

Jennifer Minick Bormann

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EMPLOYMENT

07/01/2004 to 06/30/2011 Assistant Professor
07/01/2011 to 06/30/2018 Associate Professor
07/01/2018 to present Professor
 Animal Breeding and Genetics
 Department of Animal Sciences and Industry
 Kansas State University
 75% Teaching, 25% Research

EDUCATION

Ph.D. in Animal Breeding and Genetics, minor in Statistics, Iowa State University,
May 2004
Dissertation: *Fertility in Angus females*
Advisor: Doyle Wilson

M.S. in Animal Science with emphasis in Animal Breeding and Genetics, Oklahoma
State University, December 1999
Thesis: *Milk production of crossbred daughters of high- and low-milk EPD Angus
and Hereford bulls*
Advisor: David Buchanan

B.S. in Animal Science, Iowa State University, May 1997
Graduated with Distinction and Honors
Undergraduate research project: *Differences in maternal behavior between Meishan and
Yorkshire gilts*

TEACHING

Academic Advisor, 53 students

Co-Primary Instructor, Department of Animal Sciences and Industry, Kansas State University
ASI 107, Equine and Companion Animal Lab, 1 credit, 1 to 3 sections, 2005-present

Primary Instructor, Department of Animal Sciences and Industry, Kansas State University
ASI 500, Genetics, 3 credits, 2004-present
ASI 500Z, Genetics, 3 credits, 2005-2009, 2014-present
ASI 510, Animal Breeding Principles, 3 credits, 2007-present

ASI 510Z, Animal Breeding Principles, 3 credits, 2007-present
ASI 602, Equine Breeding and Genetics, 2 credits, 2005-present
ASI 602Z, Equine Breeding and Genetics, 2 credits, 2006-present
ASI 749, Advanced Animal Breeding, 3 credits, 2005-present
Primary Instructor, Kansas State University
GenAg 189 Introduction to University Honors, 1 credit, 2008-2014
Teaching Assistant, Department of Animal Science, Iowa State University
Animal Breeding, 2002
Animal Growth and Development, 2001
Animal Physiology, 1999
Teaching Assistant, Department of Animal Science, Oklahoma State University
Animal Genetics, 1999
Introduction to Animal Science, 1998
Animal Breeding, 1998
Horse Science, 1997
Tutor, Department of Animal Science, Iowa State University
Animal Breeding, 2000
Guest lectures, Kansas State University
Equine color genetics 2010
Equine behavior, 2004
Equine conformation, 2004-2005
Beginning Training, 2005-present
Guest lectures/demonstrations, Iowa State University
Horsemanship and Equitation, 2001
“The Human Animal Bond”, video, College of Veterinary Medicine, 2002

MAJOR PROFESSOR OR CO-MAJOR PROFESSOR

Graduate Research Assistant Layna Bond, M.S. student
Graduate Research Assistant Will Fiske, M.S. student
Graduate Research Assistant Claudia Silvera, M.S. student
Graduate Research Assistant Lane Geiss, thesis title “Development of a feet and leg scoring method and selection tool for improved soundness in Red Angus cattle”, M.S. 2017.
Graduate Teaching Assistant Brady Jensen, thesis title “Genetic parameter estimates for feet and leg traits in Red Angus cattle”, M.S. 2017.
Graduate Research Assistant Lindsey Grimes, thesis title “Influence of performance and genetic data on the sale price of seedstock bulls”, M.S. 2016.
Graduate Research Assistant Kelli Retallick, thesis title “Genetic variance and covariance components for feed intake, average daily gain, and postweaning gain and indices to improve feed efficiency in growing beef cattle”, M.S. 2015.
Graduate Research Assistant Kerri Bates, thesis title “Genetic and phenotypic relationships between temperament, immune function, and carcass traits in beef cattle”, M.S. 2013
Graduate Research Assistant Kari Otteman, thesis title “Relationship between docility and reproduction in heifers”, M.S. 2013.
Graduate Research Assistant Erika Blair, thesis title “Relationship between feed efficiency and

reproductive measurements in beef cattle”, M.S. 2011.

GRADUATE COMMITTEE MEMBER

Graduate Research Assistant Maddie Butler, M.S. student

Graduate Research Assistant Katherine Upshaw, M.S. student

Graduate Research Assistant Justine Henderson, M.S. student

Graduate Research Assistant Devin Jacobs, M.S. student

Graduate Research Assistant Kari White, Ph.D. student

Graduate Research Assistant Cashley Ahlberg, dissertation title “Characterization of water intake in beef cattle: Test length guidelines, water intake prediction, and genetic parameters”, Ph.D. August 2018.

Graduate Research Assistant Dustin Aherin, thesis title “Systems approach to economic risk analysis of *Bos taurus* beef embryo transfer programs through stochastic simulation”, M.S. 2017.

Graduate Research Assistant Heather Bradford, thesis title “Estimation of genetic parameters for udder quality in Hereford cattle”, M.S. 2013.

Graduate Research Assistant Kelly Schiefelbein, thesis title “Estimation of genetic parameters for behavioral assessment scores in Labrador retrievers, German shepherd dogs, and golden retrievers”, M.S. 2012.

Graduate Teaching Assistant Brandon Callis, thesis title “Genetic parameters for calving rate and age at first calving in Hereford heifers”, M.S. 2010.

Graduate Research Assistant Andrea Garmyn, thesis title “Effects of cytoplasmic line on scrotal circumference and semen quality traits in Angus bulls”, M.S. 2007.

Graduate Research Assistant Julie Christopher, thesis title “Comparison of feed efficiency rankings of heifers fed high and low energy diets”, M.S. 2005.

UNDERGRADUATE RESEARCH MENTOR

Undergraduate Honors Program Student Kelsie Hoss, project topic “Factors affecting sale price of bulls”, 2013-2105, Presented at Undergrad Research Showcase, April 2015.

Undergraduate Developing Scholars Student Shai Buelow, project topic “Comparison of residual feed intake and gain in beef”, 2010-2011.

Undergraduate Honors Program Student Jarad Bolsen, project topic “Relationship between sire tenderness EPD and progeny carcass performance”, 2005-2006.

PUBLICATIONS

Refereed Papers (28)

Bates, K.E., R.L. Weaver, J.M. Bormann, D.W. Moser, J.L. Salak-Johnson, C.C.L. Chase, R.K. Peel, H. Van Campen, G.H. Loneragan, J.J. Wagner, P. Bodhireddy, K. Prayaga, and R.M. Enns. Relationships among temperament, immune function, and carcass

- merit in beef cattle. *J. Anim. Sci.* Submitted.
- Aherin, D.G., J.M. Bormann, J.L. Heier Stamm, M.D. MacNeil, and R.L. Weaber. 2018. Decision Making Tools: Stochastic simulation model accounting for the impacts of biological variation on success of bovine embryo transfer programs. *Translation Animal Science*. 2:451-462. doi: 10.1093/tas/txy087.
- Ahlberg, C.M., K. Allwardt, A. Broocks, K. Bruno, L. McPhillips, A. Taylor, C.R. Krehbiel, M. Calvo-Lorenzo, C.J. Richards, S.E. Place, U. DeSilva, D.L. VanOverbeke, R.G. Mateescu, L.A. Kuehn, R. Weaber, J. Bormann, M.M. Rolf. 2018. Environmental effects on water intake and water intake prediction in growing beef cattle. *J. Anim. Sci.* 96:4368-4384. doi: 10.1093/jas/sky267
- Ahlberg, C.M., K. Allwardt, A. Broocks, K. Bruno, L. McPhillips, A. Taylor, C.R. Krehbiel, M. Calvo-Lorenzo, C.J. Richards, S.E. Place, U. DeSilva, D.L. Van Overbeke, R.G. Mateescu, L.A. Kuehn, R.L. Weaber, J.M. Bormann, and M.M. Rolf. 2018. Test duration for water intake, ADG, and DMI in beef cattle. *J. Anim. Sci.* 96:3043-3054. doi:10.1093/jas/sky209.
- Thallman, R.M., L.A. Kuehn, W.M. Snelling, K.J. Retallick, J.M. Bormann, H.C. Freetly, K.E. Hales, G.L. Bennett, R.L. Weaber, D.W. Moser, and M.D. MacNeil. 2018. Reducing the period of data collection for intake and gain to improve response to selection for feed efficiency in beef cattle. *J. Anim. Sci.* 96:854-866. doi:10.1093/jas/skx077.
- Bormann, J.M. and M.M. Rolf. 2018. The use of current events to enhance student learning in agricultural genetics. *NACTA Journal*. 62:89-94.
- Cole, J.B., J.M. Bormann, C.A. Gill, H. Khatib, J.E. Koltas, C. Maltecca, and F. Miglior. 2017. Breeding and Genetics Symposium: Resilience of livestock to changing environments. *J. Anim. Sci.* 95:1777-1779. doi:10.2527/jas.2017.1402.
- Retallick, K.J., J.M. Bormann, R.L. Weaber, M.D. MacNeil, H.L. Bradford, H.C. Freetly, K.E. Hales, D.W. Moser, W.M. Snelling, R.M. Thallman, and L.A. Kuehn. 2017. Genetic (co)variance and breed differences for feed intake and average daily gain to improve feed efficiency in growing cattle. *J. Anim. Sci.* 95:1444-1450. doi:10.2527/jas.2016.1260.
- White, K.L., J.M. Bormann, K.C. Olson, J.R. Jaeger, S. Johnson, B. Downey, D.M. Greiger, J.W. Waggoner, D.W. Moser, and R.L. Weaber. 2016. Phenotypic relationships between docility and reproduction in Angus heifers. *J. Anim. Sci.* 94:483-489. doi:10.2527/jas2015-9327.
- Douthit, T.L., S.L. Schaake, M.R. Hay McCammant, D.M. Grieger, and J.M. Bormann. 2015. Student blogs and journals as assessment tools for faculty-led study abroad trips. *NACTA Journal*. 59(3):213-218.
- Bradford, H.L., D.W. Moser, J. Minick Bormann, and R.L. Weaber. 2015. Estimation of genetic parameters for udder traits in Hereford cattle. *J. Anim. Sci.* 93:2663-2668. doi:10.2527/jas.2014-8858.
- Douthit, T.L., J.M. Bormann, and N.M. Bello. 2014. Assessing the association between hoof thermography and hoof Doppler ultrasonography for the diagnosis of lameness in horses. *J. Equine Vet. Sci.* 34(275-280). doi.org/10.1016/j.jevs.2013.06.005.
- Nafikov, R.A., J.P. Schoonmaker, K.T. Korn, K. Noack, D.J. Garrick, K.J. Koehler, J. Minick Bormann, J.M. Reecy, D.E. Spurlock, and D.C. Beitz. 2014. Polymorphisms in lipogenic genes and milk fatty acid composition in Holstein dairy cattle. *Genomics*. 104:572-81. doi.org/10.1016/j.ygeno.2014.10.001.
- Bates, K.E., R.L. Weaber, J.M. Bormann, D.W. Moser, J.L. Salak-Johnson, C.C.L. Chase, R.K.

- Peel, H. Van Campen, G.H. Loneragan, J.J. Wagner, P. Bodhireddy, K. Prayaga, and R.M. Enns. 2013. Relationships among temperament, immune function, and carcass merit in beef cattle. *Proceedings of the Western Section American Society of Animal Science*. 64:169-173.
- Nafikov, R.A., J.P. Schoonmaker, K.T. Korn, K. Noack, D.J. Garrick, K.J. Koehler, J. Minick-Bormann, J.M. Reecy, D.E. Spurlock, and D.C. Beitz. 2013. Association of polymorphisms in solute carrier family 27, isoform A6 (SLC27A6) and fatty acid-binding protein-3 and fatty acid-binding protein-4 (FABP3 and FABP4) with fatty acid composition of bovine milk. *J. Dairy Sci.* 96:6007-6021. doi.org/10.3168/jds.2013-6703.
- Bormann, J.M., D.W. Moser, and K.E. Bates. 2013. Factors affecting student performance in an undergraduate genetics course. *J. Anim. Sci.* 91:2438-2443. doi:10.2527/jas.2012-5839
- Douthit, T.L., J.M. Kouba, and J.M. Bormann. 2013. A retrospective look at students enrolled in an upper-level horse science class: factors that affect classroom performance. *J. Anim. Sci.* 91:2976-2984. doi:10.2527/jas.2012-5936.
- Nafikov, R.A., J.P. Schoonmaker, K.T. Korn, K. Noack, D.J. Garrick, K.J. Koehler, J. Minick-Bormann, J.M. Reecy, D.E. Spurlock, and D.C. Beitz. 2013. Sterol regulatory element binding transcription factor 1 (SREBF1) polymorphism and milk fatty acid composition. *J. Dairy Sci.* 96:2605-2616. doi.org/10.3168/jds.2012-6075. *J. Dairy Sci.* featured article April 2013.
- Blair, E.E., J. Minick Bormann, D.W. Moser, and T.T. Marston. 2013. Relationship between residual feed intake and female reproductive measurements in heifers sired by high- or low-residual feed intake Angus bulls. *Professional Animal Scientist*. 29:46-50.
- Douthit, T.L., J.M. Bormann, K.C. Gradert, L.W. Lomas, S.F. DeWitt, and J.M. Kouba. 2012. The impact of endophyte-infected fescue consumption on digital circulation and lameness in the distal thoracic limb of the horse. *J. Anim. Sci.* 90:3101-3111. doi:10.2527/jas.2011-4371.
- Bormann, J.M. 2012. Incorporating group problem solving to improve student learning in an agricultural genetics class. *NACTA Journal*. 56:57-59.
- Garmyn, A.J., D.W. Moser, R.A. Christmas, and J. Minick Bormann. 2011. Estimation of genetic parameters and effects of cytoplasmic line on scrotal circumference and semen quality traits in Angus bulls. *J. Anim. Sci.* 89:693-698. doi:10.2527/jas.2010-3534.
- Slough, T.L. and J.M. Bormann. 2011. Field trip to racetrack enhances classroom experience. *NACTA Journal*, 55(4):59-64.
- Bormann, J. Minick, D.W. Moser, and T.T. Marston. 2010. Case Study: Feed intake and performance of heifers sired by high and low residual feed intake Angus bulls. *Professional Animal Scientist*. 26:328-331. doi.org/10.15232/S1080-7446(15)30601-X.
- Bormann, J. M. and D.E. Wilson. 2010. Calving day and age at first calving in Angus heifers. *J. Anim. Sci.* 88:1947-1956. doi:10.2527/jas.2009-2249.
- Bobbe, G., J.A. Minick Bormann, G.L. Lindberg, A.E. Freeman and D.C. Beitz. 2008. Short communication: Estimates of genetic variation of milk fatty acids in U.S. Holstein cows. *J. Dairy Sci.* 91:1209-1213. doi:10.3168/jds.2007-0252.
- Bormann, J.M., L.R. Totir, S.D. Kachman, R.L. Fernando, and D.E. Wilson. 2006. Pregnancy rate and first service conception rate in Angus heifers. *J. Anim. Sci.* 84:2022-2025. doi:10.2527/jas.2005-615.
- Minick, J.A., M.E. Dikeman, E.J. Pollak, and D.E. Wilson. 2004. Heritability and

correlation estimates of Warner-Bratzler shear force and marbling score from Angus-, Charolais-, Hereford-, and Simmental-sired cattle. *Can. J. Anim. Sci.* 84(4):599-609. doi.org/10.4141/A03-060.

Minick, J.A., D.S. Buchanan and S.D. Rupert. 2001. Milk production of crossbred daughters of high- and low-milk EPD Angus and Hereford bulls. *J. Anim. Sci.* 79:1386-1393. doi:10.2527/2001.7961386x.

Scientific Abstracts (39)

Bormann, J.M. and M.M. Rolf. 2017. Current events articles enhance student learning in undergraduate genetics. *NACTA Journal.* 61(Suppl. 1):48(Abstr.).

Rolf, M.M. and J.M. Bormann. 2017. Current event video assignments in an undergraduate genetics course. *NACTA Journal.* 61(Suppl. 1):49(Abstr.).

Bormann, J.M. 2015. The use of current events to enhance student learning in agricultural genetics. *NACTA Journal.* 59(Suppl. 1):25(Abstr.).

Retallick, K.J., J.M. Bormann, R.L. Weaber, M.D. MacNeil, H.L. Bradford, H.C. Freetly, W.M. Snelling, R.M. Thallman, D.W. Moser, and L.A. Kuehn. 2015. Genetic variance and covariance components for feed intake, average daily gain, and postweaning gain in growing beef cattle. *J. Anim. Sci.* 93(E-Suppl. 2):10(Abstr.).

Retallick, K.J., J.M. Bormann, R.L. Weaber, M.D. MacNeil, H.L. Bradford, H.C. Freetly, D.W. Moser, W.M. Snelling, R.M. Thallman, and L.A. Kuehn. 2015. Indices to improve feed efficiency. *J. Anim. Sci.* 93(Suppl. s3):572(Abstr.).

Aherin, D.G., P.J. Ebert, J.R. Shearer, R.L. Weaber, J. M. Bormann, D.W. Moser, and M.D. MacNeil. 2014. Simulation and economic analysis of beef cattle natural service and induced twinning via embryo transfer following AI breeding and two calf management systems. *J. Anim. Sci.* 92(E-Suppl.):69(Abstr.).

Retallick, K.J., T.E. Adcock, T.R. Schultz, J.M. Bormann, R.L. Weaber, D.W. Moser, and M.D. MacNeil. 2014. Maximizing profit in a feedlot enterprise using systems analysis thinking and linear programming. *J. Anim. Sci.* 92(E-Suppl.):456(Abstr.).

Bates, K.E., R.L. Weaber, J.M. Bormann, D.W. Moser, J.L. Salak-Johnson, C.C.L. Chase, R.K. Peel, H. Van Campen, G.H. Loneragan, J.J. Wagner, P. Bodhireddy K. Prayaga, and R.M. Enns. 2013. Relationships among temperament, immune function, and carcass merit in beef cattle. *J. Anim. Sci.* 91(E-Suppl.):xxx(Abstr.).

Bradford, H.L., D.W. Moser, J.M. Bormann, and R.L. Weaber. 2013. Genetic parameters for udder quality in Hereford cattle. *J. Anim. Sci.* 91(E-Suppl. 2):142(Abstr.).

Otteman, K.L., J.M. Bormann, D.W. Moser, and R.L. Weaber. 2013. Docility and heifer pregnancy heritability estimates in Angus heifers. *J. Anim. Sci.* 91(E-Suppl. 2):143(Abstr.).

Otteman, K.L., J.M. Bormann, K.C. Olson, J.R. Jaeger, S. Johnson, B. Downey, D.M. Grieger, J.W. Waggoner, D.W. Moser, and R.L. Weaber. 2013. Phenotypic relationships between docility and reproduction in Angus heifers. *J. Anim. Sci.* 91(E-Suppl. 2):143(Abstr.).

Schaake, S.L., T.L. Douthit, J.M. Bormann, and M.H. McCammant. 2013. Comparison of student blogs at the beginning and end of an international experience. *NACTA Journal.* 57(Suppl. 1):122(Abstr.).

Douthit, T.L., S.L. Schaake, J. M. Bormann, and M.H. McCammant. 2013. Blogging as a tool

- for assessment during an international experience. *NACTA Journal*. 57(Suppl. 1):122(Abstr.).
- Bormann, J.M., D. Moser, and K. Bates. 2013. Factors impacting undergraduate student success in genetics. *J. Anim. Sci.* 91(Suppl. 2):58(Abstr.).
- Schiefelbein, K.M., D. W. Moser, J.M. Bormann, and E.A. Leighton. 2012. Estimation of genetic parameters for behavioral assessment scores in Labrador Retrievers. *J. Anim. Sci.* 90(Suppl.2): 24 (Abstr.).
- Nafikov, R.A., J.P. Schoonmaker, K.T. Korn, K.Noack, D.J. Garrick, K.J. Koehler, J. Minick-Bormann, J.M. Reecy, D.E. Spurlock, and D.C. Beitz. 2010. Association of polymorphisms in GPAT4 and SLC27A6 genes with bovine milk fat percentage and fatty acid composition. *J. Anim. Sci.* 88(E-Suppl. 2):i(Abstr.).
- Bormann, J.M., D.W. Moser, T.T. Marston, and K.C. Olson. 2009. Residual feed intake and reproductive performance of heifers sired by high or low RFI EBV bulls. *J. Anim. Sci.* 87(E-Suppl. 2):18(Abstr.).
- Gradert, K.C., J.M. Bormann, S.F. DeWitt, L.W. Lomas, J.M. Kouba, and T.L. Slough. 2009. The effect of consuming endophyte-infected tall fescue on lameness in the horse. *J. Anim. Sci.* 87(E-Suppl. 2):578(Abstr.).
- Gradert, K.C., J.M. Bormann, S.F. DeWitt, L.W. Lomas, J.M. Kouba, and T.L. Slough. 2009. The use of Doppler ultrasonography to measure vasoconstriction in horses consuming endophyte-infected tall fescue. *J. Anim. Sci.* 87(E-Suppl. 2):243(Abstr.).
- Gradert, K.C., J.M. Bormann, S.F. DeWitt, L.W. Lomas, J.M. Kouba, and T.L. Slough. 2009. The use of thermal imaging to monitor temperature in the hoof of horses consuming endophyte-infected tall fescue. *J. Anim. Sci.* 87(E-Suppl. 2):578(Abstr.).
- Nafikov, R.A., J.P. Schoonmaker, J.M. Reecy, D. Moody Spurlock, J. Minick Bormann, K.J. Koehler and D.C. Beitz. 2009. Polymorphisms in lipogenic genes and variations in milk fatty acid composition in Holstein dairy cows. *J. Anim. Sci.* 87(E-Suppl. 2):45(Abstr.).
- Nafikov, R.A., J.P. Schoonmaker, J.M. Reecy, D. Moody-Spurlock, J. Minick-Borman, K.J. Koehler, and D.C. Beitz. 2009. Genetic regulation of milk fatty acid composition: developing tools for use in selection. *J. Anim. Sci.* 87(e-Suppl. 3): 12(Abstr.).
- Nafikov, R., J. Schoonmaker, J. Reecy, D. Moody-Spurlock, J. Minick-Bormann, K. Koehler, and D. Beitz. 2009. Polymorphisms in SREBP pathway and variations in milk fatt acid composition in Holstein dairy cows. *FASEB*. 23(Suppl):LB429(Abstr.).
- Pacheco, L.A., J.R. Jaeger, J. Minick Bormann, and K.C. Olson. 2009. Relationship between ultrasonically-measured beef cow carcass traits and lifetime productivity. *J. Anim. Sci.* 87(E-Suppl. 3):139(Abstr.).
- Bormann, J.M., D.W. Moser, and T.T. Marston. 2008. Residual feed intake of heifers sired by high or low residual feed intake EBV Angus bulls. *J. Anim. Sci.* 86(Suppl. 3):16(Abstr.).
- Nafikov, R.A., J.P. Schoonmaker, J.M. Reecy, D. Moody Spurlock, J. Minick Bormann, T.J. Knight, K.J. Koehler, and D.C. Beitz. 2008. Genetic regulation of milk fatty acid composition-developing tools for use in selection. *Abst. No. LB695. Expt'l. Biol.* 2008, pg LB429.
- Arnett, A.M., J. M. Bormann, M. E. Dikeman, and D. W. Moser. 2007. Evaluation of the relationship between scrotal circumference and ultrasound intramuscular fat measurements in Angus cattle. *J. Anim. Sci.* 85(Suppl. 1):191(Abstr.).
- Tait, Jr., R., S. Zhang, T. Knight, J. Minick Bormann, D. Beitz, and J. Reecy. 2007. Heritability

- estimates for fatty acid quantity in Angus beef. *J. Anim. Sci.* 85(Suppl. 2):58(Abstr.).
- Bolsen, J.W., J. Minick Bormann, D.W. Moser, and T.T. Marston. 2006. Relationship between sire tenderness EPD and progeny carcass performance. *J. Anim. Sci.* 84(Suppl. 1):166(Abstr.).
- Christopher, J.A., T.T. Marston, J.M. Bormann, R.M. Breiner, and D.A. Llewellyn. 2006. Comparison of feed efficiency rankings of beef heifer calves fed low and high energy diets. *J. Anim. Sci.* 84(Suppl. 2):104(Abstr.).
- Knight, T.J., J.A. Minick, R.G. Tait, Jr., A. Trenkle, D.E. Wilson, G.H. Rouse, J.M. Reecy, D.C. Beitz. 2004. Redesigning beef to be a more heart-healthy food. *Federation of American Societies for Experimental Biology Journal.* 18:A143-A144.
- Minick, J.A. and D.E. Wilson. 2004. Calving day and age at first calving in Angus heifers. *J. Anim. Sci.* 82(Suppl. 1):450(Abstr.).
- Knight, T.J., J.A. Minick, R.G. Tait, Jr., G.H. Rouse, D.E. Wilson, D.R. Strohbehn, J.M. Reecy, A.E. Wertz, A.H. Trenkle, and D.C. Beitz. 2003. Redesigning beef cattle to have a more healthful fatty acid composition. *J. Anim. Sci.* 81(Suppl. 1):87(Abstr.).
- Minick, J.A., D.E. Wilson, M.E. Dikeman and E.J. Pollak. 2001. Heritability and correlation estimates of carcass data from Angus-sired steers. *J. Anim. Sci.* 79(Suppl. 2):11(Abstr.).
- Minick, J.A., D.E. Wilson, G.H. Rouse, A. Hassen, M. Pence and R. Sealock. 2000. Relationship between carcass and reproductive traits in Angus heifers. *J. Anim. Sci.* 78(Suppl. 1):226(Abstr.).
- Buchanan, D.S., O. Cobanoglu, R.P. Wetteman, J.A. Minick and S.D. Rupert. 1999. Reproductive performance of beef cows with divergent genetic merit for milk production. *J. Anim. Sci.* 77(Suppl. 1):135(Abstr.).
- Minick, J.A., D.S. Buchanan and S.D. Rupert. 1999. Milk production of crossbred daughters of high and low milk EPD Angus and Hereford bulls. *J. Anim. Sci.* 77(Suppl. 1):137(Abstr.).
- Rupert, S.D., D.S. Buchanan and J.A. Minick. 1999. Use of milk EPDs to predict differences in milk production of range beef cows. *J. Anim. Sci.* 77(Suppl. 1):137(Abstr.).
- Minick, J.A., D.C. Lay, Jr., S.P. Ford, J.M. Hohenshell, N.J. Biensen and M.E. Wilson. 1997. Differences in maternal behavior between Meishan and Yorkshire gilts. *J. Anim. Sci.* 75(Suppl. 1):38(Abstr.).

Research Reports (26)

- Retallick, K.J., J. Minick Bormann, R.L. Weaber, M.D. MacNeil, H.L. Bradford, H.C. Freetly, W.M. Snelling, M. Thallman, D.W. Moser, and L. Kuehn. 2015. Genetic variance and covariance components for feed intake, average daily gain, and postweaning gain in growing beef cattle. *Kansas Agricultural Experiment Station Research Reports: Vol. 1: Iss. 1.*
- Bates, K.E., R.L. Weaber, J.M. Bormann, D.W. Moser, J.L. Salak-Johnson, C.C.L. Chase, R.K. Peel, H. Van Campen, G.H. Loneragan, J.J. Wagner, P. Bodhireddy, K. Prayaga, and R.M. Enns. 2014. Genetic relationships among temperament, immune function, and

- carcass merit in beef cattle. Kansas State University Beef Cattle Research Report. SRP1101:39-44.
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- Bradford, H.L., D.W. Moser, J.M. Bormann, and R.L. Weaber. 2014. Udder quality is moderately heritable in Hereford cattle. Kansas State University Beef Cattle Research Report. SRP1101:23-25.
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- Minick, J.A., D.E. Wilson and G.H. Rouse. 2000. Ribeye area trends in yearling Angus bulls. Iowa State University Beef Research Report. AS-643:9.
- Minick, J.A., D.E. Wilson and G.H. Rouse. 2000. Ribeye area trends in yearling Angus heifers. Iowa State University Beef Research Report. AS-643:14.
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Book Chapters (3)

- Bormann, J.M. 2015. Equine Genetics. Molecular and Quantitative Animal Genetics. Ed. Hasan Khatib., Wiley Blackwell. Pg 107-120.
- Bormann, J.M. 2010. Data collection and interpretation. Beef sire selection manual, 2nd Edition. National Beef Cattle Evaluation Consortium. Pg. 21-26.
- Bormann, J.M. 2006. Data collection and interpretation. Beef sire selection manual, National Beef Cattle Evaluation Consortium. Pg. 31-35.

Conference Proceedings and Field Day Reports (3)

- Bormann, J. Minick, D.W Moser, and T.T. Marston. 2009. Sire Selection-Interpreting EPD. K-State College of Veterinary Medicine and K-State Beef Cattle Institute Conference on Reproduction, Calving, and Calf Care in Cow-Calf Herds. January 9, 2009. pg 15-24.
- Kouba, J. and J. Minick. 2004. Ranch Horse Management. KLA-KSU Ranch Management Field Day Proceedings. August 24, 2004.
- Minick, J.A., D.E. Wilson. 1999. Efficiency of estrus detection systems in yearling Angus heifers. Iowa State University Rhodes Research and Demonstration Farm Annual Progress Report. ISRF99-39:18.

Popular Press Articles and Bulletins (8)

- Bormann, J.M. 2016. Managing Horses in Hot Weather. Kids n' Horses News. August 2016: 2.
- Bormann, J.M. 2013. DNA Technology for Seedstock Producers. SimTalk. 21(2):48+.
- Bormann, J.M. 2012. DNA Technology for Seedstock Producers. Select Sires 2012 Beef Sire Directory, pg 20-21.
- Bormann, J.M. 2011. DNA Technology for Seedstock Producers. Sirloin Tips Newsletter, Spring 2011, pg 1-3.
- Bormann, J.M. 2007. Tools available to aid selection for fertility. Beef Tips Newsletter, March 2007: 2.
- Bormann, J.M. 2007. Whole genome testing to quantify numerous traits at a young age. Beef Tips Newsletter, July 2007:1.
- Bormann, J.M. 2005. EPDs: Why and How. Piedmontese Profile. 1:5+.
- Bormann, J.M. 2005. EPDs: How do I participate. Piedmontese Profile. 1:13.

PRESENTATIONS

Invited (19)

- “Feed efficiency and reproduction”, presented at the Kansas Simmental Association Annual Meeting, August 12, 2017.
- “Genetic Improvement from Peas to DNA”, presented at Beef Profit Alliance, National Meeting of American Simmental Association and Red Angus Association of America, July 23, 2012.
- “Reading a Sale Catalog”, presented at Bull Management and Fertility Conference, Jan. 6, 2012.
- “The Genetics of Health”, presented at Bull Management and Fertility Conference, Jan 6, 2012.
- “DNA Technologies for Seedstock Producers”, presented at KSU Cattlemen’s Day, March 4, 2011.
- “Setting the Foundation: Basic Concepts and Terms”, presented at the KSU Selecting Beef Cattle in a DNA World Conference, December, 2010
- “Economic considerations of reproduction –an animal breeder’s perspective”, presented at the National Beef Cattle Evaluation Consortium Genetics of Reproduction Symposium, December, 2009.
- “Residual feed intake and reproduction”, presented at KSU Physiology seminar, October, 2009.

- “Residual feed intake”, presented at Brad Z Ranch field day, September, 2009.
- “Residual Feed Intake”, presented at KSU Cattleman’s Day, March 6, 2009.
- “Selecting Bulls for Replacement Heifers and Cows”, presented at the K-State College of Veterinary Medicine and the K-State Beef Cattle Institute Conference on Reproduction, Calving, and Calf Care in Cow-Calf Herds, January 9, 2009.
- “EPD Basics”, presented to the Maine-Anjou Junior National Leadership Conference, August 1, 2008
- “Residual feed intake of heifers sired by high or low residual feed intake EBV Angus bulls”, presented at Midwest ASAS meetings, Genetic Control of Feed Utilization Symposium, March 19, 2008.
- “American Hereford Association Selection Indexes”, presented at the Kansas Polled Hereford Association Annual Meeting, August 11, 2007.
- “Selecting for Carcass Value”, presented at KSU Cattleman’s Day, March, 2007.
- “EPDs: Why and How” presented at the Piedmontese Association of the United States Annual Meeting, June 25, 2005
- “Genetic evaluation of reproduction in Angus cattle”, presented at the National Beef Cattle Evaluation Consortium National Seminar Series, March 14, 2005
- “Ranch horse management”, presented at the KLA-KSU Ranch Management Field day, August 24, 2004
- “Preliminary analysis of data from the Iowa Beef Tenderness and Carcass Evaluation Project”, presented at producer/participator meetings of the Iowa Beef Tenderness and Carcass Evaluation Project, 2000-2002

Scientific Meetings (11)

- “Current events articles enhance student learning in undergraduate genetics”, presented at the NACTA Conference, 2017.
- “Current event video assignments in an undergraduate genetics course”, presented at the NACTA Conference, 2017.
- “The use of current events to enhance student learning in agricultural genetics”, presented at the NACTA Conference, 2015.
- “Factors impacting undergraduate student success in genetics”, presented at the Midwest Section Meetings of the American Society of Animal Science, 2013
- “Residual feed intake and reproductive performance of heifers sired by high or low RFI EBV bulls”, presented at the Annual Meetings of the American Society of Animal Science, 2009
- “Calving day and age at first calving in Angus heifers”, presented at the National Meetings of the American Society of Animal Science, 2004
- “Pregnancy rate in Angus heifers”, presented at the Midwest Section Meetings of the American Society of Animal Science, 2004
- “Heritability and correlation estimates of carcass data from Angus-sired steers”, presented at the Midwest Section Meetings of the American Society of Animal Science, 2001
- “Relationship between carcass and reproductive traits in Angus heifers”, presented at the National Meetings of the American Society of Animal Science, 2000

“Milk production of crossbred daughters of high and low milk EPD Angus and Hereford bulls”, presented at the National Meetings of the American Society of Animal Science, 1999

“Differences in maternal behavior between Meishan and Yorkshire gilts”, presented at the Midwest Section Meetings of the American Society of Animal Science, 1997

Other (9)

“DNA Technologies for Seedstock Producers”, radio interview for “Agriculture Today” on K-State Radio, March 23, 2011.

Featured in “The EPD Shuffle”, by Burt Rutherford, in Beef Magazine, September 2011, pg 54-56.

Featured in “Healthy animals help minimize cost of gain”, by Tim Lundeed, in Feedstuffs, May 18, 2009, pg 12-13.

Featured in “K-State examines effects of breeding for RFI in heifers”, by Mary Lou Peter, in Feedlot, May/June, 2009, pg 36-37.

Featured in “K-State research examines breeding for RFI in heifers”, by Mary Lou Peter, in Farm Talk, April 22, 2009, pg 10.

Featured in “Scrotal vindication”, by Ed Haag, in Angus Beef Bulletin, January 2008, pg 24-29.

Featured in “A Breeder’s Duty”, by Christine Hamilton, in The American Quarter Horse Journal, March 2007, pg 64-69.

Featured in “Tools for selecting for fertility”, in Drovers, April 15, 2007, pg 46

Featured in “Give ranch horse best care”, by Audrey Young, in Kansas Farmer, November, 2004, pg 42.

GRANTS

Rolf, M., J. Bormann, and R. Weaber. Angus Genetics, Inc. Quantitative genetic and genomic analysis of novel traits in American Angus cattle. 8/1/2018-7/31/2022. \$142,397.

2015: \$22,858 Global Food Systems, Co-PI, Development of national genetic evaluation system for feet and leg conformation of beef cattle, with R.L. Weaber and N.M Bello

2014: \$1500 Introduction to University Honors

2013: \$1500 Introduction to University Honors

2013: \$3000 American Simmental Association Bob Walton Graduate Student Award, Co-PI, with Weaber, Moser, MacNeil

2013: \$1428 The College of Agriculture Student Credit Hour Fee Grant for equipment to teach equine labs, PI, with Kouba and Douthit

2012: \$9450 American Angus Association; Phenotypic and genetic relationships between docility and reproduction, collaborator, with R.L. Weaber

2012: \$1500, Introduction to University Honors

2012: \$500, Peer Review of Teaching Program

2011: \$1000, Peer Review of Teaching Program

2011: \$1500, Introduction to University Honors

2010: \$1500, Introduction to University Honors

2009: \$1500, Introduction to University Honors
2009: \$1500, ADVANCE Professional Development
2008: \$1500, Introduction to University Honors
2008: \$1120, ADVANCE Professional Development
2007: \$830, ADVANCE Professional Development
2007: \$5000, American Angus Association; Relationship between marbling and scrotal circumference, co-PI
2006: \$30,000, USDA Special Research Grant for National Beef Cattle Evaluation Consortium, co-PI
2006: \$1000, Peer Review of Teaching Program
2006: \$1150, ADVANCE Professional Development
2006: \$500, College of Ag Honors Program; Relationship between sire tenderness EPD and progeny carcass performance, co-PI
2006: \$15,000, American Angus Association; Genetics of feed efficiency, co-PI
2005: \$6000, Kansas State University Mentoring Fellowship for Women and Minorities in the Sciences and Engineering, co-PI
2005: \$1500, ADVANCE Distinguished Lecture Series award
2005: \$1450, ADVANCE Professional Development grant
2005: total \$300,000, Kansas State University total \$9839, USDA 43.0 Animal Genomics Program of the National Research Initiative (NRI) of the Cooperative State Research, Education, and Extension Service (CSREES) grant, co-PI
2005: \$15,827, USDA Special Research Grant for National Beef Cattle Evaluation Consortium, co-PI
2004: \$6000, Kansas State University Mentoring Fellowship for Women and Minorities in the Sciences and Engineering, co-PI

GRANTS PENDING

M. Rolf, R. Weaber, J. Bormann, J. Gonzalez, and T. O'Quinn. USDA NIFA AFRI Foundational Program. Developing selection tools to enhance cattle hide and beef quality. 7/2018-6/2022. \$500,000

GRANTS APPLIED FOR AND NOT FUNDED

Development of Selection Tools for Resilience to Environmental Stressors in Beef Cattle Breeding Programs, USDA-AFRI Food Security Program Grant, 2016, co-PI, \$998,802, M. Rolf, M. Spangler, S. Kachman, L. Kuehn, R. Weaber, J. Bormann.

Optimal Nutrition and Management in Integrated Production Systems to Improve Feed Efficiency of Growing and Finishing Beef Cattle, USDA-AFRI, 2010, co-PI on 9-state collaboration, total grant request \$4,999,977 over 5 years, K-State portion \$818,437 represents 6 K-State faculty.

Genetic Effects on Feed Intake and Environmental Impact of Beef Cattle, AFRI, 2009, co-PI Animal Health and Disease Research Funds, Section 1433; \$39,600; 2007; Slough, T.L., J. Minick Bormann, S.F. DeWitt, L.W. Lomas, J.M. Kouba; The Effect of Consuming Endophyte-Infected Tall Fescue on Soundness in the Horse AQHA; \$58,279.00; Slough, T.L., J. Minick Bormann, S.F. DeWitt, L.W. Lomas, J.M. Kouba;

The Effect of Consuming Endophyte-Infected Tall Fescue on Digital Circulation and Soundness in the Horse

Animal Health and Disease Research Funds, Section 1433; \$23,756; 2005; 2 years; The genetics of infectious bovine keratoconjunctivitis (pinkeye) and IgA levels in Hereford cattle; with D.W. Moser, L.C. Hollis, M Ameri, and M.J. Wilkerson

Kansas State University Mentoring Fellowship for Women and Minorities in the Sciences and Engineering; \$6000, 1 year; with D.W. Moser

SERVICE TO THE DEPARTMENT AND UNIVERSITY

Pre-Veterinary Club advisor, 2004-2017

Meet with future animal science students 2004-present

Faculty Senate, 2009-2014, 2016-present

Faculty Senate Academic Affairs Committee 2013-2014, 2016-present

Faculty Senate Academic Affairs Co-chair 2016-present

Honor and Integrity Council 2015-2016

Faculty Senate Faculty Affairs Committee 2012-2013

Faculty Senate Committee on Technology 2010-2012

Faculty Senate E-Portfolio Task Force, chair, 2011

Gamma Sigma Delta treasurer 2008-2016

Animal Breeding position search committee chair 2015-2016

Departmental Awards Committee 2012-present

Equine Educational Center planning committee 2007-present

Departmental Distance Education committee 2009-2014

College of Ag Effective Instruction 2008-2014

Search committee University CISO, 2012

RMC transportation committee, 2011

College of Ag Academic Standards Committee member 2005-2007

KSU Purebred Beef Unit planning committee 2007-2008

College of Ag math committee, 2007-2008

Animal behavior search committee 2008

Graduate research assistantship committee 2006

Department head search committee 2006

Promotion and tenure and faculty evaluation task force 2005-2006

Strategic planning facilities committee member, 2005-2006

Judge for quadrathlon presentations, 2005-2008

Beef feedlot research assistant search committee, 2006

Cow/calf nutrition search committee member, 2005

Beef teaching herd manager search committee member, 2005

Speaker for Collegiate Cattlewomen, 2004

SERVICE TO PROFESSION

ASAS Breeding and Genetics Committee 2013-2017, chair 2016-2017

Reviewer, 4-H 2200 Beef Resource Manual
NCERA-199, rewrite committee chair, 2010-2011
Reviewer, Beef Improvement Federation Guidelines, 9th edition, 2009
Midwest section ASAS Breeding and Genetics committee chair, 2009-2011
Midwest section ASAS Breeding and Genetics committee, 2008-2011
Session chair for ASAS Annual Meeting, 2005
Member of NCERA-199, 2004-present; Secretary 2007, 2013; Chairperson, 2008
Reviewer for JAS, 2004-present
Reviewer for USDA-ARS, 2004

HONORS AND AWARDS

KSU College of Agriculture Scholarship of Teaching and Learning Award, 2015
KSU College of Agriculture Teaching Excellence Honoree 2013-2014
KSU College of Ag Faculty of the Semester, 2013
Midwest Section American Society of Animal Science Young Teacher Award, 2013
KSU College of Agriculture Teaching Excellence Honoree 2012-2013
NACTA Teacher Fellow, 2012
Gamma Sigma Delta Outstanding Teacher, 2012
Mortar Board Teaching/Advising Honoree for the College of Ag, 2008
ADVANCE Distinguished Lecture Series Award, 2005

MEMBERSHIP IN ACADEMIC AND PROFESSIONAL SOCIETIES

American Society of Animal Science 1997-present
American Registry of Professional Animal Scientists 2005-present
North American Colleges and Teachers of Agriculture 2004-present
Gamma Sigma Delta 1996, 2007-present

PROFESSIONAL DEVELOPMENT

Beef Improvement Federation Meetings, 2000-2018
American Society of Animal Science Meetings, 1999-2001, 2004-2006, 2009, 2013-2017
Midwest Section Meetings of American Society of Animal Science, 1997, 1999-2005, 2007-11, 2013-2016
NACTA Annual Meeting, 2012-2013, 2015, 2018
ASAS Teaching Workshop, breakout session leader 2013
ASAS Mixed Models Workshop 2013
NBCEC brown bagger seminar series, 2004-2016
NCERA Regional Research Project (Implementation and Strategies for National Beef Cattle Genetic Evaluation) meeting, 2004, 2006-2012, 2014-2016
Faculty Exchange for Teaching Excellence, 2005, 2008-2016
NBCEC Genetics of Reproduction Symposium, 2009
NBCEC Weight Trait Project meeting, 2009, 2011
College of Ag Advising Workshop, 2009
North Central Region Teaching Symposium, 2005, 2007

Teaching seminar, Grades, Assessment and a Focus on Learning, 2008
Intercultural Communication in Academic Advising, 2005
Mission Possible: Excellence in Teaching and Learning, 2005
College of Agriculture Teaching Workshop, 2004-2005, 2008
Beef Improvement Federation Genetic Prediction Workshop, 1999, 2003, 2008
The John M. Airy Beef Cattle Symposium, 2003
“Design and Economics of Animal Breeding Strategies” short course, Iowa State University,
2003
“Breeding for Disease Resistance-Uniting Genetics and Epidemiology short course, Iowa State
University, 2003
“Generalized Linear Mixed Models” short course, Iowa State University, 2001
“MCMC Methods for Quantitative Genetics” short course, Iowa State University, 2000
From Jay L. Lush to Genomics: Visions for Animal Breeding and Genetics, 1999
Southern Section Meetings of American Society of Animal Science, 1999