

## Jack C. M. Dekkers

C.F. Curtiss Distinguished Professor  
Section Leader, Animal Breeding and Genetics  
Department of Animal Science

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### *Education*

B.Sc.	(1982)	Animal Science	Agricultural University, Wageningen, The Netherlands
M.Sc.	(1985)	Animal Science	Agricultural University, Wageningen, The Netherlands
Ph.D.	(1989)	Dairy Science/ Animal Breeding	University of Wisconsin, Madison, Wisconsin
Post-doc	(1989)	Animal Breeding and Genetics	University of Wisconsin, Madison, Wisconsin

### *Employment*

1985 - 1988	<b>Graduate Research Assistant</b> , Univ. of Wisconsin, Madison (Dr. G. Shook) PhD: Economic evaluation of dairy cattle MOET nucleus breeding programs
1989	<b>Post-doctoral Fellow</b> , University of Wisconsin, Madison, WI (Dr. M. Dentine) Research on QTL mapping under the infinitesimal genetic model.
1989 - 1992	<b>Adjunct Professor of Animal Breeding</b> , University of Guelph, Canada Quantitative genetics and breeding strategies with application to dairy cattle. Undergraduate teaching. Fully supported by Can. dairy cattle breed. industry
1992 - 1995	<b>Assistant Professor of Animal Breeding</b> , University of Guelph, Canada Quantitative genetics and breeding strategies with application to dairy cattle. Undergraduate teaching. Fully supported by Can. dairy cattle breeding industry and the Natural Sciences and Engineering Research Council.
1996	<b>Visiting Scientist</b> , Animal Breeding, Agricultural Univ., Wageningen, NL. Sabbatical (4 mo) supported by NATO Fellowship.
1995 - 1997	<b>Associate Professor of Animal Breeding</b> , University of Guelph, Canada Quantitative genetics and breeding strategies with application to dairy cattle. Undergraduate teaching.
1997 - 2002	<b>Associate Professor of Animal Breeding</b> , Iowa State University, Ames, IA Research on QTL mapping, marker-aided selection, breeding strategies, with applications to swine (75%). Graduate and undergraduate teaching (25%).
2002 - 2013	<b>Professor of Animal Breeding</b> , Iowa State University, Ames, IA Research on QTL mapping, marker-aided selection, breeding strategies (75%). Graduate and undergraduate teaching (25%).
2002 - present	<b>Section leader</b> , Animal Breeding and Genetics, Iowa State University, Ames, IA
2013 - present	<b>C.F. Curtiss Distinguished Professor</b> , Iowa State University, Ames, IA Research (75%) on integration of quantitative genetics and genomics; genetic aspects of feed efficiency and health; breeding strategies. Graduate and undergraduate teaching (25%).

***Affiliations***

American Society of Animal Science	American Dairy Science Association	Gamma
Poultry Science Association	World Poultry Science Association	Sigma Delta

***Awards and Honors***

- Distinguished Service Award, National Swine Improvement Federation (2019)
- ISU Gamma Sigma Delta International Award (2016)
- LeClerc Lecturer, University of Maryland (2014)
- C.F. Curtiss Distinguished Professor (2013)
- ISU CALS Team Award for RFI group (group leader) (2012)
- ISU Margaret Ellen White Graduate Faculty Award (2012)
- ISU Gamma Sigma Delta Research Award (2012)
- Rockefeller Prentice Memorial Award in Animal Breeding & Genetics, Amer.Soc.Anim.Sci. (2007)
- A.B. Chapman Lecturer, University of Wisconsin, Madison (2005)
- J. L. Lush Award in Animal Breeding, American Dairy Science Association (2004)
- Outstanding Research Award, College of Agriculture, Iowa State University (2004)
- ADSA/ASAS travelling fellow to European Association of Animal Production (2003)
- Special recognition for quality of promotion dossier, President, Iowa State University (2002)
- Invited paper in Nature Reviews: Genetics (2002, Vol. 3: 22-32).
- Travelling Fellow, Assoc. for Advancement of Animal Breeding and Genetics, Australia (1999).
- NATO Fellowship, Dept. Animal Breeding & Genetics, Agric. Univ., Wageningen (1996)
- New Faculty Support Program Award, Natural Sci. & Engineering Res. Council, Canada (1992)

***Professional Experience*****Editorial activities:**

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|----------------|---|
| 2012 – present | Editor-in-Chief, Genetics Selection Evolution, published by BMC   |
| 2010 – 2012    | Executive Editor, Genetics Selection Evolution, published by BMC  |
| 2004 – 2006    | Editorial Board, J. Animal Science  |
| 2002 – 2006    | Section Editor, Animal Science, British Society of Animal Science   |
| 1998           | Editor for proceedings of conference ‘From Jay Lush to Genomics: Visions for Animal Breeding and Genetics’, Ames, IA, May 16-18.  |
| 1992 - 1998    | Member of Editorial Board of the Journal of Dairy Science   |
| 1992 - present | Reviewer of grant proposals to Natural Sciences and Engineering Research Council of Canada, Dairy Cattle Genetics Research and Development Council of Canada, USDA-BARD, USDA-NRI, Biotechnology and Biological Sciences Research Council of the UK |
| 1989 - present | Peer reviewer of manuscripts for Journal of Animal Science, Journal of Dairy Science, PLoS One, Livestock Science, Genetics, Heredity, Genetical Research, Genetics Selection and Evolution, Animal Genetics, BMC Genomics, and others.             |

**Organization of scientific meetings:**

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|-----------|---|
| 2018      | Scientific Program Chair for session on Breeding Strategies of 9 <sup>th</sup> World Congr. Genetics Appl. Livest. Prod. Vancouver, Canada. |
| 2014      | Scientific Program Chair for session on Breeding Strategies of 9 <sup>th</sup> World Congr. Genetics Appl. Livest. Prod. Vancouver, Canada. |
| 2011-2012 | Chair Gordon Conference on Quantitative Genetics and Bioinformatics   |
| 2009-2011 | Vice Chair Gordon Conference on Quantitative Genetics and Bioinformatics  |
| 2008      | Co-organizer of the Jay Lush symposium, Ames, IA, April, 2008   |
| 2003/2004 | Chair, Genetics and Breeding program cie., 2004 Midwest Animal Sci. meeting.  |
| 1999      | Co-organizer for conference ‘From Jay Lush to Genomics: Visions for Animal Breeding and Genetics’, Ames, IA, May 16-18.                     |

- 1997 Scientific Program Chair for session on Breeding Strategies of 6<sup>th</sup> World Congr. Genetics Appl. Livest. Prod. Armidale, Australia.
- 1994 Assist organization 4<sup>th</sup> Wldl Congr. Genetics Appl. Livest. Prod. Guelph, Canada

**USDA-CSREES Multistate Research Projects:**

- 1999 - 2012 Iowa State rep. swine genetics multi-state project (NC220; NC1004; NC1037).
- 2001 / 2002 Chair of swine genetics multi-state research project (NC220).
- 2001 - 2008 Iowa State representative on NCCC204 multi-state project (Quant. genetics)
- 1998 Chair writing committee joint renewal NC-220 and NC-210 multi-state projects

**Industry service:**

- 2017 Co-organizer NSIF-PRRS joint symposium, Dec. 1-4, Chicago.
- 2003 Chair, organizing committee USDA-IFAFS industry workshop on QTL mapping and marker-assisted selection, Des Moines, Dec. 4, 2004
- 2002 - 2004 Vice-president of National Swine Improvement Federation
- 2000 - 2010 NC-1004 representative National Swine Improvement Federation Board.
- 1996 - present Consultant on programs for genetic improvement of livestock
- 1995 Genetics expert for Federal Task Force on rbST, Agriculture Canada.
- 1994 - 1997 Member of Genetic Evaluation Board of Canada

**Teaching Experience****Undergraduate**

- Livestock&Poultry Breeding (1992 – 1997), University of Guelph, Canada
- Livestock Improvement Through Animal Breeding (1997), ISU
- Issues Facing Animal Science (2000), ISU
- Study Abroad to the Netherlands, 2 weeks, 20 students ('13 and '17), ISU
- Academic advisor for 15-30 undergraduate students (1999 - present), ISU

**Graduate**

- Animal Breeding Strategies (1998, 1999, 2001, 2003, 2005, 2007, 2010, 2013, 2015)
- Advanced Statistical Methods for Animal Breeding, co-instructor (2002)
- Applied Animal Breeding (1999)
- Population&Quantitative Genetics for Breeding: co-instructor '03–'06; instructor '06-present
- Applied Beef and Dairy Cattle Breeding – course coordinator and co-instructor ('12, '15)

**On-line Graduate**

- Introduction to Marker Association Analysis and QTL Detection. Animal Breeding Online, '13,'14,'15,'17,'19.
- Prediction and Control of Inbreeding in Breeding Programs. Animal Breeding Online, '14,'16,'17,'19

**Post-graduate short courses/workshops**

- Breeding program design with genomic selection ('14, University of New England, Australia; 2015, Iowa State University; 2018, University of Guelph) 1-week course, Co-instructor
- Genomic selection in livestock 1-week course, Organizer and co-instructor ('10 ISU, '12 ASAS/ADSA,'13 Quebec City, '15 ISU)
- Use of high-density SNP genotyping data for genetic improvement of livestock (2009) 2-week course. ISU. Organizer and co-instructor.
- Quantitative Genetics with Integration of Molecular Genetics (2008) 2-week NOVA course, University of Helsinki, Finland, Instructor
- Design and economics of animal breeding strategies (2003), ISU, Organizer and instructor
- Applied economic aspects of animal breeding programs (2001) Univ. Guelph, Canada, Instructor
- Quantitative genetics for new technologies in animal breeding (1999), University of New South Wales, Australia, co-instructor

- Organizer Animal Breeding and Genetics summer short courses (2004-2015), ISU

**Industry short courses/workshops**

- Genetic improvement of disease, on-line course for veterinarians, co-instructor (2018)
- CPAB industry short courses (1996-1997), co-instructor, University of Guelph.
- Molecular methods in plant breeding (2000-2003) (½ day co-instructor), Agronomy Dept, ISU
- USDA-IFAFS-NSIF Workshop on Molecular Genetics (2003, 1 day), Des Moines, Iowa
- Training Workshop on QTL mapping and marker-assisted selection, Canadian Center for Swine Improvement (2004, 1 day), Ottawa, Canada

***Graduate Students Advised or Co-advised: 7 MSc, 26 PhD***

***Post-Doctoral Fellows and Research Associates Advised or Co-advised: 27***

***Grants directed or co-directed total \$22,406,264 of which \$9,463,267 as PI***

***Significant Research Contributions***

- Methods for economic evaluation of breeding programs in competitive markets
- Methods for simulation of breeding programs that combine stochastic and deterministic models
- Design and evaluation of dairy breeding programs to capitalise on reproductive technologies
- Analytical methods to derive asymptotic responses to selection on BLUP breeding values that account for the effects of selection on genetic variance
- Effects associated with genetic markers under the infinitesimal genetic model
- Genetic analysis and national genetic evaluation systems for somatic cell score, longevity, and dystocia for dairy cattle.
- Derivation of economic values and development of total economic index for dairy bulls in Canada
- Use of random regression models for analysis of test-day data
- Optimal selection on non-linear profit functions over multiple generations through the use of optimal control theory
- Marker-assisted selection and optimal selection to resolve the conflict between short- versus long-term responses with marker-assisted selection
- Statistical methods for QTL mapping and their application to detect genes and QTL in pigs.
- Evaluation of measures of linkage disequilibrium
- Comparison of methods for linkage disequilibrium analysis
- Use of high-density SNP genotyping for genomic selection, including improvement of crossbred performance
- Implementation of genomic selection using low-density SNP panels
- Experimental evaluation of genomic selection in layer chickens
- Selection index methods for evaluation of marker-assisted and genomic selection
- Genetic and biological aspects of residual feed intake in pigs; development of RFI research consortium.
- Genome-wide association study for host response to PRRS in pigs; Discovery of major QTL on chromosome 4.
- Identification of Severe Combined Immuno-Deficiency (SCID) in pigs and development of SCID pigs for biomedical research.
- Genetics of disease resilience in pigs
- Genetics of resistance to New Castle disease in poultry

**A. *Publications in peer-reviewed scientific journals***

n=300, H-factor (ISI) = 56. Total number of citations = 10,625 Without self citations 9,823 [#]

- A.1. Boettcher, A., A. G. Cino-Ozuna, Y. Solanki, J.E. Wiarda, E. Putz, J.L. Owens, S.A. Crane, A.P. Ahrens, C.L. Loving, J.E. Cunnick, R.R.R. Rowland, S.E. Charley, J.C.M. Dekkers, and C.K. Tuggle 2019. CD3ε+

- cells in pigs with severe combined immunodeficiency due to defects in Artemis. Submitted to *Frontiers in Immunology*, August 2019.
- A.2. Boettcher, A., Li, Y., Ahrens, A., Kiupel, M., Byrne, K., Loving, C., Cino-Ozuna, A.G., Wiarda, J., Adur, M., Schultz, B. and Swanson, J., 2019. Novel engraftment and T cell differentiation of human hematopoietic cells in Art-/IL2RG-/SCID pigs. *bioRxiv*, p.614404.
  - A.3. Sanglard, L.P., Schmitz-Esser, S., Gray, K.A., Linhares, D.C., Yeoman, C.J., Dekkers, J.C., Niederwerder, M.C. and Serão, N.V., 2019. Investigating the relationship between vaginal microbiota and host genetics and their impact on immune response and farrowing traits in commercial gilts. *Journal of Animal Breeding and Genetics*.
  - A.4. Outhouse, Amanda C; Helm, Emma T; Patterson, Brian M; Dekkers, Jack C M; Rauw, Wendy M; Schwartz, Kent J; Gabler, Nicholas K; Huff-Loneragan, Elisabeth; Lonergan, Steven M, 2019. Effect of a dual enteric and respiratory pathogen challenge on swine growth, efficiency, carcass composition, and pork quality. *J. Animal Sci.* 10.1093/jas/skz332
  - A.5. Liu, H., Feye, K.M., Nguyen, Y.T., Rakhshandeh, A., Loving, C.L., Dekkers, J.C., Gabler, N.K. and Tuggle, C.K., 2019. Acute systemic inflammatory response to lipopolysaccharide stimulation in pigs divergently selected for residual feed intake. *BMC genomics*, 20(1), pp.1-24.
  - A.6. Lim, K.S., Dong, Q., Moll, P., Vitkovska, J., Wiktorin, G., Bannister, S., Daujotyte, D., Tuggle, C.K., Lunney, J.K., Plastow, G.S. and Dekkers, J.C., 2019. The effects of a globin blocker on the resolution of 3' mRNA sequencing data in porcine blood. *BMC genomics*, 20(1), pp.1-10.
  - A.7. Wioleta Drobik-Czwarono, Anna Wolc, Kornelia Kucharska, Elżbieta Martyniuk. Genetic basis of resistance to highly pathogenic avian influenza in chicken. **Review article** in Polish. *Scientific Annals of Polish Society of Animal Production*.
  - A.8. Gómez Raya, L., Rauw, W.M. and Dekkers, J., 2019. Autozygosity and genetic differentiation of Landrace and Large White pigs as revealed by the genetic analyses of crossbreds. *Frontiers in Genetics*, 10, p.739.
  - A.9. Walugembe, M., Mushi, J.R., Amuzu-Aweh, E.N., Chiwanga, G.H., Msoffe, P.L., Wang, Y., Saelao, P., Kelly, T., Gallardo, R.A., Zhou, H., Lamont, S.J., Muhairwa, A.P., and Dekkers, J.C.M. 2019. Genetic Analyses of Tanzanian Local Chicken Ecotypes Challenged with Newcastle Disease Virus. *Genes*, 10(7)
  - A.10. Annamalai, T., Lu, Z., Jung, K., Langel, S.N., Tuggle, C.K., Dekkers, J.C., Waide, E.H., Kandasamy, S. and Saif, L.J., 2019. Infectivity of GII. 4 human norovirus does not differ between TB-NK+ severe combined immunodeficiency (SCID) and non-SCID gnotobiotic pigs, implicating the role of NK cells in mediation of human norovirus infection. *Virus research*, 267, pp.21-25.
  - A.11. Colpoys, J., Van Sambeek, D., Bruns, C., Johnson, A., Dekkers, J., Dunshea, F. and Gabler, N., 2019. Responsiveness of swine divergently selected for feed efficiency to exogenous adrenocorticotrophic hormone and glucose challenges. *Domestic animal endocrinology*, 68, pp.32-38.
  - A.12. Mumm, J.M., Díaz, J.A.C., Stock, J.D., Johnson, A.K., Dekkers, J.C., Ramirez, A., Azarpajouh, S. and Stalder, K.J., 2019. Dynamic space utilization for lame and non-lame gestating sows estimated by the lying-standing sequence. *Livestock Science*, 223, pp.1-7.
  - A.13. Nascimento, M., Nascimento, A.C.C., Dekkers, J.C.M. and Serão, N.V.L., 2019. Using quantile regression methodology to evaluate changes in the shape of growth curves in pigs selected for increased feed efficiency based on residual feed intake. *animal*, 13(5), pp.1009-1019.
  - A.14. Saelao, P., Wang, Y., Chanthavixay, G., Gallardo, R.A., Wolc, A., Dekkers, J., Lamont, S.J., Kelly, T. and Zhou, H., 2019. Genetics and Genomic Regions Affecting Response to Newcastle Disease Virus Infection under Heat Stress in Layer Chickens. *Genes*, 10(1), p.61. **[1]**
  - A.15. Wolc, A., Arango, J., Settari, P., Fulton, J.E., O'Sullivan, N.P. and Dekkers, J.C., 2019. Genetics of male reproductive performance in White Leghorns. *Poultry science*, 98(7), pp.2729-2733. **[2]**
  - A.16. Weng, Z., Wolc, A., Su, H., Fernando, R.L., Dekkers, J.C., Arango, J., Settari, P., Fulton, J.E., O'Sullivan, N.P. and Garrick, D.J., 2019. Identification of recombination hotspots and quantitative trait loci for recombination rate in layer chickens. *Journal of animal science and biotechnology*, 10(1), p.20.
  - A.17. Hess, A.S., Lunney, J.K., Abrams, S., Choi, I., Tribble, B.R., Hess, M.K., Rowland, R.R., Plastow, G.S. and **Dekkers, J.C.**, 2018. Identification of factors associated with virus level in tonsils of pigs experimentally infected with porcine reproductive and respiratory syndrome virus. *Journal of animal science*, 97(2), pp.536-547.
  - A.18. Hess, A.S., Tribble, B.R., Hess, M.K., Rowland, R.R., Lunney, J.K., Plastow, G.S. and **Dekkers, J.C.M.**, 2018. Genetic Relationships of Antibody Response, Viremia Level and Weight Gain in Pigs Experimentally

- Infected with Porcine Reproductive and Respiratory Syndrome Virus. *Journal of animal science*. 96(9), pp.3565-3581 [3]
- A.19. Putz, A.M., J.C.S. Harding, M.K. Dyck, PigGen Canada, F. Fortin, G.S. Plastow, and J.C.M. **Dekkers**. 2018. Novel resilience phenotypes from a natural challenge model for disease resilience in wean-to-finish pigs. *Frontiers in Genetics*. doi: 10.3389/fgene.2018.00660. [3]
- A.20. Deist, M.S., Gallardo, R.A., Bunn, D.A., Kelly, T.R., Dekkers, J.C., Zhou, H. and Lamont, S.J., 2018. Novel analysis of the Harderian gland transcriptome response to Newcastle disease virus in two inbred chicken lines. *Scientific reports*, 8(1), p.6558. [5]
- A.21. Putz, A.M., Schwab, C.R., Sewell, A.D., Holtkamp, D.J., Zimmerman, J.J., Baker, K., Serão, N.V. and Dekkers, J.C., 2018. The effect of a porcine reproductive and respiratory syndrome outbreak on genetic parameters and reaction norms for reproductive performance in pigs. *Journal of animal science*, 97(3), pp.1101-1116.
- A.22. Rowland, K., Saelao, P., Wang, Y., Fulton, J., Liebe, G., McCarron, A., Wolc, A., Gallardo, R., Kelly, T., Zhou, H. and **Dekkers**, J., 2018. Association of Candidate Genes with Response to Heat and Newcastle Disease Virus. *Genes*, 9(11), p.560. [1]
- A.23. Wolc, A., Jankowski, T., Arango, J., Settar, P., Fulton, J.E., O'Sullivan, N.P. and Dekkers, J.C.M., 2018. Investigating the genetic determination of clutch traits in laying hens. *Poultry science*, 98(1), pp.39-45.
- A.24. Drobik-Czwaro, W., Wolc, A., Fulton, J.E., Jankowski, T., Arango, J., O'Sullivan, N.P. and **Dekkers**, J., 2018. Genetic basis of resistance to avian influenza in different commercial varieties of layer chickens. *Poultry Science* 97: 3421-3428. doi: 10.3382/ps/pey233 [1]
- A.25. Zhang, J., Kaiser, M.G., Deist, M.S., Gallardo, R.A., Bunn, D.A., Kelly, T.R., **Dekkers**, J.C., Zhou, H. and Lamont, S.J., 2018. Transcriptome analysis in spleen reveals differential regulation of response to newcastle disease virus in two chicken lines. *Scientific reports*, 8(1), p.1278.
- A.26. Rowland, K., Wolc, A., Gallardo, R.A., Kelly, T., Zhou, H., **Dekkers**, J.C. and Lamont, S.J., 2018. Genetic analysis of a commercial egg laying line challenged with Newcastle disease virus. *Frontiers in genetics*, 9. [6]
- A.27. Drobik-Czwaro, W., Wolc, A., Fulton, J.E. and **Dekkers**, J.C., 2018. Detection of copy number variations in brown and white layers based on genotyping panels with different densities. *Genetics Selection Evolution*, 50(1), p.54. [1]
- A.28. Yang, J., Ramamurthy, R.K., Qi, X., Fernando, R.L., **Dekkers**, J.C., Garrick, D.J., Nettleton, D. and Schnable, P.S., 2018. Empirical Comparisons of Different Statistical Models To Identify and Validate Kernel Row Number-Associated Variants from Structured Multi-parent Mapping Populations of Maize. *G3: Genes, Genomes, Genetics*, 8(11), pp.3567-3575. [2]
- A.29. Zhang, C., Kemp, R.A., Stothard, P., Wang, Z., Boddicker, N., Krivushin, K., **Dekkers**, J. and Plastow, G., 2018. Genomic evaluation of feed efficiency component traits in Duroc pigs using 80K, 650K and whole-genome sequence variants. *Genetics Selection Evolution*, 50(1), p.14.
- A.30. Wolc, A., Drobik-Czwaro, W., Fulton, J.E., Arango, J., Jankowski, T. and **Dekkers**, J.C., 2018. Genomic prediction of avian influenza infection outcome in layer chickens. *Genetics Selection Evolution*, 50(1), p.21.
- A.31. Mauch, E.D., Young, J.M., Serão, N.V.L., Hsu, W.L., Patience, J.F., Kerr, B.J., Weber, T.E., Gabler, N.K. and **Dekkers**, J.C.M., 2018. Effect of lower-energy, higher-fiber diets on pigs divergently selected for residual feed intake when fed higher-energy, lower-fiber diets. *Journal of animal science*, 96(4), pp.1221-1236. [3]
- A.32. Wolc, A., Arango, J., Settar, P., Fulton, J.E., O'Sullivan, N.P. and Dekkers, J.C.M., 2018. Genome wide association study for heat stress induced mortality in a white egg layer line. *Poultry science*, 98(1), pp.92-96.
- A.33. Lough, G., Hess, A., Hess, M., Rashidi, H., Matika, O., Lunney, J.K., Rowland, R.R., Kyriazakis, I., Mulder, H.A., **Dekkers**, J.C. and Doeschl-Wilson, A., 2018. Harnessing longitudinal information to identify genetic variation in tolerance of pigs to Porcine Reproductive and Respiratory Syndrome virus infection. *Genetics Selection Evolution*, 50(1), p.50. [3]
- A.34. Wang, Y., Saelao, P., Chanthavixay, K., Gallardo, R., Bunn, D., Lamont, S.J., **Dekkers**, J.C.M., Kelly, T., and Zhou, H.. 2018. Physiological responses to heat stress in two genetically distinct chicken inbred lines. *Poultry Science* 97: 770-780. [4]

- A.35. Toosi, A., Fernando, R.L. and **Dekkers, J.C.**, 2018. Genome-wide mapping of quantitative trait loci in admixed populations using mixed linear model and Bayesian multiple regression analysis. *Genetics Selection Evolution*, 50(1), p.32. [6]
- A.36. Saelao, P., Wang, Y., Chanthavixay, G., Yu, V., Gallardo, R.A., Dekkers, J., Lamont, S.J., Kelly, T. and Zhou, H., 2018. Integrated Proteomic and Transcriptomic Analysis of Differential Expression of Chicken Lung Tissue in Response to NDV Infection during Heat Stress. *Genes*, 9(12), p.579.
- A.37. Saelao, P., Wang, Y., Gallardo, R.A., Lamont, S.J., **Dekkers, J.M.**, Kelly, T. and Zhou, H., 2018. Novel insights into the host immune response of chicken Harderian gland tissue during Newcastle disease virus infection and heat treatment. *BMC veterinary research*, 14(1), p.280. [5]
- A.38. Metodiev, S., Thekkoot, D.M., Young, J.M., Onteru, S., Rothschild, M.F. and Dekkers, J.C.M., 2018. A whole-genome association study for litter size and litter weight traits in pigs. *Livestock Science*, 211, pp.87-97. [1]
- A.39. Zeng, J., Garrick, D., **Dekkers, J.** and Fernando, R., 2018. A nested mixture model for genomic prediction using whole-genome SNP genotypes. *PloS one*, 13(3), p.e0194683 [1]
- A.40. Powell, E.J., Charley, S., Boettcher, A.N., Varley, L., Brown, J., Schroyen, M., Adur, M.K., Dekkers, S., Isaacson, D., Sauer, M. and Cunnick, J., 2018. Creating effective biocontainment facilities and maintenance protocols for raising specific pathogen-free, severe combined immunodeficient (SCID) pigs. *Laboratory animals*, p.0023677217750691. [7]
- A.41. Helm, E.T., Outhouse, A.C., Schwartz, K.J., Lonergan, S.M., Curry, S.M., Dekkers, J.C. and Gabler, N.K., 2018. Metabolic adaptation of pigs to a *Mycoplasma hyopneumoniae* and *Lawsonia intracellularis* dual challenge. *Journal of animal science*, 96(8), pp.3196-3207. [3]
- A.42. Helm, E. T., A. C. Outhouse, K. J. Schwartz, J. C. M. **Dekkers**, S. M. Lonergan, W. M. Rauw, and N. K. Gabler. 2018. Impact of *Mycoplasma hyopneumoniae* and *Lawsonia intracellularis* on the performance of pigs divergently selected for feed efficiency. *Journal of Animal Science* doi:10.2527/tas2017.0054 [6]
- A.43. Waide, E.H., Serão, N.V.L., Schroyen, M., Hess, A., Rowland, R.R.R., Lunney, J.K., Plastow, G. and **Dekkers, J.C.M.**, 2017. Genomic prediction of piglet response to infection with one of two porcine reproductive and respiratory syndrome virus isolates. *Genetics Selection Evolution* 50:3 [2]
- A.44. Drobik-Czwarno, W., Wolc, A., Fulton, J.E., Arango, J., Jankowski, T., O'Sullivan, N.P. and Dekkers, J.C.M., 2017. Identifying the genetic basis for resistance to avian influenza in commercial egg layer chickens. *Animal*, pp.1-9. [2]
- A.45. Zhang, J., Kaiser, M.G., Deist, M.S., Gallardo, R.A., Bunn, D.A., Kelly, T.R., **Dekkers, J.C.**, Zhou, H. and Lamont, S.J., 2018. Transcriptome Analysis in Spleen Reveals Differential Regulation of Response to Newcastle Disease Virus in Two Chicken Lines. *Scientific reports*, 8(1), p.1278. [10]
- A.46. Dunkelberger, J.R., Serão, N.V.L., Weng, Z., Waide, E.H., Niederwerder, M.C., Kerrigan, M.A., Lunney, J.K., Rowland, R.R.R. and **Dekkers, J.C.M.**, 2017. Genomic regions associated with host response to porcine reproductive and respiratory syndrome vaccination and co-infection in nursery pigs. *BMC Genomics* 18: 865. DOI 10.1186/s12864-017-4182-8 [2]
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## B. *Books and Book Chapters*

### Books

- B.1. **Dekkers**, J.C.M., S.J. Lamont, and M.F. Rothschild (Editors). 1999. Proc. Int. Scientific Conference "From Jay Lush to Genomics: Visions for Animal Breeding and Genetics", Ames, IA, May 16-18.

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- B.2. **Dekkers**, J.C., 2018. The use of molecular genetic information in genetic improvement programmes for pigs. In *Achieving sustainable production of pig meat Volume 2* (pp. 37-60). Burleigh Dodds Science Publishing.
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### C. *Patents*

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### D. *Invited Presentations at (Inter)national Scientific Meetings*

- D.1. **Dekkers, J.C.M.** 2019. The impact of new technologies on livestock breeding; what's next? American Society of Animal Science Annual Meeting, Austin, TX.
- D.2. **Dekkers, J.C.M.** 2019. Genetic improvement of animal health. 2019. Plant and Animal Genome. San Diego.
- D.3. **Dekkers, J.C.M.** 2018. Using Genetics to Improve Animal Health. Agricultural Bioscience International Conference, Weifang, China.
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- D.5. **Dekkers, J.C.M.** 2018. The use of genomics in animal breeding. 7<sup>th</sup> Annual Cornell University Plant Breeding Symposium, Cornell University
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- D.7. **Dekkers, J.C.M.** 2018. Training the next generation of animal breeders in the genomics era. NRSP-8 Workshop, Plant and Animal Genome Meetings, San Diego.
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- D.23. **Dekkers, J.C.M.** 2014. Genomic Prediction Strategy and Applications. W365 Plant and Animal Genome meetings, San Diego.
- D.24. Wolc A., Arango J., Settar P., Fulton J. E., O’Sullivan N. P., Preisinger R., Habier D., Fernando R., Garrick D. J., Lamont S. J., and **Dekkers J. C .M.** 2013. Genomic selection in layer chickens outperforms pedigree-based selection. ASAS/ADSA 45th Meeting Midwestern Sectional Scientific Sessions and Business Meeting. 11-13.03.2013 - Des Moines. USA
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- F.2. Tuggle, C.K., and J.C.M. Dekkers. 2019 The Structure and Function of the Pig Genome: Application to PRRSV research. *Proceedings of the North American PRRS Symposium*. Chicago, IL p. 11, Abstract #S02.
- F.3. Lim K.-S., Q, A. Putz, Q. Dong, C.K. Tuggle, M.K. Dyck, PigGen Canada, F. Fortin, J.C.S. Harding, G. Plastow, and J.C.M. Dekkers, 2020. Quantitative genetic analysis of the blood transcriptome of young healthy pigs to improve disease resilience. *Plant and Animal Genome*, 2020.
- F.4. Cheng, J., A. M. Putz, J. C. S. Harding, M. K. Dyck, F. Fortin, G. S. Plastow, and PigGen Canada, and J. C. M. Dekkers. Genetic parameters of the disease resilience traits in wean-to-finish pigs from a Natural Disease Challenge Model. *Banff Swine Symposium*, 2020.
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- F.11. Chen, Y., Laura, L., Ashley, C., Putz, A.M., Lim, K.S., Dyck, M., Fortin, F., Plastow, G.S., Dekkers, J.C. and Harding, J.C., 2019. 59 The Genetic Basis of Natural Antibody Titers and Relationships with Disease Resilience in Pigs. *Journal of Animal Science*, 97(Supplement\_2), pp.35-36.
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- F.342. Jairath, L. and J.C.M. **Dekkers**. 1994. Genetic parameters of functional and true lactational survival, and relationships with milk production and conformation in registered Canadian Holsteins. *J. Dairy Sci.* 77:146 (Suppl. 1)

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- F.356. Wade, K.M., J. Jamrozik, J.C.M. **Dekkers** and E.B. Burnside. 1992. Comparison of stayability parameters using a threshold and linear model. Annual Meeting, Eur. Assoc. Anim. Prod.
- F.357. **Dekkers**, J.C.M. 1992. Theoretical basis for genetic parameters of herd life in dairy cattle. Annual Meeting, Eur. Assoc. Anim. Prod.
- F.358. **Dekkers**, J.C.M. 1991. Structure of breeding programs to capitalize on reproductive technology for genetic improvement. *J. Dairy Sci.* 74:197 (Suppl. 1).
- F.359. Leitch, H.W., C. Smith, J.C.M. **Dekkers**, and E.B. Burnside. 1991. Selection response in closed nucleus breeding schemes with increased reproduction rates. *J. Dairy Sci.* 74:157 (Suppl. 1).
- F.360. Leitch, H.W., C. Smith, J.C.M. **Dekkers**, G.J. Jeon and E.B. Burnside. 1991. Optimum dairy cattle breeding strategies with in vitro embryo production. *J. Dairy Sci.* 74:157 (Suppl.1).
- F.361. **Dekkers**, J.C.M. and G.E. Shook. 1989. Economic evaluation of nucleus breeding schemes for commercial artificial insemination studs. *J. Dairy Sci.* 72:66 (Suppl. 1).
- F.362. **Dekkers**, J.C.M. and G.E. Shook, 1987. Comparison of alternative designs for concluding a selection experiment with a repeat mating design. *J. Dairy Sci.* 70:127 (Suppl. 1).

## **G. Presentations at Industry Conferences**

- G.1. Dekkers J, Waide E, Hess A, Rowland B, Lunney J, Plastow G. 2016. Genetics of host response to PRRS in growing pigs. Banff Pork Seminar Proceedings.
- G.2. Dekkers, J.C.M. 2017. Using genetic selection and genomics to combat infectious disease. PRRS-NSIF International Symposium.
- G.3. Dekkers, J.C.M. 2017. Genetic improvement of resistance to PRRS. Leman Conference, Minneapolis.
- G.4. Dekkers, J.C.M. 2016. Update on the host genetics of resistance to porcine diseases. North American PRRS Symposium,
- G.5. Dekkers, J.C.M. 2015. Genetics of host resistance to PRRS and PCV2. North American PRRS Symposium, Chicago, IL.

- G.6. Serão, NVL, RA Kemp, BE Mote, P Willson, JCS Harding, SC Bishop, GS Plastow, JCM Dekkers. 2015. Genetic Improvement of Sow and Gilt Reproductive Performance via PRRS Immunity. Banff Pork Seminar <https://www.banffpork.ca/proceedings/search/#sthash.DSVbVKdO.dpuf>
- G.7. Seroo, N.V.L., J.C.M. Dekkers. 2015. Genetic Improvement of Sow and Gilt Immunity. National Swine Improvement Annual Meeting. Nashville, TN.
- G.8. Dekkers, J.C.M. 2015. The genetics of selecting for feed efficiency based on RFI. International Conference on Feed Efficiency in Swine. Omaha, NE.
- G.9. Dekkers, J.C.M. 2015. The genetic basis and responses to selection for RFI in pigs: Integrated results from the RFI selection lines at Iowa State University and INRA, France. International Conference on Feed Efficiency in Swine. Omaha, NE.
- G.10. Dekkers, J.C.M. 2015. The genomics of RFI in pigs: Integrated results from the RFI selection lines at Iowa State University and INRA, France. International Conference on Feed Efficiency in Swine. Omaha, NE.
- G.11. Dekkers, J.C.M. 2014. The genetic basis of host response to PRRS in pigs. Leman Pre-conference reproduction conference, Minneapolis, MN.
- G.12. Dekkers, J.C.M. 2014. The genetic basis of host response to PRRS in pigs. Iowa Veterinary Medical Association's Winter Conference, Ames, IA
- G.13. Dekkers, J.C.M. 2013. Discovery and use of SCID pigs. Iowa Branch AALAS fall meeting, Oct 6<sup>th</sup>, Cedar Falls, IA.
- G.14. Mote, B.; Willson, P.; Charagu, P.; Dion, N.; Godbout, D.; Kemp, R. A.; Mathur, P.; Riek, T.; Riese, P.; Sullivan, B.; Plastow, G. S.; Bishop, S. C.; Dekkers, J. C. M. 2013. Enhancing sow health through genomic selection. Banff Pork Seminar Proceedings, Banff, Alberta, Canada, 15-17 January 2013
- G.15. Dekkers, J.C.M. 2013. What do SCID, RFI, and PRRS have in common? Poultry Breeders Roundtable. May, 2013, St. Louis.
- G.16. **Dekkers, J.C.M.** 2012. Advancements in Genetic Resistance to PRRS. Iowa State University Swine Disease Conference, Ames, IA.
- G.17. **Dekkers, J.C.M.** 2012. Genomic Advances to Combat PRRS. Western Canadian Association of Swine Veterinarians, Saskatoon, Saskatchewan, Canada.
- G.18. **Dekkers, J.C.M.** 2012. Implications of Genomics for Pig Health. Canadian Swine Health Board Forum, Winnipeg, Manitoba, Canada.
- G.19. **Dekkers, J.C.M.** 2012. Implications of Genomics for Genetic Improvement Programs Genetic. Banff Pork Seminar. Banff, Alberta, Canada.
- G.20. **Dekkers, J.C.M.** 2012. Genetic Improvement of Feed Efficiency in Pigs. Beef Improvement Federation Workshop, Houston, TX.
- G.21. **Dekkers, J.C.M.** 2011. Genetic and Biological basis of Residual Feed Intake. International conference on feed efficiency in swine. Omaha, NE.
- G.22. **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.
- G.23. **Dekkers, J.C.M.,** 2010. Current Utilization of Genomics Information in Dairy, Pigs and Poultry. NCBECS symposium, Kansas City.
- G.24. **Dekkers, J.C.M.,** 2010. Implementation of Genomic Selection in Pig Breeding Programs. National Swine Improvement Federation annual meeting, Kansas City.
- G.25. **Dekkers, J.C.M.,** 2010. Genomic selection. Illinois Corn Breeding School. Champagne-Urbana, ILL.
- G.26. **Dekkers, J.C.M.,** 2009. Geneticists perspective on improvement of feed efficiency. National Swine Improvement Federation, Nashville, TN.
- G.27. **Dekkers, J.C.M.** 2009. Genomic selection for commercial crossbred performance. European Poultry Genetics Symposium, Poznan, Poland
- G.28. **Dekkers, J.C.M.,** and D. Garrick 2009. On the eve of a revolution in animal breeding and genetics. HyLine Technical School, Dallas Center, IA
- G.29. **Dekkers, J.C.M.,** 2008. Genetic and biological aspects of residual feed intake. National Swine Improvement Federation, Nashville, TN.
- G.30. **Dekkers, J.C.M.** 2007. Methods and Strategies to Map the QTL Landscape. National Poultry Breeders Roundtable. St. Louis, MO.



- G.31. **Dekkers, J.C.M.**, and M.F. Rothschild. 2007. New tools to make genetic improvement. London Swine Conference, London, ON, Canada.
- G.32. Cai, W., D. Casey, and J.C.M. **Dekkers**. 2006. Selection lines for residual feed intake in Yorkshire pigs. National Swine Improvement Federation, Nashville, TN.
- G.33. Cai, W., D. Casey, and J.C.M. **Dekkers**. 2006. Selection lines for residual feed intake in Yorkshire pigs. Beef Improvement Federation, Kansas City.
- G.34. **Dekkers, J.C.M.** 2005. Integration of Molecular Genetic Technology with Quantitative Genetic Technology for Maximizing the Speed of Genetic Improvement. Ensminger School, Guangzhou, China.
- G.35. **Dekkers, J.C.M.**, 2004. Use of Marker Assisted Selection in Industry Breeding Programs. Molecular Genetics Working Group, Canadian Center for Swine Improvement, March 4, 2004, Ottawa, Canada.
- G.36. **Dekkers, J.C.M.**, 2004. Training Course on QTL Mapping and Marker Assisted Selection, Molecular Genetics Working Group, Canadian Center for Swine Improvement, March 4, 5 2004, Ottawa, Canada.
- G.37. **Dekkers, J.C.M.**, 2003. Marker- and gene-assisted selection in livestock. Beef Improvement Federation Annual Meeting. Dec. 6, Kansas City.
- G.38. **Dekkers, J.C.M.** 2003. Principles of QTL Mapping. USDA-IFAFS molecular genetics industry workshop and National Swine Improvement Federation Annual Meeting, Dec, 5,6, Des Moines.
- G.39. **Dekkers, J.C.M.**, J.J. Kim, M. Malek, H. Thomsen, H.K. Lee, H.H. Zhao, and M. Rothschild. 2003. A genome scan to detect QTL affecting growth, composition, and meat quality trait in a Berkshire x Yorkshire cross. USDA-IFAFS molecular genetics industry workshop and National Swine Improvement Federation Annual Meeting, Dec, 5,6, Des Moines.
- G.40. **Dekkers, J.C.M.**, J.J. Kim, J., S. Rodriguez-Zas, J. Beaver, and M. Rothschild. 2003. Joint analysis of the Berkshire x Yorkshire and Berkshire x Duroc crosses for QTL detection. USDA-IFAFS molecular genetics industry workshop and National Swine Improvement Federation Annual Meeting, Dec, 5,6, Des Moines.
- G.41. **Dekkers, J.C.M.**, H. Thomsen, H.K. Lee, M. Malek, and M. Rothschild. 2003. Detection of imprinted QTL in the Berkshire x Yorkshire cross. USDA-IFAFS molecular genetics industry workshop and National Swine Improvement Federation Annual Meeting, Dec, 5,6, Des Moines.
- G.42. **Dekkers, J.C.M.**, 2003. Marker-assisted Selection. USDA-IFAFS molecular genetics industry workshop and National Swine Improvement Federation Annual Meeting, Dec, 5,6, Des Moines.
- G.43. Reecy, J., and J.C.M. **Dekkers**. 2002. Mining the beef gene map. Friday Brown Bagger - Molecular to Management.
- G.44. **Dekkers, J.C.M.** 2002. Integration of QTL Information with Traditional Animal Breeding Programs. National Poultry Breeders Roundtable. May 2-3. St. Louis, Mo.
- G.45. **Dekkers, J.C.M.** 2000. Selection and Biotechnology: the best of both worlds. Proceedings Canadian Centre for Swine Improvement workshop. Canmore, AB, Canada
- G.46. **Dekkers, J.C.M.** 1999. New technologies in animal breeding. National Swine Improvement Federation, Des Moines, November 16-17.
- G.47. **Dekkers, J.C.M.** 1998. National dairy genetics workshop – conference summary and wrap-up. Orlando FL, March 29-31.
- G.48. **Dekkers, J.C.M.** 1998. Optimizing Strategies for Selection on Major Genes. National Poultry Breeders Roundtable. St. Louis, May
- G.49. **Dekkers, J.C.M.**, and P.J. Boettcher. 1997. Genetic improvement of feed efficiency. Canadian Dairy Cattle Breeding workshop. Montreal
- G.50. **Dekkers, J.C.M.** 1997. Genetic improvement of health. Canadian Dairy Cattle Breeding workshop. Montreal
- G.51. **Dekkers, J.C.M.**, L.K. Jairath, Z. Liu, R. Reents, and L.R. Schaeffer. Genetic evaluations for somatic cell count and herd life and their incorporation into the LPI. Canadian Dairy Cattle Breeding Workshop '95. Guelph, March, 1995.
- G.52. **Dekkers, J.C.M.** Breeding for lifetime profitability of dairy cows. Dairy Farmers of Ontario - University of Guelph Seminars. Guelph, June, 1995.
- G.53. **Dekkers, J.C.M.** Canada's Lifetime Profit Index. Presentation to German Herdbook representatives. Guelph, July 26, 1994.
- G.54. **Dekkers, J.C.M.** The Lifetime Profit Index: possible revisions. Cattle Breeding Research Committee Workshop. Guelph, April 7, 1994.

- G.55. **Dekkers, J.C.M.** Breeding for dairy cow profitability: the Canadian experience. British Cattle Breeders Club. Cambridge, UK, January 12, 1994
- G.56. **Dekkers, J.C.M.** Pedigree indexing in Canada. Pedigree indexing workshop, Ottawa, May, 1993.
- G.57. **Dekkers, J.C.M.** Breeding for cow profitability. Dufferin Dairy Day, January 7, 1993.
- G.58. **Dekkers, J.C.M.** Breeding for cow profitability: fine tuning genetic evaluation programs. B.C. Workshops. December 1992.
- G.59. **Dekkers, J.C.M.** Utilizing new technology in animal breeding. Semex U.K. International Dairy Conference. Prestwick, U.K., January 13, 1992.
- G.60. **Dekkers, J.C.M.** Use of population data in animal breeding. Department of Population Medicine, O.V.C., April 10, 1992.
- G.61. **Dekkers, J.C.M.** Lifetime profitability and sire selection. Canadian Association of Animal Breeders, Annual Convention, Niagara-on-the-Lake, Ontario, September 5, 1991.
- G.62. **Dekkers, J.C.M.** Herdlife: economic importance and relationship to culling for production. O.M.M.B. - University of Guelph Workshop, Guelph, May 16, 1991.
- G.63. **Dekkers, J.C.M.** Sire selection strategies for optimum genetic improvement. Milk 2000--Meeting the Challenge. NAGDAI Workshop. Ottawa, May 6, 1991.
- G.64. **Dekkers, J.C.M.** Future breeding strategies for optimum genetic improvement. Western Ontario Winter Workshops. March 1991. (5 presentations).
- G.65. **Dekkers, J.C.M.** Genetic mating programs - opportunities/possibilities/challenges. Genetic Mating Workshop. Hull, Quebec, May 29, 1990.
- G.66. **Dekkers, J.C.M.** Returns from genetic improvement. CAAB Sire Analyst Conference. Calgary, Alberta, April 19, 1990.
- G.67. **Dekkers, J.C.M.** MOET - What is it and does it compete with a traditional AI program. CAAB Sire Analyst Conference. Pewaukee, Wisconsin, May 12, 1989.

## **H. *Papers or Abstracts in Industry Conference Proceedings***

- H.1. Tribble, B.R., Popescu, L.N., **Dekkers, J.**, Lunney, J., Rowland, RRR., 2013. Broadly neutralizing antibodies to porcine reproductive and respiratory syndrome virus. September 14-16. Allen D. Leman Swine Conference, St. Paul, MN.
- H.2. Lunney JK, Abrams S, Choi I, Steibel JP, Arceo M, Ernst CW, Reecy J, Fritz E, **Dekkers JCM**, Boddicker N, Rothschild M, Jiang Z, Pogranichniy R, Kerrigan M, Tribble B, Rowland RRR. 2013. PRRS CAP Host genetics: Characterization of host factors that contribute to PRRS disease resistance and susceptibility. Invited talk at Porcine Reproductive and Respiratory Syndrome (PRRS) Coordinated Agricultural Project (CAP) Wrap-Up Scientific Advisory Board meeting at the National Pork Board June 26, 2013.
- H.3. Abell, C. E., J. C. M. **Dekkers**, and K. J. Stalder. 2013. Understanding genome-enabled selection. Proc. A. D. Leman Swine Conference. University of Minnesota, College of Veterinary Medicine, Minneapolis, MN (p237).
- H.4. Boddicker, N. J., J. K. Lunney, R. R. R. Rowland, J. M. Reecy, N. V. L. Serão, and J. C. M. **Dekkers**. 2013. A Major Gene for Host Response to PRRSv Infection. Proc. A. D. Leman Swine Conference. University of Minnesota, College of Veterinary Medicine, Minneapolis, MN (p181).
- H.5. Dunkelberger, J. R., N. J. Boddicker, J. M. Young, R. R. R. Rowland, and J. C. M. **Dekkers**. 2013. Pigs Selected for Increased Feed Efficiency are less affected by experimental infection with the PRRSv. Proc. A. D. Leman Swine Conference. University of Minnesota, College of Veterinary Medicine, Minneapolis, MN (p186).
- H.6. Hess, A. S., B. R. Tribble, Y. Wang, N. J. Boddicker, R. R. R. Rowland, J. K. Lunney, and J. C. M. **Dekkers** 2013. Factors associated with N-specific IgG response in Piglets experimentally infected with PRRSv. Proc. A. D. Leman Swine Conference. University of Minnesota, College of Veterinary Medicine, Minneapolis, MN (p183).
- H.7. **Dekkers, J.C.M.** 2013. What do SCID, RFI, and PRRS have in common? Poultry Breeders Roundtable. May, 2013, St. Louis.

- H.8. Serão, N. V. L., O. Matika, R. A. Kemp, J. Harding, S. C. Bishop, G. S. Plastow, and J. C. M. **Dekkers**. 2013. GWAS for Reproduction Traits and Antibody Response in PRRSv infected Sows. Proc. A. D. Leman Swine Conference. University of Minnesota, College of Veterinary Medicine, Minneapolis, MN (p185).
- H.9. **Dekkers**, J.C.M. 2007. Methods and Strategies to Map the QTL Landscape. National Poultry Breeders Roundtable. St. Louis, MO.
- H.10. **Dekkers**, J.C.M., and M.F. Rothschild. 2007. New tools to make genetic improvement. London Swine Conference, London, ON, Canada. <http://www.londonswineconference.ca/proceedings.htm>
- H.11. Cai, W., D. Casey, and J.C.M. **Dekkers**. 2006. Selection lines for residual feed intake in Yorkshire pigs. Proc. National Swine Improvement Federation annual meeting.
- H.12. **Dekkers, J.C.M.** 2005. Integration of Molecular Genetic Technology with Quantitative Genetic Technology for Maximizing the Speed of Genetic Improvement. Ensminger School, Guangzhou, China.
- H.13. **Dekkers**, J.C.M., 2003. Marker- and gene-assisted selection in livestock. Proc. Beef Improvement Federation Annual Meeting, 9 pp.
- H.14. **Dekkers**, J.C.M. 2003. Principles of QTL Mapping. Proc. National Swine Improvement Federation Annual Meeting, 14 pp.
- H.15. **Dekkers**, J.C.M., J.J. Kim, M. Malek, H. Thomsen, H.K. Lee, H.H. Zhao, and M. Rothschild. 2003. A genome scan to detect QTL affecting growth, composition, and meat quality trait in a Berkshire x Yorkshire cross. Proc. National Swine Improvement Federation Annual Meeting, 21 pp.
- H.16. Kim, J.-J., J. **Dekkers**, S. Rodriguez-Zas, J. Beever, and M. Rothschild. 2003. Joint analysis of the Berkshire x Yorkshire and Berkshire x Duroc crosses for QTL detection. Proc. National Swine Improvement Federation Annual Meeting, 5 pp.
- H.17. **Dekkers**, J.C.M., H. Thomsen, H.K. Lee, M. Malek, and M. Rothschild. 2003. Detection of imprinted QTL in the Berkshire x Yorkshire cross. Proc. National Swine Improvement Federation Annual Meeting, 17 pp.
- H.18. Rothschild, M.F., Daniel Ciobanu, S. Lonergan, J. **Dekkers**, and K. Stalder. 2003. Identification of Genes for Carcass Merit and Meat Quality in the Pig. Proc. National Swine Improvement Federation Annual Meeting, 5 pp.
- H.19. **Dekkers**, J.C.M., 2003. Marker-assisted Selection. Proc. National Swine Improvement Federation Annual Meeting. 28 pp.
- H.20. **Dekkers**, J.C.M. 2002. Integration of QTL Information with Traditional Animal Breeding Programs. National Poultry Breeders Roundtable. St. Louis, May, 1998 (9 pp.)
- H.21. **Dekkers**, J.C.M. 2000. Selection and Biotechnology: the best of both worlds. Proceedings Canadian Centre for Swine Improvement workshop. Canmore, AB, Canada (5 pp.)
- H.22. **Dekkers**, J.C.M. 1999. New technologies in animal breeding. Proceedings National Swine Improvement Federation, Des Moines, November 16-17 (6 pp).
- H.23. **Dekkers**, J.C.M. 1998. Optimizing Strategies for Selection on Major Genes. National Poultry Breeders Roundtable. St. Louis, May, 1998 (7 pp.)
- H.24. **Dekkers**, J.C.M., L.K. Jairath, Z. Liu, R. Reents, and L.R. Schaeffer. March 1995. Genetic evaluations for somatic cell count and herd life and their incorporation into the LPI. Pp. 195-117 in: Proc. Canadian Dairy Cattle Breeding Workshop '95.
- H.25. **Dekkers**, J.C.M. 1994. Breeding for dairy cow profitability: the Canadian experience. British Cattle Breeders Club. Cambridge, UK, January 12, 1994.
- H.26. **Dekkers**, J.C.M. 1992. Utilizing new technology in cattle breeding. Semex U.K. International Dairy Farming Conference.

## I. *Technical Reports and Industry Articles*

- I.1. Predictability pays off in genomic research. Genome Alberta Livestock Blog, (Geoff Geddes), May 1, 2019 <http://genomealberta.ca/livestock/predictability-pays-off-in-genomic-research.aspx>
- I.2. Protecting Pork: Harnessing genomics to improve livestock resilience. Retaking the Field, SoaR4 <https://supportagresearch.org/our-projects/retaking-the-field/retaking-the-field-volume-4>
- I.3. Deist, M.S., Gallardo, R.A., Bunn, D.A., Kelly, T.R., Dekkers, J., Zhou, H. and Lamont, S.J., 2018. More MHC-like Class IY mRNA Detected in Relatively Resistant Fayoumis than Susceptible Leghorns. Animal Industry Report, 664(1), p.49.

- I.4. Amuzu-Aweh, E.N., Walugembe, M., Kayang, B.B. and Muhairwa, A.P., 2018. Genetic Parameters and Genomic Regions Associated with Growth Rate and Response to Newcastle Disease in Local Chicken Ecotypes in Ghana and Tanzania. *Animal Industry Report*, 664(1), p.58.
- I.5. Azarpajouh, S., Colpoys, J., Dekkers, J., Gabler, N., Huff-Loneragan, E., Lonergan, S., Patience, J.F. and Johnson, A.K., 2017. How has selection for residual feed intake (RFI) affected nursery and finisher pig's feeding behavior and performance? *Animal Science Fact Sheets*, [https://lib.dr.iastate.edu/ans\\_whitepapers/9/](https://lib.dr.iastate.edu/ans_whitepapers/9/)
- I.6. Azarpajouh, S., Colpoys, J., Arkfeld, E., Gabler, N., Johnson, A., Dekkers, J., Huff-Loneragan, E., Lonergan, S., Patience, J. and Stalder, K., 2018. Behavioral Associations during a Novel Object Test and Performance of Barrows Divergently Selected for ResidualFeed Intake. *Animal Industry Report*, 664(1), p.64.
- I.7. Azarpajouh, S., Colpoys, J., Arkfeld, E., Gabler, N., Johnson, A., Dekkers, J., Huff-Loneragan, E., Lonergan, S., Patience, J. and Stalder, K., 2018. Behavioral Associations during a Human Approach Test and Performance of Barrows Divergently Selected for ResidualFeed Intake. *Animal Industry Report*, 664(1), p.63.
- I.8. Lim, K.S., Dong, Q., Moll, P., Vitkovska, J., Wiktorin, G., Bannister, S., Daujotyte, D., Tuggle, C.K. and Dekkers, J., 2018. A Globin Blocker to Increase Sequencing Efficiency for QuantSeq 3'mRNA-Seq in Porcine Blood. *Animal Industry Report*, 664(1), p.73.
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