. Sabah Swine Association Producer Seminar, Kota Kinabalu, Malaysia. March 3, 2004.
- Baas, T. J.** and J. F. Lampe. Real-time Ultrasound Procedures. Hypor International Genetics Company Seminar, La Coruna, Spain. May 25, 2003.
- Baas, T. J.** Pork Production in the U.S. Seminar of the National Pork Producers Association, Bucharest, Romania. February 24, 2003.
- Baas, T. J.** Using Genetics to Breed for Meat Quality. Regional Center for Animal Breeding Seminar, Poznan, Poland. February 21, 2003.
- Baas, T. J.** Pork Production in the U.S. Ministry of Agriculture and Rural Development Seminar, Warsaw, Poland. February 19, 2003.
- Baas, T. J.** Using Genetics to Breed for Meat Quality. Presented to the AgroGen Genetic Development Seminar, Montenegro, Brazil. June 27, 2002.
- Baas, T. J.,** and J. F. Lampe. Real-Time Ultrasound Measurement Procedures in the U.S. Presented to the U.S. Grains Council Seminar, Shanghai and Guangzhou, China. May 6 and 9, 2002.
- Baas, T. J.,** and J. F. Lampe. Evaluation and Selection for Meat Quality Traits. Presented to the U.S. Grains Council Seminar, Shanghai and Guangzhou, China. May 6 and 9, 2002.
- Baas, T. J.,** and J. F. Lampe. Use of Real-Time Ultrasound in Selection Programs. Presented to the Korean Animal Improvement Association Producer Seminar, Seoul, Korea. May 3, 2002.
- Baas, T. J.,** and J. F. Lampe. Livestock Judging Contests and Procedures. Presented to the Korean Animal Improvement Association Producer Seminar, Seoul, Korea. May 3, 2002.
- Baas, T. J.** Using Genetics to Breed for Meat Quality. Presented at the annual meeting of the Sonora Swine Producers Association, Hermosillo, MX. September 7, 2001.
- Baas, T. J.** Using Genetics to Breed for Meat Quality. Presented to the Navajo Farmers Association, Navajo, MX. September 6, 2001.
- Baas, T. J.** Using Genetics to Breed for Meat Quality. Presented at the annual meeting of the Oregon Swine Growers Association, Oregon, MX. September 5, 2001.
- Baas, T. J.** Genetics for Profitability. Presented to the Taejon Pig Improvement Conference, Taejon, Korea. June 7, 2001.
- Baas, T. J.** Genetics for Profitability. Presented to the Korean Animal Improvement Association Conference, Seoul, Korea. June 5, 2001.
- Baas, T. J.** Performance Evaluation Programs in the U. S. Presented to the Hangzhou Pig Farmers Association, Hangzhou, China. May 8, 2001.

- Baas, T. J.** Data Collection and Ultrasound Measurement Procedures in the U. S. Presented to the Wenshi Farms Group, Guangzhou, China. May 5, 2001.
- Baas, T. J.** Trends in Breeding and Genetics Management. Presented to the Shenzen Nongmu Group, Shenzen, China. May 4, 2001.
- Baas, T. J.** Trends in Breeding and Genetics Management. Presented to the Hainan Yuchang Group, Hainan, China. May 2, 2001.
- Baas, T. J.** Using Genetics to Breed for Meat Quality. Presented to the Sabah Livestock Association, Kota Kinabalu, Malaysia. March 22, 2001.
- Baas, T. J.** Using Genetics to Breed for Meat Quality. Presented to the Penang Farmers Association, Penang, Malaysia. March 20, 2001.
- Baas, T. J.** Using Genetics to Breed for Meat Quality. Presented to the Mallaca Swine Producers Association, Mallaca, Malaysia. March 19, 2001.
- Baas, T. J.** Evaluating Genetics and Its Effect on Pork Quality. Korean Animal Improvement Association Conference, Seoul, Korea. September 23, 2000.
- Baas, T. J.** Data Collection and Ultrasound Measurement Procedures in the U.S. Korean Animal Improvement Association Conference, Seoul, Korea. September 21, 2000.
- Baas, T. J.** Swine Production in the U. S. 114<sup>th</sup> Palermo Rural Expo Seminar, Buenos Aires, Argentina, July 14, 2000.
- Baas, T. J.** How Swine Genetics Influence Meat Quality. 10th National Federation of Hog Farmers, Inc. Seminar, Manila, Philippines, May 5, 2000.
- Baas, T. J.** Performance Evaluation in the U.S. Producer Seminars in Beijing, Guangzhou, and Shanghai, China, March 13-23, 2000.
- Baas, T. J.** Live Animal Evaluation. China Animal Husbandry and Feed Industries Trade Fair. Changsha, China. May 8, 1999.
- Baas, T. J.** What is Pork Quality? A Discussion of the Traits Involved in Muscle Quality in the U.S. Six seminars in China. May 4-14, 1999.
- Baas, T. J.** Muscle Quality Trends in the U.S. Manila Swine Association, Manila, Philippines. March 18, 1998.
- Baas, T. J.** Economics of AI and Genetic Improvement. Philippine Swine Association, General Santos, Philippines. March 16, 1998.
- Baas, T. J.** Genetic Evaluation Programs in the U.S. Korean Animal Improvement Association, Seoul, Korea. March 13, 1998.
- Baas, T. J.** Using Genetic Evaluation Results to Improve Genetics. Santiago, Dominican Republic. September 25, 1997.
- Baas, T. J.** Genetic Improvement Programs in the U.S. Santo Domingo, Dominican Republic.



September 23, 1997.

**Baas, T. J.** Using the NGEF Results to Guide Your Breeding Program. Mexican Pork Congress, Guanajuato, Mexico. September 7, 1996.

**Baas, T. J.** Pork Quality -- Is It All In The Genes? International Pig Topics Beyond 2000 Conference, Bangkok, Thailand. November 16, 1995.

**Baas, T. J.** Genetic Evaluation Programs in the U.S. Guadalajara Trade Show, Guadalajara, Mexico. January 30, 1993.

### **National Industry Conferences**

**Baas, T. J.** Swine Science Online. Presented at the National Pork Board Swine Educators Conference, Sioux Falls, SD. September 28, 2011.

**Baas, T. J.** Selection for Intramuscular Fat Using Real-time Ultrasound. NSIF Certification Conference, Ames, IA. May 19, 2008.

**Baas, T. J.** 2007. ISU IMF Selection Project. Presented at the 31st National Swine Improvement Federation Conference and Annual Meeting. Kansas City, MO. December 6-7, 2007.

**Baas, T. J.** 2005. Purchasing vs. Closed Herd Systems. Presented at Pork Academy, Des Moines, IA. June 8, 2005.

**Baas, T. J.** Selection for Intramuscular Fat in Duroc Swine. Presented at the 28<sup>th</sup> National Swine Improvement Federation Conference and Annual Meeting, Ames, IA, December 9-10, 2004.

**Baas, T. J.** Swine Welfare Assurance Program Educator Training. Presented at the American Association of Swine Veterinarians Annual Meeting. March 6, 2004.

**Baas, T. J.** State Training Reciprocity Sharing Session – Field Specialists. Presented at the National Pork Board Swine Educators Conference, Des Moines, IA. September 18, 2003.

**Baas, T. J.** Comparison of Grain Sources (Barley, White Corn, and Yellow Corn) for Swine Diets and Effects on Performance and Carcass Traits. Presented at the National Pork Board Pork Academy, Des Moines, IA. June 4, 2003.

**Baas, T. J.** Composition and Value of Loin Primals. Presented at the National Pork Board Estimating Whole Hog Value Symposium, Des Moines, IA, November 20, 2002.

**Baas, T. J.** Management Considerations in Using Paylean. Presented at the National Pork Board Swine Educators Conference, Des Moines, IA. September 19, 2002.

**Baas, T. J.** Evaluation of Muscle Quality Traits and Their Importance in Value-added Markets. Presented at the National Swine Registry Junior Leadership Conference, Des Moines, IA. May 17, 2002.

- Baas, T. J.** How we are Using Educational Materials Developed by Adult Ag/Extension Swine Educators. Presented at the National Pork Board Educators Conference, Des Moines, IA. September 21, 2001.
- Baas, T. J.** and J. W. Mabry. Primal Cut Pricing of Swine Carcasses. Presented at the National Pork Board Educators Conference, Des Moines, IA. September 21, 2001.
- Baas, T. J.** Real-time Ultrasound Procedures in Estimating Intramuscular Fat. National Swine Improvement Federation Ultrasound Certification Conference, Ames, IA. May 21, 2001.
- Baas, T. J.** Implementing Production and Financial Standards in an Adult Curriculum. National Pork Producers Council Swine Educators Conference, Des Moines, IA. September 29, 2000.
- Baas, T. J.** The Influence of the Maternal Lines on Growth, Efficiency, and Quality. National Pork Producers Council Swine Educators Conference, Des Moines, IA. September 28, 2000.
- Baas, T. J.** SEW/Nursery Management Curriculum. National Pork Producers Council Swine Educators Conference, Des Moines, IA. September 27, 2000.
- Baas, T. J.** Ten-Year Summary of NBS Progeny Test. National Barrow Show University Seminar, Austin, MN. September 11, 2000.
- Baas, T. J.** Evaluating Genetics. World Pork Expo Educational Seminar, Indianapolis, IN. June 8, 2000.
- Baas, T. J.** The Influence of the Maternal Lines on Growth, Efficiency, and Quality. National Pork Producers Council Pork Academy, Indianapolis, IN. June 7, 2000.
- Baas, T. J.** Implementing National Pork Producers Council Fat-Free Lean Prediction Equations. National Swine Improvement Federation Ultrasound Certification Conference. Ames, IA. May 22, 2000.
- Baas, T. J.** Progeny Results. National Pork Producers Council Maternal Line Symposium, Des Moines, IA. April 19, 2000.
- Baas, T. J.** Making the Transition from Judging Team to National Judge. National Block & Bridle Convention, Atlanta, GA. March 25, 2000.
- Baas, T. J.** Future Trends in the Pork Industry. National Block & Bridle Convention, Atlanta, GA. March 25, 2000.
- Baas, T. J.** Using Production and Financial Standards. National Pork Producers Council Pork Forum, Kansas City, MO. March 3, 2000.
- Baas, T. J.** Use of Fat-Free Lean Prediction Equations for Determining Production Endpoints. National Pork Producers Council Quality Lean Growth Modeling Symposium, Des Moines, IA. November 16, 1999.

- Baas, T. J.** Using the Fat-Free Lean Index. World Pork Expo P.O.R.K. Academy, Des Moines, IA June 9, 1999.
- Baas, T. J.** Transition to the Future. National Pork Producers Council Pork Summit. Des Moines, IA. June 8, 1999.
- Baas, T. J.** Implementing National Pork Producers Council Fat-Free Lean Prediction Equations. National Swine Improvement Federation Ultrasound Certification Conference. Ames, IA. May 24, 1999.
- Baas, T. J.** What is Pork Quality? A Discussion of the Traits Involved in Pork Quality. National Swine Registry Swine Testing And Genetic Evaluation System (STAGES) Roundtable Meeting. West Lafayette, IN. March 25, 1999.
- Baas, T. J.** Playing Matchmaker – A Look at Breeding Schemes and How to Maximize Heterosis. National Swine Registry Swine Testing And Genetic Evaluation System (STAGES) Roundtable Meeting. West Lafayette, IN. March 25, 1999.
- Baas, T. J.** What's New in Muscle Quality. National Pork Producers Council Pork Leadership Institute, Ames, IA. July 10, 1998.
- Baas, T. J.** What's On The Horizon. World Pork Expo Educational Seminar, Des Moines, IA. June 4, 1998.
- Baas, T. J.** How Genetics Can Affect What You Get Paid. World Pork Expo P.O.R.K. Academy, Des Moines, IA June 3, 1998.
- Baas, T. J.** Pork Carcass Lean Value Pricing. National Pork Producers Council Pork 101, Ames, IA. April 1, 1998.
- Baas, T. J.** Genetics of Pork Quality. National Pork Producers Council Pork 101, Ames, IA. March 30, 1998.
- Baas, T. J.** Adjusting the Genetic Base – Implications and Education. Swine Testing And Genetic Evaluation System (STAGES) Roundtable Meeting, West Lafayette, IN. March 26, 1998.
- Baas, T. J.** Breeding Systems Analysis -- Buying Gilts vs. Grandparenting. National Swine Improvement Federation Conference and Annual Meeting, Des Moines, IA. December 5, 1997.
- Baas, T. J.** Key Tips to Improving Breeding and Gestation Management of High-Lean Females. National Pork Producers Council Professional Swine Managers Training, Princeton, MO. November 5, 1997.
- Baas, T. J.** What Effect Does Day to Day Variation Have? National Pork Producers Council Pork Quality Summit, Des Moines, IA. July 9, 1997.

**Baas, T. J.** Using Packer Carcass Buying Grids. National Pork Producers Council Pork Quality Summit, Des Moines, IA. July 8, 1997.

**Baas, T. J.** Genetics of Meat Quality. Pork '97 Quality Roundtable, Des Moines, IA. July 7, 1997.

**Baas, T. J.** What is the Impact of Genetics on Meat Quality? World Pork Expo P.O.R.K. Academy, Indianapolis, IN. June 4, 1997.

**Baas, T. J.** What is the Impact of Genetics on Meat Quality? World Pork Expo International Symposium, Indianapolis, IN. June 3, 1997.

**Baas, T. J.** Impact of the Changing Structure of the Swine Industry on Seedstock Producers. North Central Region Extension Specialists Tri-annual Workshop, Lincoln, NE. May 20, 1997.

**Baas, T. J.** Standards for the Pork Industry. National Pork Producers Council Swine Extension Educators Conference, Des Moines, IA. September 5, 1996.

**Baas, T. J.** Using Genetics to Improve Pork Profits. National Pork Producers Council Swine Extension Educators Conference, Des Moines, IA. September 4, 1996.

**Baas, T. J.** National Swine Genetic Evaluation Systems: Current Status. Breeding and Genetics Symposium, American Society of Animal Science Annual Meeting, Rapid City, SD. July 25, 1996.

**Baas, T. J.** Production and Financial Records Committee Review. Midwest Section American Society of Animal Science Annual Meeting, Des Moines, IA. March 20, 1996.

**Baas, T. J.** Using the Genetic Evaluation Results to Guide Your Breeding Program. National Pork Producers Council Pork Profitability Summit, Des Moines, IA. November 29, 1995.

**Baas, T. J.** Current Status of the Problem. National Pork Producers Council Production Standards Meeting, Des Moines, IA. October 5, 1995.

**Baas, T. J.** Identification of Roles. National Pork Producers Council Extension Educators Conference, Des Moines, IA. September 26-27, 1995.

**Baas, T. J.** Genetically Designed Pork Products. Pork and the U.S. Consumer Conference, Des Moines, IA. March 28-29, 1995.

**Baas, T. J.** Biological and Genetic Components of 21-day Litter Weight. National Swine Improvement Federation Conference and Annual Meeting, St. Louis, MO. December 4, 1988.

### **State and Regional Industry Conferences**

**Baas, T. J.** Technology and Production Practices in the U.S. Swine Industry. International Farmers Aid Association Winter Short Course, Ames, IA. December 3, 2013.

- Baas, T. J.** Measuring Carcass Quality. Presented to Pork 101, sponsored by National Pork Board, Ames, IA. October 9, 2013.
- Baas, T. J.** Live Market Hog Evaluation. Presented to Pork 101, sponsored by National Pork Board, Ames, IA. October 8, 2013.
- Baas, T. J.** U.S. Swine Industry – Technology and Production Practices. International Farmers Aid Association Winter Short Course, Ames, IA. December 4, 2012.
- Baas, T. J.** Live Market Hog Evaluation. Presented to Pork 101, sponsored by National Pork Board, Ames, IA. October 15, 2012.
- Baas, T. J.** Review Carcasses for Quality and Yield. Presented to Pork 101, sponsored by National Pork Board, Ames, IA. October 15, 2012.
- Baas, T. J.** Measuring Carcass Quality. Presented to Pork 101, sponsored by National Pork Board, Ames, IA. October 16, 2012.
- Baas, T. J.** U.S. Swine Industry – Technology and Production Practices. International Farmers Aid Association Winter Short Course, Ames, IA. December 6, 2011.
- Baas, T. J.** Pork Carcass Lean Value Pricing. Presented to Pork 101, sponsored by National Pork Board, Ames, IA. September 19, 2011.
- Baas, T. J.** Live Market Hog Evaluation. Presented to Pork 101, sponsored by National Pork Board, Ames, IA. September 19, 2011.
- Baas, T. J.** Selection for IMF. Presented to Ukraine Pork Producers Delegation, Ames, IA. June 7, 2011.
- Baas, T. J.** Selection for IMF. U.S. Meat Export Federation Oceanic Trade Team, Ames, IA. March 31, 2011.
- Baas, T. J.** U.S. Swine Industry – Technology and Production Practices. International Farmers Aid Association Winter Short Course, Ames, IA. December 7, 2010.
- Baas, T. J.** Ultrasound Image Collection and Interpretation. U.S. Grains Council Swine Study Mission for China and Vietnam, Ames, IA. June 18, 2010.
- Baas, T. J.** Pork Carcass Lean Value Pricing. Presented to Pork 101, sponsored by National Pork Board, Ames, IA. March 10, 2010.
- Baas, T. J.** Live Market Hog Evaluation. Presented to Pork 101, sponsored by National Pork Board, Ames, IA. March 9, 2010.
- Baas, T. J.** Evaluating Pork Quality. Presented to Pork 101, sponsored by National Pork Board. Ames, IA. March 10, 2009.
- Baas, T. J.** Live Market Hog Evaluation. Presented to Pork 101, sponsored by National Pork Board. Ames, IA. March 10, 2009.

- Baas, T. J.** Evaluating Pork Quality. Presented to Pork 101, sponsored by National Pork Board. Ames, IA. March 5, 2008.
- Baas, T. J.** Live Market Hog Evaluation. Presented to Pork 101, sponsored by National Pork Board. Ames, IA. March 4, 2008.
- Baas, T. J.** Evaluating Pork Quality. Presented to Pork 101, sponsored by National Pork Board. Ames, IA. March 6, 2007.
- Baas, T. J.** Live Market Hog Evaluation. Presented to Pork 101, sponsored by National Pork Board. Ames, IA. March 5, 2007.
- Baas, T. J.** 2006. Structural Soundness – Selection Criteria. Iowa State University Disease Conference, Ames, IA. November 13, 2006.
- Baas, T. J.** Evaluating Pork Quality. Presented to Pork 101, sponsored by National Pork Board. Ames, IA. February 28, 2006.
- Baas, T. J.** Live Market Hog Evaluation. Presented to Pork 101, sponsored by National Pork Board. Ames, IA. February 27, 2006.
- Baas, T. J.** Evaluating Pork Quality. Presented to Pork 101, sponsored by National Pork Board. Ames, IA. March 8, 2005.
- Baas, T. J.** Live Market Hog Evaluation. Presented to Pork 101, sponsored by National Pork Board. Ames, IA. March 7, 2005.
- Baas, T. J.** Live Market Hog Evaluation and Grading. Presented to Pork 101, sponsored by National Pork Board. Ames, IA. March 8, 2004.
- Baas, T. J.** Pork Carcass Lean Value Pricing. Presented to Pork 101, sponsored by National Pork Board. Ames, IA. March 8, 2004.
- Baas, T. J.** and H. Sellers. Genetic Effects on Primal Cut Yield and Primal Cut Value. Presented at the Minnesota Pork Convention, January 31, 2002, Minneapolis, MN.
- Baas, T. J.,** C. J. Johnson, and S. J. Moeller. Effect of Feeding Paylean™ on Growth, Carcass, and Quality Traits in Three Genetic Lines of Swine. Presented at the Iowa Pork Congress, January 23, 2002, Des Moines, IA.
- Baas, T. J.** Development of Niche Markets for Pork Products. Presented at the Iowa Pork Producers Association Culinary Conference, Ames, IA. November 15, 2001.
- Baas, T. J.** Evaluating Niche Markets. Presented at the Iowa Pork Industry Center ICN Program, Ames, IA. August 20, 2001.
- Baas, T. J.** Paylean – Muscle Quality Issues and 4-H/FFA Swine Exhibitions. Presented at the Iowa Pork Industry Center ICN Program, Ames, IA. March 26, 2001.

- Baas, T. J.** and J. W. Mabry. Factors influencing pork quality in swine. Presented at the Iowa Pork Congress, January 24, 2001, Des Moines, IA.
- Baas, T. J.** Muscle Quality – The Future for Pork Value. Iowa Pork Congress, Des Moines, IA. January 19, 2000.
- Baas, T. J.** The Next 30 Days – Management Information for Pork Producers. Iowa Pork Industry Center ICN Program, Ames, IA. December 14, 1998.
- Baas, T. J.** Using Performance Information in Evaluating Swine. Minnesota Swine Judging Conference, Albert Lea, MN. June 24, 1998.
- Baas, T. J.** Hog Economic Update. Iowa Pork Industry Center ICN Program, Ames, IA. April 13, 1998.
- Baas, T. J.** 1998 4-H Market Swine Show. Iowa 4-H Satellite Conference, Ames, IA. March 9, 1998.
- Baas, T. J.** Understanding Performance Evaluation. Iowa Purebred Swine Council Seminar, Ames, IA. February 18, 1998.
- Baas, T. J.** 1998 Iowa State Fair 4-H Market Swine Show. Iowa Association of Fairs Annual Conference, Des Moines, IA. December 6, 1997.
- Baas, T. J.** Managing the Breeding Herd for Production Needs. Iowa Pork Industry Center Producer Seminar, Ames, IA. September 16, 1997.
- Baas, T. J.** New Seedstock Testing Concepts. Iowa Purebred Swine Council Seminar, Ames, IA. February 26, 1997.
- Baas, T. J.** Maximizing Profits from KILLSHEETS. IA-MO Swine Conference, Maryville and St. Joseph, MO. February 13, 1997.
- Baas, T. J.** Maximizing Profits from KILLSHEETS. IA-MO Swine Conference, Red Oak and Harlan, IA. February 12, 1997.
- Baas, T. J.** Sizing Swine Building Systems. Farm Builders Conference, Ames, IA. February 4, 1997.
- Baas, T. J.** Evaluating Swine Genetics and Breeding Companies. Minnesota Swine Expo '96, St. Cloud, MN. December 18, 1996.
- Baas, T. J.** Evaluating a KILLSHEET. Professional Swine Management Certification Series, Iowa Pork Industry Center, Ames, IA. September 18, 1996.
- Baas, T. J.** Principles of Genetics. National Agri-Marketing Association "Pork Power" Program, Cedar Rapids, IA. June 3, 1996.

- Baas, T. J.** High Lean Genetics and Pork Quality. Planning For Pork Profits Satellite Conference, Land-O-Lakes Pork System. March 14, 1996.
- Baas, T. J.** New Seedstock Testing Concepts. Iowa Purebred Swine Council Seminar, Ames, IA. February 28, 1996.
- Baas, T. J.** Use of the NPPC Genetic Evaluation Results to Guide Your Genetic Decision-Making Process. Illinois Pork Expo, Peoria, IL. January 24, 1996.
- Baas, T. J.** Dealing With the Stress Gene. Iowa Pork Industry Center Professional Swine Managers Conference, Des Moines, IA. December 14-15, 1995.
- Baas, T. J.** Using Breeding Herd Records to Stay Profitable. Hormel and Co. Feed Division, Austin, MN. June 19, 1995.
- Baas, T. J.** Value of Breeding Herd Records. Iowa Feed and Nutrition Conference, Ames, IA. May 16, 1995.
- Baas, T. J.** Current Status of ISU Swine Enterprise Records. Iowa Farm Business Association, Ames, IA. May 8, 1995.
- Baas, T. J.** Financial Value of Effective Breeding Herd Management. Iowa Pork Industry Center Professional Swine Managers Conference, Des Moines, IA. March 22, 1995.
- Baas, T. J.** EPDs-Tools for Profit. Iowa SPF Association Annual Meeting, Ames, IA. March 21, 1995.
- Baas, T. J.** Tennessee Feeder Pig Seminar. Tennessee Pork Producers Association Convention, Murfreesboro, TN. January 20, 1992.

#### RESEARCH AND EXTENSION GRANTS RECEIVED

<b>Investigators</b>	<b>Title</b>	<b>Amount</b>	<b>Source</b>	<b>Year</b>
Harmon, J. D., H. Xin, S. Hoff, and <b>T. J. Baas</b>	Evaluation of Transportation Conditions on Performance of Weaned and Feeder Pigs	\$47,196	National Pork Board	13-14
<b>Baas, T. J.</b> and G. Miller	Professional Development for Swine Distance Education Instructors	\$142,760	National Institute of Food and Agriculture/ USDA	12-14
<b>Baas, T. J.</b>	Graduate Student Support in Swine Breeding	\$10,000	Iowa Purebred Swine Council	13
<b>Baas, T. J.</b> and D. C. Beitz	Relationship of fat quality to meat and eating quality traits of pork	\$68,250	National Pork Board	12-13
<b>Baas, T. J.</b> and C. L. Yoder	U.S. Swine Genetics and Pork Production Training Program	\$19,250	Cochran Fellowship Program -- USDA FAS	12
<b>Baas, T. J.</b>	Graduate Student Support in	\$10,000	Iowa Purebred	12



	Swine Breeding		Swine Council	
<b>Baas, T. J.</b>	Graduate Student Support in Swine Breeding	\$10,000	Iowa Purebred Swine Council	11
<b>Baas, T. J.</b>	Graduate Student Support in Swine Breeding	\$10,000	Iowa Purebred Swine Council	10
<b>Baas, T. J.</b>	Graduate Student Support in Swine Breeding	\$10,000	Iowa Purebred Swine Council	09
Kliebenstein, J., <b>T. J. Baas</b> , and K. Prusa	Economic analysis of increased levels of intramuscular fat in pork	\$58,802	Agricultural Marketing Resource Center	08
<b>Baas, T. J.</b>	Graduate Student Support in Swine Breeding	\$10,000	Iowa Purebred Swine Council	08
<b>Baas, T. J.</b>	Enhancing pork quality and value using live animal ultrasound technology for better breeding and marketing	\$18,000	Biotronics, Inc.	07-09
Dekkers, JCM, and <b>Baas, T. J.</b>	Selection lines to enhance genetic selection for feed efficiency	15,454	Iowa Pork Prod. Assoc.	07-08
<b>Baas, T. J.</b>	Graduate Student Support in Swine Breeding	\$10,000	Iowa Purebred Swine Council	07
<b>Baas, T. J.</b>	Evaluation of Ecorn as a nutrient supply for grower-finisher pigs	\$41,535	Renessen, LLC; Cargill Animal Nutrition	07
<b>Baas, T. J.</b>	Graduate Student Support in Swine Breeding	\$10,000	Iowa Purebred Swine Council	07
<b>T. J. Baas</b> , D. Beitz, and K. Prusa	Selection for increased intramuscular fat and its effect on other quality traits and the fatty acid composition of pork	\$31,988	National Pork Board	06-07
Stalder, K. J., L. Karriker, M. F. Rothschild, <b>T. J. Baas</b> , J. W. Mabry, and J. D. McKean	Association of compositional, structural soundness, and health with the ability of a commercial line of young sows to successfully complete parities two and three.	\$104,510	National Pork Board	06
Stalder, K. J., L. Karriker, A. Johnson, and <b>T. J. Baas</b>	Association of compositional, structural soundness and health with the ability of a commercial line of young sows to successfully complete parities four and five	\$43,173	National Pork Board	06
<b>Baas, T. J.</b> , L. Karriker, L. Berry, N. Rothschild, M. F. Stalder, K. J.	Development of a database to evaluate genetics of health	\$99,602	National Pork Board	05-06
Johnson, A. <b>Baas, T. J.</b> Hogberg, M. Honeyman, M.	To create a production facility which will encompass swine well-being research, teaching and outreach excellence using sound	\$80,000	Iowa Pork Producers Association	05-06

	science through a multi-disciplinary approach			
Stalder, K. J., L. Karriker, M. F. Rothschild, <b>T. J. Baas</b> , J. W. Mabry, and J. D. McKean	Association of compositional, structural soundness, and health with the ability of a commercial line of young sows to successfully complete parity one	\$125,000	National Pork Board	05
<b>Baas ,T. J.</b> Stalder, K. J. Powers, W. J.	A comparison of four trace mineral supplementation regiments in phase-fed, grow-finish swine	\$25,830	Alltech, Inc.	05
Stalder K. J., <b>T. J. Baas</b> , W. Powers and J. W. Mabry	Growth comparison of two levels of traditional inorganic trace mineral supplementation to response of two levels of Bioplex™ trace mineral supplementation in swine	\$55,830	Alltech, Inc.	05
Karriker, L. Harmon, J. D. <b>Baas, T. J.</b> Stalder, K. J.	Integration and validation of a radio frequency identification system and automatic scale technology for real-time correlation of management and disease impacts with the performance of swine in swine field studies	\$18,478	Healthy Livestock Initiative Competitive Grants Program	04-05
<b>Baas, T. J.</b>	Graduate Student Support in Swine Breeding	\$6,000	Iowa Purebred Swine Council	04-05
Hogberg, M. Mabry, J. W. <b>Baas, T. J.</b> Stalder, K. J.	Author agreement between Iowa State University and the National Pork Board	\$50,000	National Pork Board	04-06
Stalder, K. J. <b>Baas, T. J.</b> Mabry, J. W. Powers, W.	Growth Comparison of Traditional Inorganic Trace Mineral Supplementation to Response of Bioplex Trace Mineral Supplementation in Swine	\$78,000	Alltech, Inc.	03-04
<b>Baas, T. J.</b>	Graduate Student Support in Swine Breeding	\$15,000	Iowa Purebred Swine Council	03-04
<b>Baas, T. J.</b> Mabry, J. W. Schwab, C. R. Newcom, D. W. Lampe, J. F. Johnson, C. D.	The Effect of Long-Term Selection for Reduced Backfat and Increased Loin Muscle Area on Meat and Eating Quality Traits in Duroc Swine	\$25,000	Iowa Pork Producers Association	02-04
Mabry, J. W. <b>Baas, T. J.</b> Holden, P. J.	Comparison of Grain Sources (Barley, White Corn, and Yellow Corn) for Swine Diets	\$32,420	Iowa Pork Producers Association	01-02
Sebranek, J. G. Houser, T. A. Thacker, B. J. <b>Baas, T. J.</b>	Feasibility of Transdermal, Needleless Injection Device for Prevention of Pork Carcass Defects	\$24,950	National Pork Producers Council	01-02
Mabry, J. W.	Comparison of Semen Delivery	\$10,860	Iowa Pork	01-02

<b>Baas, T. J.</b>	Systems for Commercial Swine Production in Iowa		Producers Association	
Moeller, S. J. <b>Baas, T. J.</b>	Evaluation of the Effect of Paylean on Muscle Quality Traits	\$80,000	Elanco Animal Health	00-01
Harmon, J. D. Xin, H. <b>Baas, T. J.</b>	Economic Evaluation of Wean-to-Finish Production Systems	\$23,260	Iowa Pork Producers Association	99-00
<b>Baas, T. J.</b> Prusa, K. Fedler, C.	Taste Panel Analysis of Pork	\$3,000	Iowa Pork Producers Association	99-00
Morris, C. <b>Baas, T. J.</b> Christian, L. L.	Development of Educational Programs on the Swine Industry for Iowa 4-H Members	\$25,000	Iowa Pork Producers Association	98-00
Morris, C. <b>Baas, T. J.</b> Christian, L. L.	Educational Materials for State Fair Derby Program	\$2,000	Iowa Pork Producers Association	98-99
<b>Baas, T. J.</b> Christian, L. L.	Graduate Student Support in Swine Breeding	\$10,000	Iowa Pork Producers Association	98
Harmon, J. D. Xin, H. Hoff, S. <b>Baas, T. J.</b> Mangold, D. McKean, J. D.	Development of an Energy Conservation Education Program for Iowa's Livestock and Poultry Industry	\$31,909	Iowa Energy Center	97-98
Rothschild, M. F. Christian, L. L. <b>Baas, T. J.</b>	A Molecular Genome Scan Analysis to Identify Genes Influencing Muscle Quality in the Pig	\$255,000	National Pork Producers Council	96-98
<b>Baas, T. J.</b> Christian, L. L. Rouse, G. H.	Prediction of Muscle Quality in Live Pigs Using Press Biopsy	\$18,000	National Pork Producers Council	96-98
Harmon, J. D. Xin, H. Hoff, S. <b>Baas, T. J.</b> McKean, J. D. Watson, C.	Economic Evaluation of Finishing Facilities and the Development of a Decision-Aid Energy Estimator Program for the Swine Industry	\$13,400	Iowa Pork Industry Center	96-98
<b>Baas, T. J.</b> Wilson, D. Spike, P.	Swine Monitoring Program Development/Marketing	\$8,000	Iowa Pork Producers Association	95-96
Rothschild, M. F. Christian, L. L. <b>Baas, T. J.</b>	Development of a Resource Family for Meat Quality	\$12,000	National Pork Producers Council	95-96
Kattesh, H. <b>Baas, T. J.</b>	Influence of Social Restriction on Biological Measures in Gilts Selected for Adrenocortical Response to ACTH	\$18,000	National Pork Producers Council	92-93
<b>Baas, T. J.</b>	Genotype x Environment Interactions in Terminal Sire Line Evaluation	\$15,000	National Pork Producers Council	91-92

