

PUBLICATIONS ASSOCIATED WITH RESEARCH AND GRANTS BASED ON THE ISU RFI LINES

Publications in scientific journals

- 1) Harris, A. J., J. F. Patience, S. M. Lonergan, J. C. M. Dekkers and N. K. Gabler. 2012. Improved nutrient digestibility and retention partially explains feed efficiency gains in pigs selected for low residual feed intake. *J Anim Sci* (Accepted).
- 2) Rakhshandeh, A., J. C. M. Dekkers, B. J. Kerr, T. E. Weber, J. English and N. K. Gabler. 2012. Effect of immune system stimulation and divergent selection for residual feed intake on digestive capacity of the small intestine in growing pigs. *J Anim Sci* (Accepted).
- 3) Mani, V., T. E. Weber, L. H. Baumgard, and N. K. Gabler. 2012. Growth and Development Symposium: Endotoxin, inflammation, and intestinal function in livestock. *J Anim Sci* 90: 1452-1465.
- 4) Cino Ozuna, A.G., R.R.R. Rowland, J.C. Nietfeld, J.C.M. Dekkers, and C.R. Wyatt. 2012. Preliminary findings of a previously unrecognized porcine primary immunodeficiency disorder. *Veterinary Pathology* doi:10.1177/0300985812457790.
- 5) Cai, W.; Kaiser, M. S.; Dekkers, J. C. M. 2012. Bayesian analysis of the effect of selection for residual feed intake on growth and feed intake curves in Yorkshire swine. *J. Anim. Sci.* 90: 127-141.
- 6) Basel, M.T., S. Balivada, A.P. Beck, M.A. Kerrigan, M.M. Pyle, J.C.M. Dekkers, C.R. Wyatt, R.R.R. Rowland, D.E. Anderson, S.H. Bossmann, and D.L. Troyer. 2012. Human Xenografts are not rejected in a naturally occurring immunodeficient porcine line: a human tumor model in pigs. *BioResearch Open Access*. 1: 63-68.
- 7) Qu, L., D. Nettleton, and J.C.M. Dekkers. 2012. Improved estimation of the noncentrality parameter distribution from a large number of *t*-statistics, with applications to false discovery rate estimation in microarray data analysis. *Biometrics*. doi: 10.1111/j.1541-0420.2012.01764.x
- 8) Cai, W, M.S. Kaiser, and J.C.M. Dekkers. 2011. Genetic analysis of longitudinal measurements of performance traits in selection lines for residual feed intake in Yorkshire swine. *J. Anim. Sci.* 89: 1270-1280.
- 9) Boddicker, N., N.K. Gabler, M.E. Spurlock, D. Nettleton and J.C.M. Dekkers. 2011. Effects of ad libitum and restricted feed intake on early production performance and body composition of Yorkshire pigs selected for reduced residual feed intake. *Animal* 5: 1344-1353.
- 10) Cai, W., H. Wu, and J.C.M. Dekkers. 2011. Longitudinal analysis of body weight and feed intake in selection lines for residual feed intake in pigs. *Asian-Aust. J. Anim. Sci.* 24: 17-27
- 11) Boddicker, N., N.K. Gabler, M.E. Spurlock, D. Nettleton and J.C.M. Dekkers. 2011. Effects of ad libitum and restricted feed intake on growth performance and body composition of Yorkshire pigs selected for reduced residual feed intake. *J. Anim. Sci.* 89: 40-51
- 12) Sadler, L.J., A.K. Johnson, S.M. Lonergan, D. Nettleton, and J.C.M. Dekkers. 2011. The effect of selection for residual feed intake on general behavioral activity and the occurrence of lesions in Yorkshire gilts. *J Anim. Sci.* 89: 258-266.
- 13) Smith, R. M., N.K., Gabler, J.M., Young, W., Cai, N.J., Boddicker, Anderson, M.J., Huff-Lonergan, E., J.C., Dekkers, and S.M., Lonergan. 2011. Effects of selection for decreased residual feed intake on composition and quality of fresh pork. *J Anim. Sci.* 89: 192-200.
- 14) Young, J. M., W. Cai, and J.C.M. Dekkers. 2011. Effect of selection for residual feed intake on feeding behavior and daily feed intake patterns in Yorkshire swine. *J Anim. Sci.* 89: 639-647
- 15) Qu, L., D. Nettleton, J.C.M. Dekkers, N. Bacciu. 2010. Variance model selection with application to joint analysis of multiple microarray datasets under false discovery rate control. *Statistics and Its Interface*. 3 477-492.
- 16) Barb, C.R., G.J. Hausman, R. Rekaya, C.A. Lents, S. Lkhagvadorj, L. Qu, W. Cai, O. P. Couture, L.L. Anderson, J.C.M. Dekkers, and C.K. Tuggle. 2010. Gene expression in hypothalamus, liver, and adipose tissues and food intake response to melanocortin-4 receptor agonist in pigs expressing melanocortin-4 receptor mutations. *Physiol. Genomics* 41: 254-268
- 17) Bunter, K.L., W. Cai, D.J. Johnston, and J.C.M. Dekkers. 2010. Selection to lower residual feed intake in pigs produces a correlated response in juvenile insulin-like growth factor-I (IGF-1) concentration. *J. Anim. Sci.* 88: 1973-1981
- 18) Fan, B., S. Lkhagvadorj, W. Cai, J. Young, R. M. Smith, J.C.M. Dekkers, E. Huff-Lonergan, S.M. Lonergan, M.F. Rothschild. 2010. Identification of genetic markers associated with residual feed intake and meat quality traits in the pig. *Meat Science* 4: 645-650

- 19) Couture, O., K. Callenberg, N. Koul, S. Pandit, R. Younes, Z.-L. Hu, J. Dekkers, J.M. Reecy, V. Honavar, C.K. Tuggle. 2009. ANEXdb: An Integrated Animal ANnotation and Microarray EXpression Database. *Mammalian Genome* 20: 768-777
- 20) Lkhagvadorj, S., L. Qu, W. Cai, O.P. Couture, C.R. Barb, G.J. Hausman, D. Nettleton, L.L. Anderson, J.C.M. Dekkers, C.K. Tuggle. 2009. Gene expression profiling of the short-term adaptive response to acute caloric restriction in liver and adipose tissues of pigs differing in feed efficiency. *American Journal of Physiology - Regulatory, Integrative and Comparative Physiology* 298: R494-R507
- 21) Alexander, L.S., A. Qu, S. A. Cutler, A. Mahajan, M. F. Rothschild, W. Cai, J. C. Dekkers, and C. H. Stahl. 2009. A calcitonin receptor (*CALCR*) single nucleotide polymorphism is associated with growth performance and bone integrity in response to dietary phosphorus deficiency. *J. Anim. Sci.* 87: 868-875
- 22) Lkhagvadorj, S., L. Qu, W. Cai, O.P. Couture, C.R. Barb, G.J. Hausman, D. Nettleton, L.L. Anderson, J.C.M. Dekkers, C.K. Tuggle. 2009. Microarray gene expression profiles of fasting induced changes in liver and adipose tissues of pigs expressing the melanocortin-4 receptor D298N variant. *Physiological Genomics* 38: 98-111
- 23) Cai, W., D.S. Casey, and J.C.M. Dekkers. 2007. Selection response and genetic parameters for residual feed intake in Yorkshire swine. *J. Anim. Sci.* 86:287-298
- 24) Casey, D.S., H.S. Stern, and J.C.M. Dekkers. 2005. Identifying errors and factors associated with errors in data from electronic swine feeders. *J. Anim. Sci.* 83: 969-982

Books and Chapters in Books

- 1) Patience, J. F. (Editor). 2012. Feed efficiency in swine. Wageningen Academic Publishers.
- 2) Young, J.M., and J.C.M. Dekkers. 2012. The genetic and biological basis of residual feed intake as a measure of feed efficiency. Chapter 7, Pp. 153-166 In: J.F. Patience (Ed): Feed Efficiency in Swine. Wageningen Academic Publishers, Wageningen, The Netherlands.
- 3) Dekkers, J.C.M., P.K. Mathur, and E.F. Knol. 2010. Genetic Improvement of the Pig. Chapter 16 In: A. Ruvinski and M.F. Rothschild (Eds): Genetics of the Pig. Ed. 2. Pp 390-425 CAB

Publications in non-refereed scientific conference proceedings

- 1) Dekkers, J.C.M., and H. Gilbert. 2010. Genetic aspects of residual feed intake in pigs. 9th World Congress on Genetics Applied to Livestock Production. <http://www.kongressband.de/wcgalp2010/assets/html/0287.htm>
- 2) Gorbach, D, W. Cai, J. Dekkers, J. Young, D. Garrick, R. Fernando, M. Rothschild. 2010. Large-scale SNP association analyses of residual feed intake and its component traits in pigs. 9th World Congress on Genetics Applied to Livestock Production. <http://www.kongressband.de/wcgalp2010/assets/html/0265.htm>
- 3) Young, J., R. Bergsma, E. Knol, J. Patience, J. Dekkers. 2010. Effect of selection for residual feed intake on sow reproductive performance and lactation efficiency. 9th World Congress on Genetics Applied to Livestock Production. <http://www.kongressband.de/wcgalp2010/assets/html/0223.htm>
- 4) Boddicker, N., D. Nettleton, M. Spurlock, N. Gabler, J. Dekkers. 2010. Estimated energy utilization and maintenance energy requirements in pigs selected for reduced residual feed intake. 9th World Congress on Genetics Applied to Livestock Production. <http://www.kongressband.de/wcgalp2010/assets/html/0584.htm>
- 5) Casey, D.S., and J.C.M. Dekkers. 2002. Performance of growing pigs fed using electronic versus commercial feeders. 7th World Congress on Genetics Applied to Livestock Production, Montpellier, France, 10:28.

Abstracts presented at Scientific Meetings

- 1) Cruzen, S. M., A. J. Harris, K. Hollinger, J. T. Selsby, N. K. Gabler, S. M. Lonergan and E. Huff-Lonergan. 2012. Gilts selected for low residual feed intake have potential for decreased protein degradation. Proceedings International Congress of Meat Science and Technology. Montreal, Canada. (First place research paper, PhD student competition)
- 2) Adamic, B.M., A. Rakhshandeh, J.M. Young, D.M. Thekkoot, T.E. Weber, J.C.M. Dekkers, and N.K. Gabler. 2012. Effect of selection for residual feed intake on sow performance I: lactation efficiency and reproductive performance. Midwest Animal Science, abstract # 3012P. <http://adsa.asas.org/midwest/2012/MW2012Abstracts.pdf>
- 3) Rakhshandeh, A., B.M. Adamic, J.M. Young, D.M. Thekkoot, T.E. Weber, J.C.M. Dekkers, M.A. McGuire, and N.K. Gabler. 2012. Effect of selection for residual feed intake on sow performance II: Milk composition. Midwest Animal Science, abstract # 44. <http://adsa.asas.org/midwest/2012/MW2012Abstracts.pdf>

- 4) Grubbs, J.K., A.N. Fritchen, A. Harris, E. Huff-Lonergan, N.K. Gabler, S.M. Lonergan. 2012. Protein profile in mitochondria of pigs selected for residual feed intake. Federation of American Societies for Experimental Biology. Annual Meeting, San Diego, CA. April 21-25.
http://www.fasebj.org/cgi/content/meeting_abstract/26/1/MeetingAbstracts/
- 5) Grubbs, J.K., A.N. Fritchen, A. Harris, E. Huff-Lonergan, N.K. Gabler, S.M. Lonergan. 2012. Reactive oxygen species production in mitochondria of pigs selected for residual feed intake. Federation of American Societies for Experimental Biology. Annual Meeting, San Diego, CA. April 21-25.
http://www.fasebj.org/cgi/content/meeting_abstract/26/1/MeetingAbstracts/
- 6) Harris, A. J., J. F. Patience, S. M. Lonergan, J. C. M. Dekkers and N. K. Gabler. 2012. Improved nutrient digestibility and retention partially explains feed efficiency gains in pigs selected for low residual feed intake. 12th International Symposium on Digestive Physiology of the Pig. May 29-June 1. Keystone, CO.
- 7) Rakhshandeh, A., J. C. M. Dekkers, B. J. Kerr, T. E. Weber, J. English and N. K. Gabler. 2012. Effect of immune system stimulation and divergent selection for residual feed intake on digestive capacity of the small intestine in growing pigs. 12th International Symposium on Digestive Physiology of the Pig. May 29-June 1. Keystone, CO.
- 8) Thekkoot, D.M., R.A. Kemp, and J.C.M. Dekkers. 2012. Genetic parameters for growth performance and residual feed intake in a commercial line of Duroc pigs. Midwest Animal Science, abstract # 61.
<http://adsa.asas.org/midwest/2012/MW2012Abstracts.pdf>
- 9) Arkfeld, E.K., E.R. Benedict, R.C. Johnson, J.M. Young, D.M. Thekkoot, J.K. Grubbs, S.M. Cruzen, N. K. Gabler, J.C.M. Dekkers, S.M. Lonergan, E. Huff-Lonergan. 2012. Composition and quality of carcasses from pigs selected for divergent residual feed intake. Reciprocal Meat Conference.
- 10) Onteru, S.K., D.M. Gorbach, J.M. Young, D.J. Garrick, J. Dekkers and M.F. Rothschild. 2012. Validation of whole genome association analyses for residual feed intake in the pig. The International Plant & Animal Genome XX Conference. January 14-18, 2012, San Diego, California. P624.
- 11) Gorbach, D.M., W. Cai, J.C.M. Dekkers, J.M. Young, D.J. Garrick, R.L. Fernando, and M.F. Rothschild. 2011. Genome-wide association study to determine the genetics underlying residual feed intake and related traits in swine. Gordon Research Conference on Quantitative Genetics and Genomics, Galveston, TX, Feb 20-25.
- 12) Cino Ozuna, A.G., R.R. Rowland, J.C. Nietfeld, J.C. Dekkers, 2011. Suspected primary immune-deficiency in pigs. ACVP Annual meeting, Tennessee.
- 13) Cruzen S.M., P.V. R. Paulino, E. Steadham, E. Huff-Lonergan and S. M. Lonergan. 2011. Calpain and calpastatin activity in porcine longissimus and the red and white portions of the semitendinosus. 57th International Congress of Meat Science and Technology, 7-12 August 2011, Ghent-Belgium
- 14) Young, J.M., D.M. Gorbach, M.F. Rothschild, and J.C.M. Dekkers. 2011. High density SNP analysis of serum IGF-I concentration in Yorkshire pigs selected for residual feed intake. XIX International Plant and Animal Genome Conference. http://www.intl-pag.org/19/abstracts/P03e_PAGXIX_199.html
- 15) Boddicker, N., D.J. Garrick, J. Reecy, B. Rowland, M.F. Rothschild, J.P. Steibel, J.K. Lunney, J.C.M. Dekkers. 2010. International PRRS Symposium. P. 37 at
<http://www.prrssymposium.org/Documents/Proceedings/PrrsSymposiumProceedings2010.PDF>
- 16) Sadler, L.J., A.K. Johnson, S.M. Lonergan, D. Nettleton, J.C.M. Dekkers. 2010. The effect of selection for residual feed intake on general behavioral activity in Yorkshire gilts. Midwest ADSA/ASAS Meeting, Des Moines. Abstract # 3
- 17) Boddicker, N., N. Gabler, M. Spurlock, D. Nettleton, J.C.M. Dekkers. 2010. Estimates of energy utilization and maintenance requirements of pigs selected for residual feed intake. Midwest ADSA/ASAS Meeting, Des Moines. Abstract #78.
- 18) Young, J.M., R. Bergsma, E. Knol, J.F. Patience, J.C.M. Dekkers. 2010. Effect of selection for residual feed intake on sow reproductive performance and efficiency. Midwest ADSA/ASAS Meeting, Des Moines. Abstract #89.
- 19) Gorbach, D.M., W. Cai, J.C.M. Dekkers, J.M. Young, D.J. Garrick, R.L. Fernando, and M.F. Rothschild. 2010. Genetic Analysis Of Residual Feed Intake And Its Components Based On The PorcineSNP60 BeadChip. Plant & Animal Genomes XVIII Conference, P614. http://www.intl-pag.org/18/abstracts/P05n_PAGXVIII_614.html
- 20) Rothschild, M.F., D.M. Gorbach, B. Fan, S.K. Onteru, Z.-Q. Du, D.J. Garrick, R.L. Fernando, K.J. Stalder, and J.C.M. Dekkers. 2010. Applications of new porcine genomic tools to trait discovery and understanding genomic architecture. Plant & Animal Genomes XVIII Conference, W493. http://www.intl-pag.org/18/abstracts/W86_PAGXVIII_614.html

- 21) Gorbach, D.M., W. Cai, J.C.M. Dekkers, J.M. Young, D.J. Garrick, R.L. Fernando, and M.F. Rothschild. 2009. Whole-genome analyses for genes associated with residual feed intake and related traits utilizing the PorcineSNP60 BeadChip. Pig Genome III Conference, United Kingdom
- 22) Boddicker, N., D. Nettleton, N. Gabler, M. Spurlock, and J. C. M. Dekkers. 2009. Performance and carcass composition of pigs selected for residual feed intake on restricted and ad libitum diets. ADSA/ASAS annual meeting. Abstract # 410
- 23) Boddicker, N., N. Gabler, M. Spurlock, and J. C. M. Dekkers. 2009. Growth and Efficiency of Pigs Selected for Residual Feed Intake on Restricted and Ad Libitum Diets. Midwest ADSA/ASAS Meeting, Des Moines.
- 24) Young J. M., W. Cai, and J. C. M. Dekkers. 2009. Effect of selection for residual feed intake on feeding behavior and daily feeding patterns in pigs. ADSA/ASAS annual meeting. Abstract # 411
- 25) Cai W., H. Wu, and J. C. M. Dekkers. 2009. Longitudinal random regression analysis of growth and feed intake in selection lines for residual feed intake in Yorkshire swine. ADSA/ASAS annual meeting. Abstract # 412
- 26) Cai, W., H. Wu, J. C.M. Dekkers. 2009. Longitudinal Analysis of Body Weight and Feed Intake in Selection Lines for Residual Feed Intake in Pigs. Midwest ADSA/ASAS Meeting, Des Moines.
- 27) Qu, L., D. Nettleton, and J. C. M. Dekkers. 2009. Effect of pooling test statistics across genes in permutation analysis of microarray data. Statistical Genetics of Livestock for the Post-Genomic Era Symposium, University of Wisconsin. <http://dysci.wisc.edu/sglpge/posters.html>
- 28) Lkhagvadorj, S., L. Qu, W. Cai, O.P. Couture, C.R. Barb, G.J. Hausman, D. Nettleton, L.L. Anderson, J.C.M. Dekkers, C.K. Tuggle. 2009 Leptin mediates discriminate response to feed restriction in feed efficient pigs. Exp. Biol. Meeting.
- 29) Smith, R.M., J.M. Young, M.J. Anderson, R.C. Johnson, E. Huff-Lonergan, J. Dekkers, S.M. Lonergan. 2009 Influence of selection for reduced residual feed intake on pork quality. Midwest ADSA/ASAS Meeting, Des Moines.
- 30) Young, J.M., W. Cai, and J.C.M. Dekkers. 2009. Effect of selection for residual feed intake on feeding behavior in pigs. Midwest ADSA/ASAS Meeting, Des Moines.
- 31) Dekkers, J.C.M., W. Cai, S. Lkhagvadorj, O. Couture, C.K. Tuggle, D. Nettleton, and L. Anderson. 2008. Genetic aspects of Residual Feed Intake in pigs. 41st Midwest ADSA/ASAS meeting, Des Moines, IA., Abstract 46.
- 32) Lkhagvadorj S., L. Qu, W. Cai, O.P. Couture, Y. Wang, C.R. Barb, G.J. Hausman, R. Rekaya, L.L. Anderson, J.C.M. Dekkers, D.S. Nettleton, and C.K. Tuggle. 2008. Use of Transcriptional Profiling to Understand Genetic Mechanisms Responding to Fasting in Pigs. 41st Midwest ADSA/ASAS meeting, Des Moines, IA, Abstract 113.
- 33) Lkhagvadorj S., Qu L., Cai W., Couture O.P., Wang Y., Barb C.R., Hausman G.J., Rekaya R., Anderson L.L., Dekkers J.C.M., Nettleton D.S., C.K. Tuggle. 2008. Sterol Regulatory Transcription Factor-1: Key regulator of Fasting Response in the Adipose Tissue in Pigs? Experimental Biology Meeting, San Diego, CA. Abstract # 8249
- 34) Qu L., D. Nettleton, and J.C.M. Dekkers. 2008. A novel estimator for the proportion of true null hypotheses based on subsampling with applications to microarray data. 41st Midwest ADSA/ASAS meeting, , Abstract 37.
- 35) Qu L., Nettleton D., Dekkers J.C.M., 2008. Improved Estimation of False Discovery Rates Based on Subsampling with Applications to Microarray Data. Spring Meeting of Eastern North American Region/Int. Biometric Society.
- 36) Qu, L., N. Bacciu, D. Nettleton, and J.C.M. Dekkers. 2008. Model selection in gene-specific mixed linear models for microarray data with application to joint analysis of multiple experiments. Abstract 527. ASAS/ADSA
- 37) Bunter, K.L., W. Cai, and J.C.M. Dekkers. 2007. Relationship of juvenile IGF-I with performance traits in lines selected for residual feed intake. Midwest Animal Science Meeting, Des Moines.
- 38) Qu, L., D. Nettleton, and J.C.M. Dekkers. 2007. An A-optimal statistical design for post-hybridization washing procedures in Affymetrix microarray experiments. Midwest Animal Science Meeting, Des Moines.
- 39) Cai, W., B. Mote, D. Casey, and J. Dekkers. 2006. Selection Lines for Residual Feed Intake in Yorkshire Swine. A.S. Leaflet R2160, Animal Science Research Report, Iowa State University.
- 40) Cai, W., Casey, D., Mote, B. and Dekkers, J. 2006. Phenotypic evaluation of selection lines for residual feed intake in Yorkshire swine. Midwest Animal Science Meeting, Des Moines. P49 in <http://www.asas.org/midwest/2006/2006abstracts.pdf>.
- 41) Couture, O., X. Zhao, S.H. Zhao, J. Recknor, S. Lkhagvadorj, L. Qu, D. Nettleton, J. Dekkers, C.K. Tuggle. Improved annotation of the porcine Affymetrix Genechip and functional comparison to QIAGEN-NRSP8 oligonucleotide array data. Proceedings International Society of Animal Genetics meeting August 2006, Abstract E246, page 25.
- 42) Lkhagvadorj, S., Qu, L., Cai, W., Couture, O., Wang, Y., Barb, R., Hausman, G., Rekaya, R., Anderson, L., Dekkers, J., Nettleton, D. and Tuggle, C. 2006. Use of transcriptional profiling to understand genetic mechanisms controlling feed intake and efficiency in pigs. Proc. Int. Society of Animal Genetics meeting, August 2006, Abstract C532, page 22.

- 43) Qu, L., Nettleton, D. and Dekkers, J.C.M. 2006. Evaluation of common Affymetrix GeneChip preprocessing methods based on performance in statistical tests and the validity of benchmarking datasets. Abstract presented at the 2nd International Symposium on Animal Functional Genomics, Michigan State University.
- 44) Qu, L., Nettleton, D. and Dekkers, J.C.M. 2006. The effect of single nucleotide polymorphisms on one-step Tukeys biweight estimates from affymetrix microarray data. Midwest Animal Science Meeting, Des Moines. P75
- 45) Cai, W., D. Casey, B. Mote, and J. Dekkers. 2005. Selection lines for residual feed intake in Yorkshire swine. Abstract presented at the 2005 Midwest Animal Science meeting, J. Anim. Sci. 83 (Suppl. 1).
- 46) Casey, D.S., and J.C.M. Dekkers. 2002. Differences in performance between growing pigs fed using electronic versus commercial feeders. J. Anim. Sci. 80 (Suppl. 2):46.
- 47) Casey, D.S. and J.C.M. Dekkers. 2001. Methods for editing and adjusting feed intake data from electronic swine feeders. J. Anim. Sci. 79(Suppl. 2):37.
- 48) Casey, D.S. and J.C.M. Dekkers. 2001. A comparison of methods of editing and adjusting feed intake data from electronic swine feeders. J. Anim. Sci. 79 (Suppl. 1):184

Invited Presentations at (Inter)national Scientific Meetings

- 1) Gabler, N.K., J.K. Grubbs, A. Harris, S.M. Cruzen, E. Huff-Lonergan, J.F. Patience, J.C.M. Dekkers, S.M. Lonergan. 2012. The physiological basis defining feed efficiency differences in pigs selected on residual feed intake. ADSA-AMPA-ASAS-CSAS-WSASAS Joint Annual Meeting, Phoenix, AZ.
- 2) Mani, V., T. E. Weber, L. H. Baumgard, and N. K. Gabler. 2011. Growth and Development Symposium: Endotoxin, inflammation, and intestinal function in livestock. ADSA- ASAS Joint Annual Meeting, New Orleans, LA.
- 3) Dekkers, J.C.M. 2010. Genetic and biological aspects of residual feed intake in pigs. World Congress on Genetics Applied to Livestock Production, Germany
- 4) Dekkers, J.C.M., W. Cai, S. Lkhagvadorj, O. Couture, C.K. Tuggle, D. Nettleton, and L. Anderson. 2008. Genetic aspects of Residual Feed Intake in pigs. Midwest Animal Science Meeting, Des Moines.

Presentations at Industry Conferences

- 1) Dekkers, J.C.M. 2011. Genetic and Biological basis of Residual Feed Intake. International conference on feed efficiency in swine. Omaha, NE.
- 2) Dekkers, J.C.M. 2011. Genetic and Biological basis for differences in Feed Efficiency between lines selected for Residual Feed Intake. Leman Swine Conference, St. Paul, MN.
- 3) Dekkers, J.C.M., 2009. Geneticists perspective on improvement of feed efficiency. National Swine Improvement Federation, Nashville, TN.
- 4) Dekkers, J.C.M. 2008. Genetic and biological aspects of residual feed intake. Nat. Swine Impr. Fed.
- 5) Cai, W., D. Casey, and J.C.M. Dekkers. 2006. Selection lines for residual feed intake in Yorkshire pigs. Nat. Swine Impr. Fed
Cai, W., D. Casey, J.C.M. Dekkers. 2006. Selection lines for residual feed intake in Yorkshire pigs. Beef Impr. Fed..

Technical Reports and Industry Articles

- 1) Sadler L., A. Johnson, J. Young, S. Lonergan and J. Dekkers. 2011. Do Yorkshire Gilts Become Habituated to Repeated Weighing Over a Trial? Animal Industry Report. R2635.
- 2) Sadler L., A. Johnson, J. Young, S. Lonergan, J. Dekkers and D. Nettleton. 2011. The Effect of Selection for Residual Feed Intake on Scale Activity in Yorkshire Gilts. Animal Industry Report. R2641.
- 3) Young, J.M., D.M. Gorbach, K.L. Bunter, M.F. Rothschild, and J.C.M. Dekkers. 2011. Genomic analysis of juvenile serum IGF-I concentration in Yorkshire pigs selected for residual feed intake. Iowa State University Animal Industry Reports: R2648.
- 4) Gorbach, D.M., W. Cai, J. Dekkers, J. Young, and M.F. Rothschild. 2011. Understanding feed efficiency and growth in swine through genetic marker studies. Iowa State University Animal Industry Reports: R2645.
- 5) Bunter, K.L., W. Cai, D.J. Johnston, J.C.M. Dekkers 2010. IGF-1 concentration at a young age is associated feed efficiency in pigs. Iowa State Animal Industry report.
- 6) Cai, W., H. Wu, D. Casey, J. Dekkers. 2010. Genetic Analysis of Growth and Feed Intake in Selection Lines for Residual Feed Intake in Pigs by Random Regression Models. Iowa State Animal Industry report.
- 7) Lkhagvadorj, S., L. Qu, W. Cai, O. Couture, L. Anderson, J. Dekkers, D. Nettleton, and C. Tuggle. 2010. Transcriptional Profiling of the Caloric Restriction in Key Metabolic Tissues of Pigs Differing in Feed Efficiency. Iowa State Animal Industry report.

- 8) Young, J., R. Bergsma, E. Knol, J. Patience, J. Dekkers. 2010. Reproductive Performance of Yorkshire Sows Selected for Residual Feed Intake. Iowa State Animal Industry report.
- 9) Sadler, L. J. A. K. Johnson, S. M. Lonergan, J. C. M. Dekkers, and D. Nettleton. 2010. The effect of selection for residual feed intake on general behavioral activity in Yorkshire gilts. Animal Industry Report. R2553.
- 10) Sadler, L. J. A. K. Johnson, S. M. Lonergan, J. C. M. Dekkers, and D. Nettleton. 2010. The effect of selection for residual feed intake on lesion scores in Yorkshire gilts. Animal Industry Report. R2552.
- 11) Boddicker, N., N. Gabler, M. Spurlock, D. Nettleton, and J. C. M. Dekkers. 2009. Growth and Efficiency of Pigs Selected for Residual Feed Intake on Restricted and Ad Libitum Diets. A.S. Leaflet R2453. Iowa State Animal Science Research Report.
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