JAMES M. REECY

DEGREES HELD

Degree		Institution	Year
Ph.D.	Animal Science (Growth and Development)	Purdue University	1995
M.S.	Animal Science (Ruminant Nutrition)	University of Missouri/Columbia	1992
B.S.	Animal Science (Minor: Chemistry)	South Dakota State University	1990

SUMMARY OF PROFESSIONAL EXPERIENCE

July 2009 - Present	Director, Office of Biotechnology	Iowa State University, Office of the Vice President for Research and Economic Development, Ames, IA (Appointment: 50% Administration)
July 2009 - Present	Professor	Iowa State University, Department of Animal Science, Ames, IA (Appointment: 50% Research)
July 2005 - July 2009	Associate Professor	Iowa State University, Department of Animal Science, Ames, IA (Appointment: 75% Research; 25% Teaching)
September 2007 - August 2008	Faculty Improvement Leave	Wellcome Trust Sanger Institute, Hinxton, United Kingdom
1999 - June 2005	Assistant Professor	Iowa State University, Department of Animal Science, Ames, IA (Appointment: 70% Research; 30% Teaching)
1998-1999	Assistant Professor (Non-Tenure Track)	Baylor College of Medicine, Department of Cell Biology, Houston, TX (Appointment: 100% Research)
1997-1998	Instructor	Baylor College of Medicine, Department of Cell Biology, Houston, TX (Appointment: 100% Research)

1996-1997	Post Doctoral Research Associate	Baylor College of Medicine, Department of Cell Biology, Houston, TX (Appointment: 100% Research)

IOWA STATE UNIVERSITY PERSONNEL RECORD

July 2009 - Present	Director, Office of Biotechnology	Office of the Vice President for Research and Economic Development (Appointment: 50% Administration)
July 2009 - Present	Professor	Department of Animal Science (Appointment: 50% Research)
July 2005 - July 2009	Associate Professor	Department of Animal Science (Appointment: 75% Research; 25% Teaching)
February 1999 - June 2005	Assistant Professor	Department of Animal Science (Appointment: 70% Research; 30% Teaching)

Member of Animal Breeding and Genetics Group; Center for Integrated Animal Genomics; Center for Designing Foods to Improve Nutrition; Laurence H. Baker Center for Bioinformatics and Biological Statistics; Muscle Biology Group; Nutritional Sciences Council

Graduate Faculty Member: Animal Breeding and Genetics; Animal Science; Bioinformatics and Computational Biology; Genetics; Molecular, Cellular, and Developmental Biology

Professional Affiliations and Activities

American Association for the Advancement of Science – *member - 1995 - present*

American Society of Animal Science – *member - 1990 - present*

2000-2002	Midwest Section, ASAS Graduate Paper Competition (Chair 2002)
2000-2004	Coordinator of Midwest Section, ASAS Academic Quadrathalon Laboratory Practical Exam
2001-2003	Animal Breeding and Genetics National Program Committee
2004	Coordinator of Midwest Section, ASAS Quadrathalon Competition
2009-Present	Midwest Young Researcher Award committee member

International Society of Animal Genetics – *member - 2000 - present*

American Heart Association – *member - 2000 – present*

SCHOLARSHIP

AWARDS AND HONORS

Mid-Career Achievement in Research, Iowa State University College of Agriculture (2011)
Early Achievement in Research, Midwest American Society of Animal Science (2008)
Early Achievement in Research, Iowa State University College of Agriculture (2003)

Professional Recognitions

1999-Present	Journal of Animal Science – Ad hoc Reviewer
2000-2007	National Research Initiative Competitive Grants Program USDA/CSREES/NRICGP – Ad hoc Reviewer Animal Growth and Nutrient Utilization Program Animal Genetic Mechanisms Program
2000-Present	American Kennel Club Competitive Grants Program – Reviewer
2000-Present	Animal Genetics – Reviewer
2000-Present	Mammalian Genome – Reviewer
2002-Present	American Journal of Physiology – Reviewer
2004-Present	Developmental Dynamics – Reviewer
2004-Present	European Association for Animal Production – Reviewer
2007-Present	Science – Reviewer
2007-Present	Bioinformatics – Reviewer
2007-Present	Physiological Genomic – Reviewer
2008	USDA-NRI Animal Growth and Nutrient Management Review Panel
2008 - Present	Editorial board and section editor of BMC Genetics
2008 - Present	Editorial board of Animal Biotechnology
2009 – Present	Journal of Lipid Research – Reviewer
2015 – Present	Associate Editor of BMC Genomics

SCIENTIFIC PUBLICATIONS

A. Refereed Journal Articles

A1 Loesche JA, Pritchard RH, Reecy JM, Wicks ZW, 3rd: Feeding value of frost-damaged soybeans for lambs. *J Anim Sci* 1992, 70(7):2221-2227.

A2 Reecy JM, Williams JE, Kerley MS, MacDonald RS, Thornton WH, Jr., Wallace LM: Abomasal casein infusion enhances the mitogenic activity of serum from protein-restricted steers. *J Nutr* 1994, 124(1):67-77.

A3 Wallace LLM, Reecy J, Williams JE: The Effect of Ranitidine Hydrochloride on Abomasal Fluid Ph in Young Steers. *Agri-Practice* 1994, 15(6):34-&.

A4 Briley GP, Reecy JM, Grant AL, Bidwell CA: Cloning and expression of the porcine myogenin gene. *Animal Biotechnology* 1995, 6:34-38.

A5 Reecy JM, Bidwell CA, Briley GP, Grant AL: Structure and regulation of the porcine skeletal alpha-actin-encoding gene. *Gene* 1996, 180(1-2):23-28.

A6 Reecy JM, Williams JE, Kerley MS, MacDonald RS, Thornton WH, Jr., Davis JL: The effect of postruminal amino acid flow on muscle cell proliferation and protein turnover. *J Anim Sci* 1996, 74(9):2158-2169.

A7 Reecy JM, Yamada M, Cummings K, Sosic D, Chen CY, Eichele G, Olson EN, Schwartz RJ: Chicken Nkx-2.8: a novel homeobox gene expressed in early heart progenitor cells and pharyngeal pouch-2 and -3 endoderm. *Dev Biol* 1997, 188(2):295-311.

A8 Reecy JM, Bidwell CA, Andrisani OM, Gerrard DE, Grant AL: Multiple regions of the porcine alpha-skeletal actin gene modulate muscle-specific expression in cell culture and directly injected skeletal muscle. *Anim Biotechnol* 1998, 9(2):101-120.

A9 Reecy JM, Li X, Yamada M, DeMayo FJ, Newman CS, Harvey RP, Schwartz RJ: Identification of upstream regulatory regions in the heart-expressed homeobox gene Nkx2-5. *Development* 1999, 126(4):839-849.

A10 Newman CS, Reecy J, Grow MW, Ni K, Boettger T, Kessel M, Schwartz RJ, Krieg PA: Transient cardiac expression of the tinman-family homeobox gene, XNkx2-10. *Mech Dev* 2000, 91(1-2):369-373.

A11 Moses KA, DeMayo F, Braun RM, Reecy JL, Schwartz RJ: Embryonic expression of an Nkx2-5/Cre gene using ROSA26 reporter mice. *Genesis* 2001, 31(4):176-180.

A12 Carson JA, Nettleton D, Reecy JM: Differential gene expression in the rat soleus muscle during early work overload-induced hypertrophy. *FASEB J* 2002, 16(2):207-209.

A13 Paxton C, Zhao H, Chin Y, Langner K, Reecy J: Murine Tbx2 contains domains that activate and repress gene transcription. *Gene* 2002, 283(1-2):117-124.

A14 Reecy JM, Miller SA, Webster M: Recent advances that impact skeletal muscle growth and development research. *Journal of Animal Science* 2002, 81(E. Suppl. 1):E1-E8.

A15 Mishra BP, Reecy JM: Mutations in the limbin gene previously associated with dwarfism in Japanese brown cattle are not responsible for dwarfism in the American Angus breed. *Anim Genet* 2003, 34(4):311-312.

A16 Moody DE, Rosa AN, Reecy JM: Current status of livestock DNA microarrays. *AgBioTech* 2003, 5:1-8.

A17 Potts JK, Echternkamp SE, Smith TP, Reecy JM: Characterization of gene expression in double-muscled and normal-muscled bovine embryos. *Anim Genet* 2003, 34(6):438-444.

A18 Kim KS, Reecy JM, Hsu WH, Anderson LL, Rothschild MF: Functional and phylogenetic analyses of a melanocortin-4 receptor mutation in domestic pigs. *Domest Anim Endocrinol* 2004, 26(1):75-86.

A19 Soller M, Reecy JM: QTL mapping and cloning in beef cattle. *AgBioTech* 2004, 4:1-8.

A20 Washington TA, Reecy JM, Thompson RW, Lowe LL, McClung JM, Carson JA: Lactate dehydrogenase expression at the onset of altered loading in rat soleus muscle. *Journal of applied physiology* 2004, 97(4):1424-1430.

A21 Hu ZL, Dracheva S, Jang W, Maglott D, Bastiaansen J, Rothschild MF, Reecy JM: A QTL resource and comparison tool for pigs: PigQTLDB. *Mamm Genome* 2005, 16(10):792-800.

A22 Hu ZL, Glenn K, Ramos AM, Otieno CJ, Reecy JM, Rothschild MF: Expeditor: a pipeline for designing primers using human gene structure and livestock animal EST information. *J Hered* 2005, 96(1):80-82.

A23 Bao J, Hu ZL, Caragea D, Reecy J, Honavar VG: A tool for collaborative construction of large biological ontologies. *Int Workshop Databas* 2006:191-195.

A24 Reecy JM, Spurlock DM, Stahl CH: Gene expression profiling: insights into skeletal muscle growth and development. *J Anim Sci* 2006, 84 Suppl:E150-154.

A25 Steelman CA, Recknor JC, Nettleton D, Reecy JM: Transcriptional profiling of myostatin-knockout mice implicates Wnt signaling in postnatal skeletal muscle growth and hypertrophy. *FASEB J* 2006, 20(3):580-582.

A26 Tantia MS, Vijh RK, Kumar ST, Mishra B, Reecy JM: Comparative analysis of GDF 8 (myostatin) in Bos indicus and Bos taurus. *DNA Seq* 2006, 17(4):311-313.

A27 Tuggle CK, Dekkers JC, Reecy JM: Integration of structural and functional genomics. *Anim Genet* 2006, 37 Suppl 1:1-6.

A28 Hu ZL, Fritz ER, Reecy JM: AnimalQTLdb: a livestock QTL database tool set for positional QTL information mining and beyond. *Nucleic Acids Res* 2007, 35(Database issue):D604-609.

A29 Hu ZL, Reecy JM: Animal QTLdb: beyond a repository. A public platform for QTL comparisons and integration with diverse types of structural genomic information. *Mamm Genome* 2007, 18(1):1-4.

A30 Karlskov-Mortensen P, Hu ZL, Gorodkin J, Reecy JM, Fredholm M: Identification of 10 882 porcine microsatellite sequences and virtual mapping of 4528 of these sequences. *Anim Genet* 2007, 38(4):401-405.

A31 Zhan M, Jin B, Chen SE, Reecy JM, Li YP: TACE release of TNF-alpha mediates mechanotransduction-induced activation of p38 MAPK and myogenesis. *J Cell Sci* 2007, 120(Pt 4):692-701.

A32 Hughes LM, Bao J, Hu ZL, Honavar V, Reecy JM: Animal trait ontology: The importance and usefulness of a unified trait vocabulary for animal species. *J Anim Sci* 2008, 86(6):1485-1491.

A33 Karlskov-Mortensen P, Hu ZL, Reecy JM, Fredholm M: A data resource of 838 porcine microsatellite sequences with repeat motifs of three to six bases. *Anim Genet* 2008, 39(1):85-86.

A34 Li XP, Hu ZL, Moon SJ, Do KT, Ha YK, Kim H, Byun MJ, Choi BH, Rothschild MF, Reecy JM *et al*: Development of an in silico coding gene SNP map in pigs. *Anim Genet* 2008, 39(4):446-450.

A35 Nettleton D, Recknor J, Reecy JM: Identification of differentially expressed gene categories in microarray studies using nonparametric multivariate analysis. *Bioinformatics* 2008, 24(2):192-201.

A36 Hu ZL, Bao J, Reecy JM: CateGOrizer: a web-based program to batch analyze ontology classification categories. *Jounral of Bioinformatics* 2008, 9(2):108-112.

A37 Taylor CF, Field D, Sansone SA, Aerts J, Apweiler R, Ashburner M, Ball CA, Binz PA, Bogue M, Booth T *et al*: Promoting coherent minimum reporting guidelines for biological and biomedical investigations: the MIBBI project. *Nat Biotechnol* 2008, 26(8):889-896.

A38 Zhang S, Knight TJ, Reecy JM, Beitz DC: DNA polymorphisms in bovine fatty acid synthase are associated with beef fatty acid composition. *Anim Genet* 2008, 39(1):62-70.

A39 Alexander LJ, Kuehn LA, Smith TP, Matukumalli LK, Mote B, Koltes JE, Reecy J, Geary TW, Rule DC, Macneil MD: A Limousin specific myostatin allele affects longissimus muscle area and fatty acid profiles in a Wagyu-Limousin F2 population. *J Anim Sci* 2009, 87(5):1576-1581.

A40 Bovine Genome S, Analysis C, Elsik CG, Tellam RL, Worley KC, Gibbs RA, Muzny DM, Weinstock GM, Adelson DL, Eichler EE *et al*: The genome sequence of taurine cattle: a window to ruminant biology and evolution. *Science* 2009, 324(5926):522-528.

A41 Chelh I, Meunier B, Picard B, Reecy MJ, Chevalier C, Hocquette JF, Cassar-Malek I: Molecular profiles of Quadriceps muscle in myostatin-null mice reveal PI3K and apoptotic pathways as myostatin targets. *BMC Genomics* 2009, 10:196.

A42 Couture O, Callenberg K, Koul N, Pandit S, Younes R, Hu ZL, Dekkers J, Reecy J, Honavar V, Tuggle C: ANEXdb: an integrated animal ANnotation and microarray EXpression database. *Mamm Genome* 2009, 20(11-12):768-777.

A43 Elsik CG, Tellam RL, Worley KC, Gibbs RA, Muzny DM, Weinstock GM, Adelson DL, Eichler EE, Elnitski L, Guigo R *et al*: The genome sequence of taurine cattle: a window to ruminant biology and evolution. *Science* 2009, 324(5926):522-528.

A44 Koltes JE, Hu ZL, Fritz E, Reecy JM: BEAP: The BLAST Extension and Alignment Program- a tool for contig construction and analysis of preliminary genome sequence. *BMC Res Notes* 2009, 2:11.

A45 Koltes JE, Mishra BP, Kumar D, Kataria RS, Totir LR, Fernando RL, Cobbold R, Steffen D, Coppieters W, Georges M *et al*: A nonsense mutation in cGMP-dependent type II protein kinase (PRKG2) causes dwarfism in American Angus cattle. *Proc Natl Acad Sci U S A* 2009, 106(46):19250-19255.

A46 Piontkivska H, Yang MQ, Larkin DM, Lewin HA, Reecy J, Elnitski L: Cross-species mapping of bidirectional promoters enables prediction of unannotated 5' UTRs and identification of species-specific transcripts. *BMC Genomics* 2009, 10:189.

A47 Schneider MJ, Tait RG, Jr., Busby WD, Reecy JM: An evaluation of bovine respiratory disease complex in feedlot cattle: Impact on performance and carcass traits using treatment records and lung lesion scores. *J Anim Sci* 2009, 87(5):1821-1827.

A48 White JP, Reecy JM, Washington TA, Sato S, Le ME, Davis JM, Wilson LB, Carson JA: Overload-induced skeletal muscle extracellular matrix remodelling and myofibre growth in mice lacking IL-6. *Acta Physiol (Oxf)* 2009, 197(4):321-332.

A49 Zhang S, Knight TJ, Reecy JM, Wheeler TL, Shackelford SD, Cundiff LV, Beitz DC: Associations of polymorphisms in the promoter I of bovine acetyl-CoA carboxylase-alpha gene with beef fatty acid composition. *Anim Genet* 2009.

A50 Dodson MV, Guan LL, Fernyhough ME, Mir PS, Bucci L, McFarland DC, Novakofski J, Reecy JM, Ajuwon KM, Thompson DP *et al*: Perspectives on the formation of an interdisciplinary research team. *Biochem Biophys Res Commun* 2010, 391(2):1155-1157.

A51 Dodson MV, Hausman GJ, Guan L, Du M, Rasmussen TP, Poulos SP, Mir P, Bergen WG, Fernyhough ME, McFarland DC *et al*: Lipid metabolism, adipocyte depot physiology and utilization of meat animals as experimental models for metabolic research. *Int J Biol Sci* 2010, 6(7):691-699.

A52 Dodson MV, Hausman GJ, Guan L, Du M, Rasmussen TP, Poulos SP, Mir P, Bergen WG, Fernyhough ME, McFarland DC *et al*: Skeletal muscle stem cells from animals I. Basic cell biology. *Int J Biol Sci* 2010, 6(5):465-474.

A53 Dodson MV, Jiang Z, Chen J, Hausman GJ, Guan le L, Novakofski J, Thompson DP, Lorenzen CL, Fernyhough ME, Mir PS *et al*: Allied industry approaches to alter intramuscular fat content and composition in beef animals. *J Food Sci* 2010, 75(1):R1-8.

A54 Dodson MV, Jiang Z, Chen J, Hausman GJ, Guan LL, Novakofski J, Thompson DP, Lorenzen CL, Fernyhough ME, Mir PS *et al*: Allied Industry Approaches to Alter Intramuscular Fat Content and Composition in Beef Animals. *Journal of Food Science* 2010, 75(1):R1-R8.

A55 Garbe JR, Elsik CG, Antoniou E, Reecy JM, Clark KJ, Venkatraman A, Kim JW, Schnabel RD, Michael Dickens C, Wolfinger RD *et al*: Development and application of bovine and porcine oligonucleotide arrays with protein-based annotation. *J Biomed Biotechnol* 2010, 2010:453638.

A56 Gorbach DM, Makgahlela ML, Reecy JM, Kemp SJ, Baltenweck I, Ouma R, Mwai O, Marshall K, Murdoch B, Moore S *et al*: Use of SNP genotyping to determine pedigree and breed composition of dairy cattle in Kenya. *J Anim Breed Genet* 2010, 127(5):348-351.

A57 Lunney JK, Fritz ER, Reecy JM, Kuhar D, Prucnal E, Molina R, Christopher-Hennings J, Zimmerman J, Rowland RR: Interleukin-8, interleukin-1beta, and interferon-gamma levels are linked to PRRS virus clearance. *Viral Immunol* 2010, 23(2):127-134.

A58 Rachagani S, Cheng Y, Reecy JM: Myostatin genotype regulates muscle-specific miRNA expression in mouse pectoralis muscle. *BMC Res Notes* 2010, 3:297.

A59 Schneider MJ, Tait RG, Jr., Ruble MV, Busby WD, Reecy JM: Evaluation of fixed sources of variation and estimation of genetic parameters for incidence of bovine respiratory disease in preweaned calves and feedlot cattle. *J Anim Sci* 2010, 88(4):1220-1228.

A60 Zhang S, Knight TJ, Reecy JM, Wheeler TL, Shackelford SD, Cundiff LV, Beitz DC: Associations of polymorphisms in the promoter I of bovine acetyl-CoA carboxylase-alpha gene with beef fatty acid composition. *Anim Genet* 2010, 41(4):417-420.

A61 Cheng Y, Rachagani S, Dekkers JC, Mayes MS, Tait R, Reecy JM: Mapping genetic loci that interact with myostatin to affect growth traits. *Heredity (Edinb)* 2011, 107(6):565-573.

A62 Garmyn AJ, Hilton GG, Mateescu RG, Morgan JB, Reecy JM, Tait RG, Jr., Beitz DC, Duan Q, Schoonmaker JP, Mayes MS *et al*: Estimation of relationships between mineral concentration and fatty acid composition of longissimus muscle and beef palatability traits. *J Anim Sci* 2011, 89(9):2849-2858.

A63 Hu ZL, Ramos AM, Humphray SJ, Rogers J, Reecy JM, Rothschild MF: Use of Genome Sequence Information for Meat Quality Trait QTL Mining for Causal Genes and Mutations on Pig Chromosome 17. *Frontiers in genetics* 2011, 2:43.

A64 Kataria RS, Tait RG, Jr., Kumar D, Ortega MA, Rodiguez J, Reecy JM: Association of toll-like receptor four single nucleotide polymorphisms with incidence of infectious bovine keratoconjunctivitis (IBK) in cattle. *Immunogenetics* 2011, 63(2):115-119.

A65 Kizilkaya K, Tait RG, Garrick DJ, Fernando RL, Reecy JM: Whole genome analysis of infectious bovine keratoconjunctivitis in Angus cattle using Bayesian threshold models. *BMC Proc* 2011, 5 Suppl 4:S22.

A66 Lu J, Peatman E, Yang Q, Wang S, Hu Z, Reecy J, Kucuktas H, Liu Z: The catfish genome database cBARBEL: an informatic platform for genome biology of ictalurid catfish. *Nucleic Acids Res* 2011, 39(Database issue):D815-821.

A67 Lunney JK, Steibel JP, Reecy JM, Fritz E, Rothschild MF, Kerrigan M, Trible B, Rowland RR: Probing genetic control of swine responses to PRRSV infection: current progress of the PRRS host genetics consortium. *BMC Proc* 2011, 5 Suppl 4:S30.

A68 Wu XL, Gianola D, Hu ZL, Reecy JM: Meta-Analysis of Quantitative Trait Association and Mapping Studies using Parametric and Non-Parametric Models. *Journal of Biometrics and Biostatistics* 2011, S1:1-9.

A69 Boddicker N, Waide EH, Rowland RR, Lunney JK, Garrick DJ, Reecy JM, Dekkers JC: Evidence for a major QTL associated with host response to porcine reproductive and respiratory syndrome virus challenge. *J Anim Sci* 2012, 90(6):1733-1746.

A70 Duan Q, Tait RG, Jr., Mayes MS, Garrick DJ, Liu Q, Van Eenennaam AL, Mateescu RG, Van Overbeke DL, Garmyn AJ, Beitz DC *et al*: Genetic polymorphisms in bovine transferrin receptor 2 (TFR2) and solute carrier family 40 (iron-regulated transporter),

member 1 (SLC40A1) genes and their association with beef iron content. *Anim Genet* 2012, 43(2):115-122.

A71 Endale Ahanda ML, Fritz ER, Estelle J, Hu ZL, Madsen O, Groenen MA, Beraldi D, Kapetanovic R, Hume DA, Rowland RR *et al*: Prediction of altered 3'- UTR miRNA-binding sites from RNA-Seq data: the swine leukocyte antigen complex (SLA) as a model region. *PLoS One* 2012, 7(11):e48607.

A72 Groenen MA, Archibald AL, Uenishi H, Tuggle CK, Takeuchi Y, Rothschild MF, Rogel-Gaillard C, Park C, Milan D, Megens HJ *et al*: Analyses of pig genomes provide insight into porcine demography and evolution. *Nature* 2012, 491(7424):393-398.

A73 Hu ZL, Reecy JM, Wu XL: Design database for quantitative trait loci (QTL) data warehouse, data mining, and meta-analysis. *Methods Mol Biol* 2012, 871:121-144.

A74 Mateescu RG, Garmyn AJ, O'Neil MA, Tait RG, Jr., Abuzaid A, Mayes MS, Garrick DJ, Van Eenennaam AL, VanOverbeke DL, Hilton GG *et al*: Genetic parameters for carnitine, creatine, creatinine, carnosine, and anserine concentration in longissimus muscle and their association with palatability traits in Angus cattle. *J Anim Sci* 2012, 90(12):4248-4255.

A75 Peters SO, Kizilkaya K, Garrick DJ, Fernando RL, Reecy JM, Weaber RL, Silver GA, Thomas MG: Bayesian genome-wide association analysis of growth and yearling ultrasound measures of carcass traits in Brangus heifers. *J Anim Sci* 2012, 90(10):3398-3409.

A76 Badaoui B, Tuggle CK, Hu Z, Reecy JM, Ait-Ali T, Anselmo A, Botti S: Pig immune response to general stimulus and to porcine reproductive and respiratory syndrome virus infection: a meta-analysis approach. *BMC Genomics* 2013, 14:220.

A77 Bauermann FV, Harmon A, Flores EF, Falkenberg SM, Reecy JM, Ridpath JF: In vitro neutralization of HoBi-like viruses by antibodies in serum of cattle immunized with inactivated or modified live vaccines of bovine viral diarrhea viruses 1 and 2. *Vet Microbiol* 2013, 166(1-2):242-245.

A78 Cheng Y, Rachagani S, Canovas A, Mayes MS, Tait RG, Jr., Dekkers JC, Reecy JM: Body composition and gene expression QTL mapping in mice reveals imprinting and interaction effects. *BMC Genet* 2013, 14:103.

A79 Dawson HD, Loveland JE, Pascal G, Gilbert JG, Uenishi H, Mann KM, Sang Y, Zhang J, Carvalho-Silva D, Hunt T *et al*: Structural and functional annotation of the porcine immunome. *BMC Genomics* 2013, 14:332.

A80 Downey ED, Tait RG, Jr., Mayes MS, Park CA, Ridpath JF, Garrick DJ, Reecy JM: An evaluation of circulating bovine viral diarrhea virus type 2 maternal antibody level and response to vaccination in Angus calves. *J Anim Sci* 2013, 91(9):4440-4450.

A81 Hu ZL, Park CA, Wu XL, Reecy JM: Animal QTLdb: an improved database tool for livestock animal QTL/association data dissemination in the post-genome era. *Nucleic Acids Res* 2013, 41(D1):D871-879.

A82 Kizilkaya K, Tait RG, Garrick DJ, Fernando RL, Reecy JM: Genome-wide association study of infectious bovine keratoconjunctivitis in Angus cattle. *BMC Genet* 2013, 14(1):23.

A83 Koesterke L, Milfeld K, Vaughn M, Stanzione D, Koltes JE, Weeks NT, Reecy JM: Optimizing the PCIT algorithm on stampede's Xeon Xeon Phi processors for faster discovery of biological networks. *XSEDE '13 Proceedings of the Conference on Extreme Science and Engineering Discovery Environment: Gateway to Discovery* 2013, ISBN: 978-1-4503-2170-9. doi>10.1145/2484762.2484794.

A84 Mateescu RG, Garmyn AJ, Tait RG, Jr., Duan Q, Liu Q, Mayes MS, Garrick DJ, Van Eenennaam AL, Vanoverbeke DL, Hilton GG *et al*: Genetic parameters for concentrations of minerals in longissimus muscle and their associations with palatability traits in Angus cattle. *J Anim Sci* 2013, 91(3):1067-1075.

A85 Mateescu RG, Garrick DJ, Tait RG, Jr., Garmyn AJ, Duan Q, Liu Q, Mayes MS, Van Eenennaam AL, VanOverbeke DL, Hilton GG *et al*: Genome-wide association study of concentrations of iron and other minerals in longissimus muscle of Angus cattle. *J Anim Sci* 2013, 91(8):3593-3600.

A86 Nafikov RA, Schoonmaker JP, Korn KT, Noack K, Garrick DJ, Koehler KJ, Minick-Bormann J, Reecy JM, Spurlock DE, Beitz DC: 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* 2013, 96(9):6007-6021.

A87 Nafikov RA, Schoonmaker JP, Korn KT, Noack K, Garrick DJ, Koehler KJ, Minick-Bormann J, Reecy JM, Spurlock DE, Beitz DC: Sterol regulatory element binding transcription factor 1 (SREBF1) polymorphism and milk fatty acid composition. *J Dairy Sci* 2013, 96(4):2605-2616.

A88 Park CA, Bello SM, Smith CL, Hu ZL, Munzenmaier DH, Nigam R, Smith JR, Shimoyama M, Eppig JT, Reecy JM: The Vertebrate Trait Ontology: a controlled vocabulary for the annotation of trait data across species. *Journal of biomedical semantics* 2013, 4(1):13.

A89 Peters SO, Kizilkaya K, Garrick DJ, Fernando RL, Reecy JM, Weaber RL, Silver GA, Thomas MG: Heritability and Bayesian genome-wide association study of first service conception and pregnancy in Brangus heifers. *J Anim Sci* 2013, 91(2):605-612.

A90 Saatchi M, Garrick DJ, Tait RG, Jr., Mayes MS, Drewnoski M, Schoonmaker J, Diaz C, Beitz DC, Reecy JM: Genome-wide association and prediction of direct genomic breeding values for composition of fatty acids in Angus beef cattle. *BMC Genomics* 2013, 14:730.

A91 Tait RG, Jr., Downey ED, Mayes MS, Park CA, Ridpath JF, Garrick DJ, Reecy JM: Evaluation of response to bovine viral diarrhea virus type 2 vaccination and timing of weaning on yearling ultrasound body composition, performance, and carcass quality traits in Angus calves. *J Anim Sci* 2013, 91(11):5466-5476.

A92 Baes CF, Dolezal MA, Koltes JE, Bapst B, Fritz-Waters E, Jansen S, Flury C, Signer-Hasler H, Stricker C, Fernando R *et al*: Evaluation of variant identification methods for whole genome sequencing data in dairy cattle. *BMC Genomics* 2014, 15:948.

A93 Boddicker NJ, Bjorkquist A, Rowland RR, Lunney JK, Reecy JM, Dekkers JC: Genome-wide association and genomic prediction for host response to porcine reproductive and respiratory syndrome virus infection. *Genet Sel Evol* 2014, 46:18.

A94 Boddicker NJ, Garrick DJ, Rowland RR, Lunney JK, Reecy JM, Dekkers JC: Validation and further characterization of a major quantitative trait locus associated with host response to experimental infection with porcine reproductive and respiratory syndrome virus. *Anim Genet* 2014, 45(1):48-58.

A95 Casas E, Duan Q, Schneider MJ, Shackelford SD, Wheeler TL, Cundiff LV, Reecy JM: Polymorphisms in calpastatin and mu-calpain genes are associated with beef iron content. *Anim Genet* 2014, 45(2):283-284.

A96 Cesar AS, Regitano LC, Mourao GB, Tullio RR, Lanna DP, Nassu RT, Mudado MA, Oliveira PS, do Nascimento ML, Chaves AS *et al*: Genome-wide association study for intramuscular fat deposition and composition in Nellore cattle. *BMC Genet* 2014, 15:39.

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C88. Kataria, R.S., M. Mukesh, K. Tripathy, J. Agarwal, B.K. Joshi, A.K. Mohanty, J.M. Reecy, and B.P. Mishra. 2010.Identifying differentially expressed genes in lactating and non-lactating mammary gland of water buffalo (*Bubalus bubalis*) by PCR-based suppression subtractive hybridization technique. International Society of Animal Genetics. Edinburgh, Scotland.

C89. Reecy, J.M. 2010. Spanning Research from QTL to Functional Unit of a Gene. American Society of Animal Science National Meeting, Denver, CO.

C90. Kataria, R.S., R.G. Tait Jr., D. Kumar, M.A. Ortega and J.M. Reecy. 2010. Association of Toll-like receptor 4 single nucleotide polymorphisms with incidence of infectious bovine keratoconjunctivitis (IBK) in cattle. International Society of Animal Genetics. Edinburgh, Scotland.

C91. Mukesh, M., R.S. Kataria, P. Yadav, J. Agarwal, B.K. Joshi, A.K. Mohanty, A.K. Dang, J. Kaushik, J.M. Reecy, and B.P. Mishra. 2010. Genome-wide expression analysis of mammary epithelial cells (MEC) during early lactation in buffalo (*Bubalus bubalis*) and zebu cattle (*Bos indicus*). International Society of Animal Genetics. Edinburgh, Scotland.

C92. Mishra, B.P., M.S. Tantia, S.C. Mehta, R.G. Tait Jr, J.E. Koltes, and J.M. Reecy. 2010. Single nucleotide polymorphism(SNP) in *MAF1* and *GPAA1* genes and association analysis with carcass and meat quality traits in Angus cattle. International Society of Animal Genetics. Edinburgh, Scotland.

C93. Rogel-Gaillard, C., C.K. Tuggle, J. Loveland, J. Harrow, E. Giuffra, J. Lunney, D. Hume, A. Archibald, H. Dawson, J.M. Reecy, H. Uenishi, T. Morozumi, H. Shinkai, D. Prickett, S. Zhao, Y. Sang, F. Blecha, G. Zhang, B. Bed'hom, R. Cheng, Y. Rodriguez, A. Anselmo, B. Badaoui, C. Chen, H. Chen, S. Abrams, D. Beraldi, R. Kapetanovic, Z.-L. Hu, and the Swine Genome Sequencing Consortium. 2010. Annotation of the immunity-related genes in the pig genome. International Society of Animal Genetics. Edinburgh, Scotland.

C94. Tantia, M.S., R.K. Vijh, B.P. Mishra, R.S. Kataria, P.K. Vij, V. Bhasin, P. Sikka, A.K. Pandey, S.P. Yadav, R.K. Sethi, B.K. Joshi and J.M. Reecy. 2010. Buffalo (*Bubalus bubalis*) Whole genome sequence initiative. International Society of Animal Genetics. Edinburgh, Scotland.

C95. Cánovas, A., R.N. Pena, D. Gallardo, J.M. Reecy, M. Amills, R. Quintanilla. 2010. Expression quantitative trait loci for meat quality traits in the *gluteus medius* muscle of commercial Duroc pigs.International Society of Animal Genetics. Edinburgh, Scotland.

C96. Boddicker, D.J. Garrick, J.M Reecy, B. Rowland, M.F. Rothschild, J.P. Steibel, J.K. Lunney, J.C.M. Dekkers. 2010. Genetic parameters and markers associated with viremia and growth in pigs infected with Porcine Reproductive and Respiratory Syndrome Virus. 2010 PRRS Symposium. Chicago, IL.

C97. Wu, X.-L., D. Gianola, Z.-L. Hu, J.M. Reecy. 2011. Meta-Analysis of QTL Mapping Experiments Using a Non-Parametric Model with Dirichlet Process Prior. Plant and Animal Genome meeting, San Diego, CA.

C98. Hu, Z.-L. , X.-L. Wu, C. Park, and J.M. Reecy. 2011. Extension of Animal QTLdb (IV): QTL meta-analysis on the fly. Plant and Animal Genome meeting, San Diego, CA

C99. Boddicker, N., D.J. Garrick, J.M. Reecy, B. Rowland, M.F. Rothschild, J.P. Steibel, J.K. Lunney, J.C.M. Dekkers. 2011. Genetic parameters and markers associated with viremia and growth in pigs infected with Porcine Reproductive and Respiratory Virus. Plant and Animal Genome meeting, San Diego, CA.

C100. Boddicker, N., D.J. Garrick, J.M. Reecy, B. Rowland, M.F. Rothschild, J.P. Steibel, J.K. Lunney, J.C.M. Dekkers. 2011. Genetic parameters and markers associated with viremia and growth in pigs infected with Porcine Reproductive and Respiratory Virus. Midwest American Society of Animal Science, Des Moines, IA.

C101. Downey, E.D., E.C. Conrad, K.K. Lintz, J.F. Ridpath, R.G. Tait, Jr., D.J. Garrick, J.M. Reecy. 2011. Environmental effects and Bayesian whole genome analysis of BVDV2 titers during vaccination of Angus. Plant and Animal Genome meeting, San Diego, CA.

C102. Downey, E.D., E.C. Conrad, K.K. Lintz, J.F. Ridpath, R.G. Tait, Jr., D.J. Garrick, J.M. Reecy. 2011. Relationship of BVDV2 antibody titer levels with growth and body composition traits in Angus calves. Midwest American Society of Animal Science, Des Moines, IA.

C103. Koltes J.E., Davis S.G., Hu Z.-L., Shimomoya M., Dwinell M., Kwitek A.E., J.M. Reecy. 2011. Virtual Comparative Mapping Tool (VCMap): A Comparative Genomics Viewer and Database Designed to Facilitate Genomic Discovery. Plant and Animal Genome meeting, San Diego, CA.

C104. Abdel Ghaffar, M.A., A.M. Abdel-Samee, M.M.A. Shetaewi, M.R.M. Mousa, L. Ma, Y. Da, R. G. Tait, Jr, J.M. Reecy. 2011. Genome-Wide Analysis of Single-Locus and Epistatic SNP Effects on Carcass Traits in Angus Beef Cattle. Plant and Animal Genome meeting, San Diego, CA.

C105. The International Buffalo Consortium. 2011. A community effort to analyse the buffalo genome. Plant and Animal Genome meeting, San Diego, CA.

C106. Lunney, J.K., N. Boddicker, J.C.M. Dekkers, D.J. Garrick, S. Abrams, J.P. Steibel, J.M. Reecy, E. Fritz, M. Rothschild, M. Kerrigan, B. Trible, R.R.R. Rowland. 2011. PRRS Host Genetics Consortium: Background and current progress. Midwest American Society of Animal Science, Des Moines, IA.

C107. Boddicker, N., D.J. Garrick, J.M. Reecy, R. Rowland, M.F. Rothschild, J.P. Steibel, J.K. Lunney, J.C.M. Dekkers. 2011. A major QTL for response to Porcine Reproductive and Respiratory Syndrome Virus in pigs. American Society of Animal Science National Meeting, New Orleans, LA.

C108. Endale, M.-L., Z.-L. Hu, J. Estelle, E.R. Fritz, C. Rogel-Gaillard, J.M. Reecy, E. Giuffra. 2011. microRNA target prediction and 3'URT polymorphism in swine. RNAi & miRNA World Congress, Boston, MA.

C109. Cheng, Y., S. Rachigani, J.M. Reecy. 2011. QTL mapping study on muscle and adipose related traits in mice reveals significant imprinting and interaction effects. 4th International Symposium on Animal Functional Genomics. Dublin, Ireland.

C110. Tuggle, C.K., C. Rogel-Gaillard, J. Loveland, H. Uenishi, H. Dawson, J. Lunney, Y. Sang, S. Zhao, E. Giuffra, S. Botti, J.M. Reecy, J. Harrow, T. Freeman, A.L. Archibald, M. Murtaugh, D. Hume, T. Morozumi, H. Shinkai, B. Bed'hom, F. Blecha, G. Zhang, K. Mann, J. Zhang, C. Chen, Z.-L. Hu, R. Cheng, T. Huang, Y. Rodriguez, A. Anselmo, B. Badaoui, J. Schwartz, R. Kapetanovic, D. Beraldi, and the Swine Genome Sequencing Consortium. 2011. Community annotation of immunity-related genes in the pig genome. 4th International Symposium on Animal Functional Genomics. Dublin, Ireland.

C111. Endale, M.-L., Z.-L. Hu, J. Estellé, E.R. Fritz, C. Rogel-Gaillard, J.M. Reecy and E. Giuffra. 2011. *In silico* prediction of microRNAs targeting alleles of the Swine Leukocyte Antigen complex. 4th International Symposium on Animal Functional Genomics. Dublin, Ireland.

C112. Koltes, J.E.. R.G. Tait Jr, E.R. Fritz, B.P. Mishra, A.L. Van Eenennaam, R.G. Mateescu, D.L. Van Overbeke, A.J. Garmyn, D. Beitz, D.J. Garrick and J.M. Reecy. 2011. Investigating the genetic control of bovine skeletal muscle iron content. 4th International Symposium on Animal Functional Genomics. Dublin, Ireland.

C113. Fritz, E.R., J.K. Lunney, R. Rowland and J.M. Reecy. 2011.PRRS Host Genome Consortium Database: Development of a System of Data Storage and Sharing for a Multi-Organizational Group. PRSS Symposium, Chicago, IL.

C114. Fritz, E.R., J.E. Koltes, R.G. Tait Jr, D.J. Garrick, and JM Reecy. 2012. Pipseq: a DNA sequencing alignment, variant detection, annotation and effect prediction pipeline. Plant and Animal Genome meeting, San Diego, CA.

C115. Abdel Ghaffar, M.A., A.M. Abdel-Samee, M.M.A. Shetaewi, M.R.M. Mousa, A.H.M Ibrahim, M.S. Mayes, R.G. Tait, Jr. and J.M. Reecy. 2012. Identification of single

nucleotide polymorphisms from RNA-seq data and their associations with fatty acid composition in Angus beef cattle. Plant and Animal Genome meeting, San Diego, CA.

C116. Immune Response Annotation Group (IRAG). 2012. Structural and functional annotation of immunity-related genes in the pig genome. Plant and Animal Genome meeting, San Diego, CA.

C117. Koltes J.E , S.G. Davis, Z.-L. Hu, M. Shimoyama, M. Dwinell, A.E. Kwitek, and J.M. Reecy. 2012. VCMap3.0: a comparative genetics viewer designed to transfer annotation, QTL and biological information across species. Plant and Animal Genome meeting, San Diego, CA.

C118. Hu, Z.-L., O. Couture, E. Fritz, C. Park, C.K. Tuggle and J.M. Reecy. 2012. Pig Genome Database: a central pig genome information hub to support the community activities. Plant and Animal Genome meeting, San Diego, CA.

C119. The 1000 bull genomes project consortium. The 1000 bull genomes project. 2012. Plant and Animal Genome meeting, San Diego, CA.

C120. Park, C.A., S.M. Bello, C.Smith, Z.-L. Hu, D. Munzenmaier, M. Shimoyama, J. Eppig, and J.M. Reecy. 2012. The Vertebrate Trait Ontology: A controlled vocabulary to facilitate cross-species comparison of trait data. Plant and Animal Genome meeting, San Diego, CA.

C121. Hu, Z.-L., C.A. Park, and J.M. Reecy. 2013. Animal QTLdb Extension (V): Addition of new data types and functions. Plant and Animal Genome meeting, San Diego, CA.

C122. Boddicker, R.L., J.E. Koltes, E.R. Fritz, V. Mani, J.M. Reecy, N.K. Gabler, J.W. Ross. 2013. Prenatal and Postnatal Dietary n-3 Fatty Acid Supplementation Alters Buffy Coat DNA Methylation Profile in Pigs. Plant and Animal Genome meeting, San Diego, CA.

C123. Koltes, JE, E.R. Fritz, M.W. Vaughn and J.M. Reecy. 2013. Accelerating livestock genomics with iAnimal. Plant and Animal Genome meeting, San Diego, CA.

C124. Reecy, J.M., J.E. Koltes, E.R. Fritz, T.S. Sonstegard, C.P. Van Tassel, The International Buffalo Consortium. 2013. Identification of SNPs in water buffalo using next generation sequencing data. Plant and Animal Genome meeting, San Diego, CA.

C125. Decker, J., H. Noyes, J.-W. Kim, M. Babar, J.M. Reecy, M. Saif-Ur-Rehman, A. Gotherstrom, L. Praharani, T.S. Sonstegard, O. Hanotte, A. Molina, C.M. Seabury, M. Ali Yildiz, M.P. Heaton, W. Liu, R. Schnabel, J. Taylor. 2013. World-wide patterns of divergence, migration and admixture in domesticated cattle. Plant and Animal Genome meeting, San Diego, CA.

C126. Reecy, J.M., J.E. Koltes, R.G Tait Jr., M.S. Mayes, R. Mateescu, D.J. Garrick, D.C. Beitz. 2013. A systems-genetics analysis of bovine skeletall muscle iron level. Plant and Animal Genome meeting, San Diego, CA.

C127. Peters, S.O., K.Kizilkaya, I.G. Imumorin, R. L. Fernando, J.M. Reecy, M. De Donato, D.J. Garrick. 2013. Genome-wide linkage disequilibrium patterns in 10 beef cattle breeds. Plant and Animal Genome meeting, San Diego, CA.

C128. Choi, I., A. Hosseini, H. Bao, A. Kommadath, X. Sun, Y. Meng, P. Stothard, G.S. Plastow, C.K. Tuggle, J.M. Reecy, E. Fritz, S.M. Abrams, J.K. Lunney, L. Luo Guan. 2013. Globin reduction in porcine whole blood for improving sensitivity and accuracy of transcriptome analysis. Plant and Animal Genome meeting, San Diego, CA.

C129. Z. Hu, D. Kumar, J.M. Reecy. 2013. CorrDB : A livestock animal genetic/phenotypic trait correclation database. Plant and Animal Genome meeting, San Diego, CA.

C130. Koltes, J.E., E.R. Fritz, M. Vaughn, L.J. Alexander, J.M. Reecy. 2013. Mining RNA sequencing data for evidence of allele specific expression in cattle. Plant and Animal Genome meeting, San Diego, CA.

C131. J.K. Lunney, I. Choi, C.J. Souza, K.P.C. Araujo, S.M. Abrams, J.P. Steibel, M. Arceo, C.W. Ernst, J.M. Reecy, E. Fritz, J.C.M. Dekkers, N.J. Boddicker, E.H. Waide, X. Zhao, M.F. Rothschild, G.S. Plastow, R.A. Kemp, J.C.S. Harding, M. Kerrigan, B. Trible, R.R.R. Rowland. 2013. Genetic control of swine responses to PRRSV infection: Progress of the PRRS Host Genetics Consortium. Plant and Animal Genome meeting, San Diego, CA.

C132. Boddicker, N. J., J. K. Lunney, R. R. R. Rowland, D. J. Garrick, J. M. Reecy, and J. C. M. Dekkers. 2013. Genetic basis of host response to PRRSV infection. Midwest Section American Society of Animal Science. Des Moines, IA.

C133. Díaz, C., Garrick, D.J., Saatchi, M, Reecy, J.M., 2013.Profiling the architecture of genetic correlations between some fatty acids in ribeye of beef cattle. European Association of Animal Production, Nantes, France.

C134. Taylor, A.R., K.R. Underwood, A.E. Wertz-Lutz, M.G. Gonda, J.M. Reecy, J.E. Koltes, T.D. Jennings, and A.D. Weaver. 2013. Maternal nutrition during the second trimester of gestation alters gene transcription in the resultant offspring. Midwest American Society of Animal Science, Des Moines, IA.

C135. Fritz, E., J. Koltes, J.M. Reecy, J. Williams, D. Lamartino, T. Sonstegard, C. Van Tassel, P. Ajmone-Marsan and the International Water Buffalo Sequencing Consortium. 2013. Gene Variant Discovery by Genome Re-sequencing. International Society of Functional Animal Genomics. Garuja, Brazil.

C136. Reecy, J.M. , J. P. Carson, F. McCarthy, J. E. Koltes, E. Fritz-Waters, J. Williams, E. Lyons, C. F. Baes, M. W. Vaughn. 2014. Cyberinfrastructure for Life Sciences - iAnimal

Resources for Genomics and Other Data Driven Biology. Proceedings, 10th World Congress of Genetics Applied to Livestock Production.

C137. Baes, C.F., M.A. Dolezal, E. Fritz-Waters, J.E. Koltes , B. Bapst, C. Flury, H. Signer-Hasler, C. Stricker, R. Fernando, F. Schmitz-Hsu, D.J. Garrick , J.M. Reecy, B. Gredler. 2014. Comparison of variant calling methods for whole genome sequencing data in dairy cattle. Proceedings, 10th World Congress of Genetics Applied to Livestock Production.

C138. Nicolazzi, E.L., C.P. Van Tassell, D. Lamartino, J.M. Reecy, E. Fritz-Waters, T.S. Sonstegard, J.E. Koltes, S.G. Schroeder, A. Ahmad, J.F. Garcia, L. Ramunno, G. Cosenza, J. Williams. 2015. Using the 90K Buffalo SNP Array. Plant and Animal Genome meeting, San Diego, CA

C139. Williams, J., A. Valentini, P.A. Marsan, A. Zimin, K.D. Pruitt, T.S. Sonstegard, C.P. Van Tassell, D. Lamartino, F. Strozzi, J.M. Reecy, F. Ferre, C. Lawley, E. Amaral, J. Womack. 2015. Status of the Buffalo Genome Project. Plant and Animal Genome meeting, San Diego, CA

C140. Boddicker, R.L., J.E. Koltes, E. Fritz-Waters, J.T. Seibert, J.M. Reecy, D. Nettleton, M.C. Lucy, T.J. Safranski, J.T. Selsby, R.P. Rhoads, N.K. Gabler, L.H. Baumgard, J.W. Ross. 2015. Alterations in Body Composition and Transcriptional Profile as a Result of Prenatal Heat Stress Exposure in Pigs. Plant and Animal Genome meeting, San Diego, CA

C141. McKay, S., J.W. Kim, R. Chapple, R.D. Schnabel, D.E. Hagen, K. Wells, D. Bickhart, J.E. Koltes, J.M. Reecy, J.F. Taylor, K. Taylor. 2015. DNA methylation affects phenotypic variation in cattle possessing extreme phenotypes for residual feed intake. Plant and Animal Genome meeting, San Diego, CA

C142. Schroyen, M., J.P. Steibel, I. Choi, J.E. Koltes, C. Eisley, E. Fritz-Waters, J.M. Reecy, J.C.M. Dekkers, R.R.R. Rowland, J.K. Lunney, C. Ernst, C.K. Tuggle. 2015. Whole blood microarray analysis of pigs showing extreme phenotypes after a porcine reproductive and respiratory syndrome virus (PRRS) infection. Plant and Animal Genome meeting, San Diego, CA

C143. Reecy, J.M. Development and utilization of bioinformatic tools in livestock genomics. 2015. Plant and Animal Genome meeting, San Diego, CA

C144. Mateescu, R. D.J. Garrick, J.M. Reecy. 2015. Genomic analysis of palatability of beef. 2015. Plant and Animal Genome meeting, San Diego, CA

C145. Carson, J., E. Dawson, J.E. Koltes, E. Fritz-Waters, J.M. Reecy, M. Vaughn. 2015. Leveraging iPlant cyberinfrastructure for a new data-driven research community. Plant and Animal Genome meeting, San Diego, CA

C146. Fritz-Waters, E., J.M. Reecy, J.E. Koltes, A. Markey, M.S. Mayes. 2015. Beef cattle

metagenomics: Predicting growth from the inside out. 2015. Plant and Animal Genome meeting, San Diego, CA

C147. Hu, Z.L., J.E. Koltes, E. Fritz-Waters, C. Park, J.M. Reecy. 2015. An application programming interface (API) for programmable access to the Animal QTLdb. 2015. Plant and Animal Genome meeting, San Diego, CA

C148. Buchanan, J.W., J.M. Reecy, D.J. Garrick, R. Mateescu. 2015. Gene Networks involved in tenderness and sensory attributes of steaks from Angus beef cattle. Plant and Animal Genome meeting, San Diego, CA

C149. Sayre, B., A. Wurah, J.M. Reecy. 2015. Characterization of an integrated model for candidate gene selection from genomic data with simulated data analysis. Plant and Animal Genome meeting, San Diego, CA

D. Articles in Non-Refereed Publications

D1. Loesche, J.A., R.H. Pritchard, J.M. Reecy. 1989. Frost damaged, immature soybeans for ruminant diets. 1989 Beef Day Report, South Dakota State University.

D2. Reecy, J.M., C.A. Bidwell, A.L. Grant. 1994. Regulation of muscle protein synthesis in swine. 1994 Swine Day Report, Purdue University.

D3. Reecy. J.M. 2000. Identification of molecular markers for carcass and meat quality traits in Angus cattle. 2000 Rhodes Beef Farm Report.

D4. Rodriguez, J.E., J.M. Reecy. 2003. Incidence of infectious bovine keratoconjunctivitis. Annual Progress Reports. ISRF03:35-39. http://www.iowabeefcenter.org/pdfs/BRR/breeding03.htm

D5. Steelman, C.A., J.K. Potts, J.M. Reecy. 2004. Characterization of gene expression in double-muscled and normal-muscled bovine embryos. Iowa State University Animal Industry Report. A.S. Leaflet R1876. http://www.ans.iastate.edu/AIR/2004TOC.html

D6. Rosa, A.J.M., G. Ren, J.M. Reecy. 2004. Development of the *BoviAnalyser* cDNA bovine microarray. Iowa State University Animal Industry Report. A.S. Leaflet R1877. http://www.ans.iastate.edu/AIR/2004TOC.html

D7. Mishra, B.P., J. Cavanagh, J.M. Reecy. 2004. Identifying genetic cause of dwarfism in American Angus cattle. Iowa State University Animal Industry Report. A.S. Leaflet R1870. http://www.ans.iastate.edu/AIR/2004TOC.html

D8. Mishra, B.P., J.M. Reecy. 2004. Generation of bovine genetic markers by representational difference analysis: a genome subtraction technique. Iowa State University Animal Industry Report. A.S. Leaflet R1875. http://www.ans.iastate.edu/AIR/2004TOC.html

D9. Knight, T., J. Minick, R. Tait, Jr., A. Trenkle, D. Wilson, G. Rouse, D. Strohbehn, J.M. Reecy, D. Beitz. 2004. Redesigning beef cattle to have a more healthful fatty acid composition. 2004 Beef Research Report Summaries. A.S. 650 Leaflet R1882. http://www.ans.iastate.edu/AIR/2004TOC.html

D10. Kim, K.-S., J.M. Reecy, L.L. Anderson, M.F. Rothschild. 2004. Molecular genetic studies of porcine genes for obesity. Iowa State University Animal Industry Report. A.S. Leaflet R1803. http://www.ans.iastate.edu/AIR/2004TOC.html

D11. Zhang, S., T. Knight, J. Minick, R. Tait, A. Trenkle, D. Wilson, G. Rouse, D. Strohbehn, J.M. Reecy, D. Beitz. 2005 Association of genetic variation to healthfulness of beef. A.S. Leaflet R2009.

D12. Rodriguez, J.A. Hassen, J.M. Reecy. 2006. Immunogenetic factors affecting Infectious Bovine Keratoconjunctivitis (IBK). Iowa State University Animal Industry Report. A.S. Leaflet R2602. http://www.ans.iastate.edu/report/air/2006pdf/R2062.pdf

D13. Tait, R., S. Zhang. T. Knight, J.M. Bormann, D. Strohbehn, D. Beitz, J.M. Reecy. 2007 Heritability estimates for fatty acid concentration in Angus beef. A.S. Leaflet R2191.

D14. Schneider, M.J., R. Tait, J. Ridpath, J.M. Reecy. 2008. Environmental factors impacting response to bovine viral diarrhea vaccines in Angus calves. Iowa State University Animal Industry Report.

D15. Schneider, M.J, R. Tait, J. Ridpath, J.M. Reecy. 2008. Environmental factors impacting response to bovine viral diarrhea vaccines in Angus calves. Iowa State University Animal Industry Report 2009. A.S. Leaflet R2400.

D16. Garrick, D., R. Fernando, K. Kizilkaya, J.M. Reecy. 2008. High-density SNP genotypes for predicting genetic merit of beef cattle. Iowa State University Animal Industry Report 2009. A.S. Leaflet R2397.

D17. Nafikov, R., J. Schoonmaker, J.M. Reecy, D. Moody-Spurlock, D. Beitz. 2008. Effects of A17924G genotypes associated with thioesterase domain of fatty acid synthase and K232A genotypes of diacylglycerol acyltransferase-1 on milk fatty acid composition in Holstein dairy cows. Iowa State University Animal Industry Report 2009. A.S. Leaflet R2433.

D18. Tait, R., S. Zhang, T. Knight, D. Strobehn, D. Beitz, J.M. Reecy. 2008. Genetic correlations of fatty acid concentrations with carcass traits in Angus-sired beef cattle. A.S. Leaflet R2285.

D19. Beitz, D., R. Nafikov, J. Schoonmaker, J.M. Reecy, D. Moody-Spurlock, J. Koehler, J. Minick-Borman. 2008. Enhancing the healthfulness of milk fat. Midwest Dairy Research Center. pp. 79-85.

E. Articles in Trade Publications

E1. Reecy, J.M. 2001. Cloning: a new technology in a long line. American Beef Cattleman.

F. Invited Presentations

F1. Reecy, J.M. Molecular mechanisms underlying skeletal muscle growth and development. Osborn Club. Iowa State University. Ames, IA, February 2001.

F2. Reecy, J.M. Expression profiling of skeletal muscle growth and development. Meat Animal Research Center. Clay Center, NE, March 2001.

F3. Reecy, J.M., M. Webster. Cyclic Stretch increases $p21^{waf1}$ promoter activity independent of terminal differentiation in C2C12 myotubes. Muscle satellite and stem cells. Tucson, AZ, July 2001.

F4. Reecy, J.M., J. Potts. Beyond Myostatin: The search for interacting alleles. Plant, Animal, and Microbial Genome meeting. San Diego, CA, January 2002.

F5. Reecy, J.M., S. Miller, M. Webster. Recent advances in our understanding of skeletal muscle satellite cells. Midwest Section, American Society of Animal Science. Des Moines, IA, March 2002.

F6. Reecy, J.M. Marker assisted selection for buffalo. National Dairy Research Institute. Karnal, India. November 2004.

F7. Reecy, J.M. Gene mapping. National Bureau of Animal Genetic Resources. Karnal, India. November 2004.

F8. Reecy, J.M. Need for marker validation studies. National Bureau of Animal Genetic Resources. Karnal, India. November 2004.

F9. Reecy, J.M. Discovery of quantitative trait loci. National Bureau of Animal Genetic Resources. Karnal, India. November 2004.

F10. Reecy, J.M. Candidate gene approach. National Bureau of Animal Genetic Resources. Karnal, India. November 2004.

F11. Reecy, J.M. Marker assisted selection. National Bureau of Animal Genetic Resources. Karnal, India. November 2004.

F12. Reecy, J.M. DNA technology. National Bureau of Animal Genetic Resources. Karnal, India. November 2004.

F13. Reecy, J.M. Future impacts of molecular genetics on goat research. Central Institute for Goat Research. Mathura, India, November 2004.

F14. Reecy, J.M. Future impacts of molecular genetics. Central Sheep & Wool Research Institute, Avikanagar, India, November 2004.

F15. Reecy, J.M. Overview of Iowa State University animal breeding and genetics. National Bureau of Animal Genetic Resources. Karnal, India. November 2004.

F16. Reecy, J.M., S. Lamont, C. Stahl. Application of microarray technologies in animal agriculture. Midwest Section, American Society of Animal Science. Des Moines, IA, March 2005.

F17. Reecy, J.M., D. Moody. 2006. Gene expression during skeletal muscle growth and development. Midwest Section, American Society of Animal Science. Des Moines, IA, March 2005.

F18. Reecy, J.M. C. Stahl, D. Moody. 2006. Gene expression profiling: Insights into skeletal muscle growth and development. American Society of Animal Science National Meeting. Cincinnati, OH, July 2005.

F19. Hu, Z.-L., J.M. Reecy. 2006. NRSP-8 bioinformatics: Databases and resources. PigNet, Lodi, Italy, Feb. 20-21.

F20. Hughes, L., J. Bao, Hu, Z.-L., V. Honavar, J.M. Reecy. 2006. Animal trait ontology: A project for the creation of a unified trait vocabulary for farm animals. Phenotype and Trait Ontology (PaTO), Stanford University. Dec. 1-2.

F21. Reecy, J.M. Role of myostatin in skeletal muscle growth. INRA. Jouy-en-Josas, France. March 14, 2007.

F22. Schneider, M.J, R. Tait, J.M. Reecy. 2007. Pinkeye and bovine respiratory disease: A case study. National Beef Cattle Evaluation Consortium Health Symposium. Kansas City, MO. Dec. 11-12, 2007.

F23. Hughes, L., J. Bao, Hu, Z.-L., V. Honavar, J.M. Reecy. 2007. Animal trait ontology: A unified trait vocabulary for farm animals. EADGENE meeting, Utrecht, Netherlands. June 5-10.

F24. J.M. Reecy. 2008. Global perspective on animal trait ontologies. EADGENE meeting, Edinburgh, Scotland.

F25. Cheng, Y., S. Rachigani, R. Tait, M.S. Mayes, E. Huff-Lonergan, J. Dekkers, J.M. Reecy. 2008. Molecular characterization of epistatic interactions in a M16i X myostatin mouse cross. International Society of Animal Genetics. Amsterdam, Netherlands.

F26. J.M. Reecy. 2008. AnimalQTLdb: An integrated database tool for positional QTL data mining. International Society of Animal Genetics. Amsterdam, Netherlands.

F27. J.M. Reecy. 2008. Integrated tools for mining genomic data. Allerton Conference. University of Illinois.

F28. J.M. Reecy. 2008. How can next (third) generation sequencing influence livestock research? Izatnagar, India.

F29. J.M. Reecy. 2008. The genetics of health. Izatnagar, India.

F30. J.M. Reecy. 2008. Application of microarray technologies in animal agriculture. Izatnagar, India.

F31. J.M. Reecy. 2008. Identification of molecular markers associated with livestock phenotypes. Izatnagar, India.

F32. J.M. Reecy. 2008. Development of bioinformatic/database resources to facilitate livestock research. Izatnagar, India.

F33. J.M. Reecy. 2008. PCR and primer design. Presented to the IVRI-Columbo International Training program. Izatnagar, India.

F34. J.M. Reecy. 2008. Development of bioinformatic/database resources to facilitate livestock research. Inaugural address of the 25th Anniversary of the National Bureau of Animal Genetic Resources, Karnal, India.

F35. J.M. Reecy. 2008. Genetic prediction of tenderness and healthfulness of beef. Genetic Predictions Workshop. Kansas City, MO.

F36. J.M. Reecy. 2008. The animal trait ontology and its development. INRA. Clermont-Ferrand, Tours, Rennes, and Jouy-en-Josas, France.

F37. J.M. Reecy. 2010. Looking beyond raw genomic sequence: New avenues for the future. International Buffalo Conference. Dehli, India.

F38. J.M. Reecy. 2010. Nutrient Composition of Beef. National Bureau of Animal Genetic Resources, Karnal, India.

F39. J.M. Reecy. 2010. Manual Annotation of Livestock Genomes. National Bureau of Animal Genetic Resources, Karnal, India.

F40. J.M. Reecy. 2010. Development of Bioinformatic Resources to Facilitate Comparative Genomics. National Bureau of Animal Genetic Resources, Karnal, India.

F41. J.M. Reecy. 2010. Healthfulness of Beef. Beef Improvement Federation. Columbia, Missouri.

F42. Cheng, Y., S. Rachigani, J.M. Reecy. 2011. QTL mapping study on muscle and adipose related traits in mice reveals significant imprinting and interaction effects. 4th International Symposium on Animal Functional Genomics. Dublin, Ireland.

F43. J.M. Reecy. 2012. A Systems-Genetics Analysis of Bovine Skeletal Muscle Nutrient Content. EU-US Animal Biotechnology Working Group meeting. Hinxton, UK

F44. J.M. Reecy. 2012. A Systems-Genetics Analysis of Bovine Skeletal Muscle Nutrient Content. BGI Genomics. Hong Kong, China

F45. J.M. Reecy. 2012. A Systems-Genetics Analysis of Bovine Skeletal Muscle Nutrient Content. ADNAT16. Hyderbad, India

F46. J.M. Reecy. 2013. A Systems-Genetics Analysis of Bovine Skeletal Muscle Iron Content. Plant and Animal Genome meeting. San Diego, CA

F47. J.M. Reecy. 2013. A Systems-Genetics Analysis of Bovine Skeletal Muscle Iron Content. INRA, Jouy-en-Josas, France.

F48. J.M. Reecy. 2013. Gene Variant Discovery by Genome Re-Sequencing. International Society of Animal Functional Genetics. Garuja, Brazil.

F49. J.M. Reecy. 2013. Use of genomic selection and systems biology to gain insights into milk and meat production. International forum: Genomics, innovation and economic growth. Mexico City, Mexico

F50. J.M. Reecy. 2013. SNPchips and Expression Arrays facilitate genomic analysis. Piracicaba, Brazil.

F51. J.M. Reecy. 2013. SNPchips and Expression Arrays facilitate genomic analysis. Buenos Aires, Argentina

F52. J.M. Reecy, Mary Sue Mayes, Alysta Markey, Eric Fritz-Waters, James Koltes. 2014. The Metagenome and Variation in Growth and Carcass Traits. Food, Nutrition & Agriculture Genomics Congress. April 7-8, 2014. London, UK.

F53. J.M. Reecy. 2014. Computational Resources to Facilitate Variant Discovery and Analysis. Midwest American Society of Animal Science. Des Moines, IA

F54. J.M. Reecy. 2014. Cyberinfrastructure for Life Sciences – iAnimal resources for genomics and other data driven biology. August 17-22. 14th World Congress of Genetics Applied to Livestock Production.

F55. J.M.Reecy. 2014. Genotype to Phenotype in Beef Cattle. Ensembl Scientific Advisory Board day. June 19-20. Hinxton, UK.

F56. J.M. Reecy, Mary Sue Mayes, Alysta Markey, Eric Fritz-Waters, James Koltes. 2014. The Metagenome and Variation in Growth and Carcass Traits. Reciprocal Meats Conference. June 16-17. Madison, WI.

F57. J.M. Reecy. 2014. Regulating the animal immunity through nutrient gene interaction. April 20-22. Global Animal Nutrition Conference. Bangalore, India.

F58. Reecy, J.M. , J. P. Carson, F. McCarthy, J. E. Koltes, E. Fritz-Waters, J. Williams, E. Lyons, C. F. Baes, M. W. Vaughn. 2014. Cyberinfrastructure for Life Sciences - iAnimal Resources for Genomics and Other Data Driven Biology. Proceedings, 10th World Congress of Genetics Applied to Livestock Production.

F59. Reecy, J.M. Development and utilization of bioinformatic tools in livestock genomics. 2015. Plant and Animal Genome meeting, San Diego, CA

G. Departmental Seminars at Iowa State University

G1. Reecy, J.M. 2000. So you are an Assistant Professor: Now what? Animal Breeding and Genetics Seminar, Fall.

G2. Reecy, J.M. 2000. Molecular mechanisms that control muscle growth and development. Department of Animal Science Seminar, Spring.

G3. Reecy, J.M. 2000. Gene expression profiling techniques. Muscle Biology Seminar, Spring.

G4. Reecy, J.M. 2000. High throughput analysis of gene expression during skeletal muscle hypertrophy. Interdepartmental Genetics Seminar, Fall.

G5. Reecy, J.M. 2001. Genetic evaluation of cattle: Where are we today? Animal Breeding and Genetics Seminar, Spring.

G6. Reecy, J.M. 2001. High throughput analysis of gene expression during skeletal muscle hypertrophy. Muscle Biology Seminar, Spring.

G7. Reecy, J.M. 2001. Building of a transcriptional gene map: a tail of rats, mice and cattle. Animal Breeding and Genetics Seminar, Fall.

G8. Reecy, J.M. 2003. The Strength of Muscle Cell Culture. Meat Science Seminar, Spring.

G9. Reecy, J.M. 2004. New opportunities: Lessons learned from transcription profiling. Animal Breeding and Genetics, Seminar, Spring.

G10. Reecy, J.M. 2008. Development of BovCode: A genome annotation resource for cattle. Animal Breeding and Genetics Seminar, Fall.

G11. Reecy, J.M. 2014. Fun with sequencing. Animal Breeding and Genetics Seminar, Fall.

H. Teaching Presentations

H1. Reecy, J.M., A. Rosa, G. Ren. Not all "cow chips" smell: Building of a bovine spotted cDNA microarray. Microarray discussion group. Iowa State University. Ames, IA, November 2002.

H2. Reecy, J.M., A. Rosa, G. Ren. Building of a cow chip (spotted cDNA microarray). Nutritional Physiology Group, Iowa State University. Ames, IA, February, 2003.

H3. Reecy, J.M. The interface between biotechnology and ethics. Iowa Agriculture Development Authority Youth Conference. Ames, IA, June 2003.

I. Outreach Presentations

I1. Reecy, J.M. Current status of cattle molecular genetics. January 2000. Select Sires. Columbus, OH.

I2. Reecy, J.M. Genetic evaluation of cattle: Where are we today? March 2000. American Angus Association. Saint Joseph, MO.

I3. Reecy, J.M. What's gene mapping? Current progress in beef cattle. May 2000. Vet Update, McNay Research Farm. Chariton, IA.

I4. Reecy, J. M. Molecular genetics primer. October 2000. Beef in-service training session at Iowa State University. Ames, IA.

I5. Reecy, J.M. Genetic evaluation of cattle: Where are we today? December 2000. Six Rivers Angus Association. Boone, IA.

I6. Reecy, J.M. New technologies in genetic evaluation of cattle. April 2001. North Central Simmental Association Conference. Ames, IA.

I7. Reecy, J.M. Potential use of transgenic technology to harm animal agriculture. November 2002. Animal Plant Health Inspection Services, Washington, DC.

I8. Reecy, J.M., J. Dekkers. Mining the beef gene MAP. November 2002. National Beef Cattle Evaluation Consortium Brown Bagger Web Seminar Series.

I9. Reecy, J.M. Potential use of transgenic technology to harm animal agriculture. February, 2003. Defense Intelligence Agency, Arlington, VA.

I10. Reecy, J.M. New technologies in beef cattle genetics. April, 2003. Caprock Feedlots, Amarillo, TX.

I11. Reecy, J.M., A. Rosa, G. Ren. Building *BoviAnalyzer*. May 2003. Cargill Inc., Minneapolis, MN.

I12. Reecy, J.M., J.E. Koltes, B.P. Mishra. New technologies to improve beef cattle. June 2003. Bovigen Solutions Inc. Ames, IA

I13. Reecy, J.M. Development of EPDs for health traits: Pinkeye. National Beef Cattle Evaluation Consortium Extension Producer Training. August 2003. Bell Ranch, NM.

I14. Reecy, J.M. Update of beef cattle genetics research at Iowa State University. December 2003. Iowa Cattleman's Association. Ames, IA.

I15. Reecy, J.M. Pinkeye. March 2004. National Beef Cattle Evaluation Consortium extension specialist training. Clay Center, NE.

I16. Reecy, J.M. Application of new genetic evaluation technologies. May 2004. SimSeminar. Beef Improvement Federation. Sioux Falls, SD.

I17. Reecy, J.M. Microarrays as a research tool in livestock. June 2004. Cargill Inc. Wichita, KS.

I18. Reecy, J.M. DNA tests & gene markers: What's available? What lies ahead? December 2004, Ames, IA.

I19. Reecy, J.M. Overview of the bovine genome sequencing and SNP project. American Charolais technical conference. June 2005. Manhattan, KS.

I20. Reecy, J.M. Health and healthfulness of beef. September, 2005 McNay Research Farm. Chariton, IA

I21. Reecy, J.M. 2008. The genetics of health of beef. McNay Research Farm. Chariton, IA.

I22. Reecy, J.M. 2009. Basics of cattle breeding. American Dexter Cattle Association. June 2009. Fort Dodge, IA.

J. Pending and Issued Patents

J1. Zhang, S., T. Knight, J.M. Reecy, and D. Beitz. Genetic markers in fatty acid synthase for identification of meat product fatty acid content in cattle. Licensed to Neogen.

J2. Koltes, J.E., B. Mishra, J.M. Reecy. Genetic test for the identification of dwarfism in cattle. Licensed to American Angus Association.

TEACHING (30% of Appointment prior to July 2009)

Course	Semester	Credits	Description	Number of Students
Animal Science 114L; Working With Animals	F00, S01	1	A hands-on introductory course in skills for proper care and management of domestic livestock. Husbandry skills including health observation, animal movement, identification, management procedures, and environmental assessment are covered. (Team taught with Drs. Steven Lonergan and Brad Skaar – 30% of total effort).	360
Animal Science 211; Issues Facing Animal Science	F99, F04	1	An introductory course in the factors that define contemporary ethical and scientifically based issues facing animal agriculture. (Team taught with Dr. Jeff Berger – 60% of total effort)	150
Animal Science 345; Growth and Development of Domestic Animals	S05, S06, S07, S09	3	A course on the basic principles of animal growth and development at the tissue, cellular and molecular levels. Emphasis is placed on skeletal muscle, adipose, bone and mammary gland growth and development. In addition, the course covers the effects of genetics, nutrition, and pharmaceuticals on growth. (100% effort with the exception of S09 when course was team taught with Dr. Ted Huiatt – 75% effort)	96
Animal Science 411; Addressing Issues in Animal Science	S00, F00, F04	1	A skills development course in which moral and scientific issue facing animal agriculture are discussed and debated. (Team taught with Dr. Palmer Holden – 50% of total effort)	150
Animal Science 445/545X; Growth and Development of Domestic Animals	S03, S04	3	A course on the basic principles of animal growth and development at the tissue, cellular and molecular levels. Emphasis is placed on skeletal muscle, adipose, bone and mammary gland growth and development. In addition, the course covers the effects of genetics, nutrition and pharmaceuticals on growth. (100% effort)	24
Animal Science 653 Module B; Applied Beef and Dairy Cattle Breeding	S03, F05	2	A graduate level course on basic concepts and methods for design and evaluation of genetic improvement in beef and dairy cattle (Co-taught with Dr. Jeff Berger – 50% of the total effort)	15

Animal Science 658; Seminar in Animal Breeding and Genetics	S03	1	A discussion seminar on current research and publications. Presented by professors, students, or by visiting scientists. (100% effort)	3
Genetics 690; Seminar in Genetics	F99, F00	1	A discussion seminar on graduate students current research. (Co-taught with Dr. Steve Whitham – 50% of total effort).	74

CONTRIBUTIONS TO OTHER ANIMAL SCIENCE COURSES

Course	Semester	Credits	Description	Contribution
Animal Science 345; Growth Related to Value Based Marketing	F02, F01, F00	3	A hands-on introductory course on the application of principles of development related to value based marketing. Postnatal growth and development of fat, muscle, and bone of food animals. In addition, techniques to evaluate carcass composition are also covered.	One lecture on skeletal muscle development
Animal Science 360; Fresh Meats	F08, F07, F06, F05, F04, F03, F02, F01	3	This course covers the impact of muscle structure, composition, rigor mortis, inspection, fabrication, handling, packaging, and cooking on the palatability, nutritional value, yields, market value, and safety of fresh meat.	One laboratory on muscle growth and ultrastructure
Animal Science 451; Animal Molecular Biology	F04, F02, F01, F00, F99	3	A hands-on course designed to introduce molecular biology techniques in domestic animal research and production.	Two lectures and two laboratories, 1/8 of the total course

IOWA STATE UNIVERSITY UNDERGRADUATE ADVISING ACTIVITIES

Animal Science and Animal Science Pre-Veterinary Medicine Majors

1999 - June 2009 The candidate has advised 12 to 28 undergraduate students per semester.

Freshman Honors Program

Spring 2000	Rachel Hollander
Spring 2001	Nicholas Goldberry
Spring 2002	Emily Schafhauser
Spring 2003	Jacqueline Smith
Spring 2004	Nicole Cressey
Spring 2005	Julie Collins

Spring 2007	Nicole Rutscher
Spring 2008	Emily Conrad
Spring 2009	Mari Valderrama Figueroa, Kelly Lintz
Spring 2011	Julie Gunter

Senior Honors Project

Fall 2006	Aracely Acevedo
Spring 2010	Emily Conrad

Undergraduate Research Program

Fall 2001 – Spring 2003	Lisa Shearrer
Fall 2002 – Spring 2004	Heather Wells
Fall 2005 – Spring 2005	Brandon Cornelius
Fall 2006 – Spring 2007	Rachel Sippy
Fall 2006 – Spring 2008	Julie Collins, Andrea Moe
Fall 2008 – Spring 2009	Clint Hodson, Jenna Kasperbauer
Fall 2009 – Spring 2010	Adrienne Jacobson, Jenna Kasperbauer
Fall 2012 – Spring 2013	Julie Gunter, Kassandra Fisch, Serif Odobasic
Fall 2013 – Spring 2014	Serif Odobasic
Fall 2014 – Spring 2015	Serif Odobasic, Andrea McGowan, Kristin Bernhardt, Jessica Fitzpatrick

Partnership for Biological Sciences Education

Spring 2004	Darshana Bhattacharyya

National Science Foundation-REU Summer Internship Program

Summer 2001	Sabrina Seehafer
Summer 2006	Aracely Acevedo
Summer 2007	Manual Ortega
Summer 2009	Jean Carlos

Undergraduate Student Service

2004-2006 Faculty advisor for Block and Bridle (undergraduate club, Department of Animal Science).

SUPERVISION OF GRADUATE STUDENTS

Current Graduate Students Advised as Major or Co-Major Professor

Student	Degree	Major	Expected Year	Topic

Damaris Flemming	PhD	Genetics	2016	Heat Stress in Poultry
Luke Kramer	PhD	Genetics	2017	Epistatic Control of Beef Traits

Former Graduate Students Advised as Major or Co-Major Professor

Student	**Degree**	**Major**	**Year**	**Current Placement**
Erica Downey	M.S.	Animal Breeding	2011	Texas A&M – PhD program
Ye Cheng	PhD.	Genetics	2010	Post Doc Fellow, University California – San Francisco
Eric Fritz	M.S.	Animal Breeding	2009	Iowa State University
LaRon Hughes	Ph.D.	Bioinformatics and Computational Biology	2008	University of Chicago, Chicago, IL
Matt Schneider	M.S.	Animal Breeding	2007	Field specialist, Elanco
James Koltes	Ph.D.	Genetics	2007	Post Doc Fellow, Iowa State University
Lacey Luense*	M.S.	Genetics	2007	Kansas University Medical Center
Christian Paxton	Ph.D.	Genetics	2006	Lab Manager, Salt Lake City, UT
Justin Recknor*	Ph.D.	Statistics/ BCB	2006	Statistician, Eli Lilly, Indianapolis, IN
Jose Rodriguez	M.S.	Genetics	2006	United State Army, Fort Hood, TX
Carissa Steelman	M.S.	Genetics	2005	Research Assistant Scientist, Iowa State University
Symantha Anderson	Ph.D.	Genetics	2005	Research Scientist, Eli Lilly, Indianapolis, IN
David Morris	M.S.	Animal Science	2003	Post Doc Fellow, University of Michigan. Ann Arbor, MI
Jackie Potts	M.S.	Genetics	2002	Technical Representative LiCor, Nebraska
Matthew Webster	M.S.	Genetics	2002	Medical doctor, Des Moines, IA

*****Served as Co-Major Professor with Dr. Dan Nettleton or Dr. Carolyn Komar

Served as Program of Study Committee Member

Student	Degree	Major	Major Professor	Year
Shika Parsai	M.S.	Genetics	Anne Bronikowski	2013
Hariharan Swaminathan	Ph.D.	Toxicology	Anumantha Kanthasamy	2011
Rafael Nafikov	Ph.D.	Animal Physiology	Don Beitz	2010
Ali Toosi	Ph.D.	Animal Breeding and Genetics	Rohan Fernando	2010
Qing Duan	M.S.	Biochemistry, Biophysics, and Molecular Biology	Don Beitz	2010
Zhiwei Zhai	Ph.D.	Molecular, Cellular, and Developmental Biology	JoAnn Powell-Coffman	2009
Wei Zhao	Ph.D.	Molecular, Cellular, and Developmental Biology	Marit Nielson-Hamilton	2009
Oliver Couture	Ph.D.	Genetics	Chris Tuggle	2009
Ying Liu	Ph.D.	Genetics	Marit Nielson-Hamilton	2009
Benny Mote	Ph.D.	Genetics	Max Rothschild	2008
Shu Zhang	Ph.D.	Biochemistry	Don Beitz	2007
Ben Brooks	M.S.	Animal Physiology	Ted Huiatt	2006
Rahul Bhosle	M.S.	Biochemistry	Rich Robson	2006
Honghua Zhou	Ph.D.	Genetics	Jack Dekkers	2006
Vicki Wilke	Ph.D.	Animal Breeding and Genetics	Max Rothschild	2006
Hongtao Qin	Ph.D.	Molecular, Cellular, and Developmental Biology	JoAnn Powell-Coffman	2005
Milan Joksimovic	Ph.D.	Genetics	Chris Tuggle	2005
Kelly Wilhelms	Ph.D.	Animal Physiology	Colin Scanes	2005
Rafael Nafikov	M.S.	Animal Nutrition	Don Beitz	2004
Kwan-Suk Kim	Ph.D.	Genetics	Max Rothschild	2003
Trevor Lutz	Ph.D.	Animal Nutrition	Tim Stahly	2003
Yvette Chin	M.S.	Genetics	Dan Voytas	2002
Karin E. Krieger	Ph.D.	Genetics	Chris Tuggle	2001

TRAINING AND MENTORING OF POST-DOCTORAL ASSOCIATES

Post Doctoral Fellow	Year	Current Position
James Koltes	2010-Present	Post-doctoral fellow at Iowa State University
Satyanarayana Rachagani	2006-2008	Post-doctoral fellow at the University of Nebraska-Omaha
Yingzhi XU	2005-2006	Post-doctoral at University of Nebraska-Lincoln
Dr. Artur Rosa	2002-2003	Research Scientist, Sao Paulo, Brazil
Dr. David Henderson*	2002	Biolife, Seattle, WA

*Co-Mentor with Dr. Dan Nettleton

TRAINING AND MENTORING OF Visiting Scientists

Scientist	Year	From
Dr. Madhu Tantia	2004	National Bureau of Animal Genetics, India
Dr. Ramesh Vijh	2004,2012	National Bureau of Animal Genetics, India
Dr. Dinesh Kumar	2003-2004 2007-2008	National Bureau of Animal Genetics, India
Dr. Bishnu Mishra	2002-2003, 2009	National Bureau of Animal Genetics, India
Dr. Susan Piripi	2006	Massey University, New Zealand
Dr. Ranjit Kataria	2007, 2010	National Bureau of Animal Genetics, India
Dr. Kathy Parton	2007	Massey University, New Zealand
Dr. Sharat Mehta	2009	National Research Center on Camel, India
Dr. Gyanendra Guar	2009	Project Directorate on Cattle, India
Dr. Anupama Mukherjee	2009	National Research Center on Mithun, India
Dr. Sabyasachi Mukherjee	2010	National Research Center on Mithun, India
Mahmoud Mohamed	2009-2011	Environmental Agricultural Science, Suez Canal University
Dr. Adel Hosseiny	2010	Department of Animal and Poultry Breeding, Desert Research Center, Egypt

Dr. Atul Kolte	2010-2011	National Institute of Animal Nutrition and Physiology. Adugodi, Bangalore
Dr. Srinivasa Ragahavan	2011	Central Marine Fisheries Research Institute (CMFRI) Indian Council of Agricultural Research (ICAR) Cochin, India
Dr. Thilak Pon Jawah Koilpillai	2011	Madras Veterinary College, Chennai, India
Dr. Chandra Mukhapadhyay	2011	Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab-141004; India
Dr. Muhammad Saif-Ur-Rehman	2011-12	University of Agriculture, Faisalabad; Pakistan
Dr. Cunling Jia	2012	Northwest Agricultrueal and Forestry University, Shaanxi, China
Aline Cesar	2012-13	University of Sao Paulo
Priscila Oliveria	2013	University of Sao Paulo
Dr. Amit Kumar	2013	Indian Veterinary Research Institute, ICAR, Iznatnigar, India
Dr. Sanjeev Sighn	2013	National Bureau of Animal Genetics, ICAR, Karnal, India
Dr. Mir Asif Iquebal	2013	Centre for Agricultural Bioinformatics, ICAR, Dehli, India
Dr. Sharika Jaiswal	2013	Centre for Agricultural Bioinformatics, ICAR, Dehli, India
Dr. L. Leslie Prince	2013	Central Sheep and Wool Research Institute, ICAR, Avikanagar, India
Dr. Sajidkhan Yusufzai	2013	Junagadh Agricultural University, Veraval, India
Dr. Rajendran Ramanujam	2013	Tamil Nadu Veterinary and Animal Science University, Chennai, India
Dr. Christine Baes	2013	Bern University of Applied Sciences, Switzerland
Dr. Varun Sankhyan	2013	CSKHPKV Palampur, India

SERVICE IN PROFESSIONAL SOCIETIES, ORGANIZATIONS AND EVENTS

2007-2009	Organizing committee for Plant and Animal Genome meeting. San Diego, CA
2003-Present	Bioinformatics Coordinator, National Sponsored Research Project – 8; USDA-CSREES

2003-2007	Midwest Section, American Society of Animal Science Academic Quadrathalon Laboratory Practical Exam Coordinator, Ames, IA. Served as coordinator to develop and administer a laboratory practical exam to students from 16 universities in the annual contest.
2002, 2001, 2000	Midwest Section, American Society of Animal Science Graduate Paper Competition. Served on a panel of judges to evaluate presentations made by M.S. and Ph.D. students. (Chair in 2002).

RESEARCH

GRANT ACTIVITY IS DIVIDED INTO LISTS IN WHICH THE CANDIDATE WAS EITHER THE PRINCIPAL INVESTIGATOR, CO-PRINCIPAL INVESTIGATOR OR COLLABORATOR (PRINCIPAL INVESTIGATOR IS LISTED FIRST).

Principal Investigator

	Investigators	Source	Title	Year
1.	**James Reecy**	American Angus Association	Identification of molecular markers for carcass and meat quality traits	2000
2.	**James Reecy**	Elanco	Molecular mode of action of ractopamine	2001
3.	**James Reecy**	American Heart Association	Repression of gene expression by Tbx2 during heart formation	2001-2004
4.	**James Reecy**	Cargill, Inc.	Development of functional genomic resources for cattle	2001-2004
5.	**James Reecy**	USDA-NRICGP	Identification of molecular mechanisms repressing skeletal muscle growth	2001-2005
6.	**James Reecy**, Jack Dekkers, Gene Rouse, and Doyle Wilson	USDA-CSREES Special Grant	National beef cattle evaluation consortium	2003-2004
7.	**James Reecy**, Sue Lamont, Max Rothschild, and Chris Tuggle	USDA-CSREES	NRSP-8 database coordinator	2003-2008

8.	**James Reecy**	American Angus Association	Dwarfism in American Angus	2004
9.	**James Reecy**	ISU – Center for Integrated Animal Genomics	Molecular mechanisms regulating muscle growth and meat quality	2004-2006
10.	**James Reecy**, Rohan Fernando	USDA-CSREES Special Grant	National beef cattle evaluation consortium	2004-2006
11.	**James Reecy,** Don Beitz	National Cattleman's Beef Association	A preliminary study on variation in healthfulness of beef from different breeds	2006
12.	**James Reecy**	USDA-CSREES Special Grant	National beef cattle evaluation consortium	2006-2007
13.	**James Reecy,** Jack Dekkers, Elisabeth Huff-Lonergan	USDA-NRI	Identification of modifier genes of myostatin affecting growth, body composition, and gene expression	2006-2009
14.	**James Reecy**, Dorian Garrick, Rohan Fernando, Donald Beitz	Pfizer Animal Genetics	Utilization of natural genetic variation	2007 - 2011
15.	**James Reecy,** Elizabeth Huff-Lonergan, Jack Dekkers, Dorian Garrick, Don Beitz	ISU – Center for Integrated Animal Genomics	Molecular mechanisms regulating muscle growth and meat quality	2008-2009
16.	**James Reecy,** Anne Kwitek, Vasant Honavar	USDA-NRI	Development of bioinformatic resources to transfer biological information across species	2008-2012
17.	**James Reecy**, Sue Lamont, Max Rothschild, and Chris Tuggle	USDA-CSREES	NRSP-8 database coordinator	2008-2013
18.	**James Reecy,** Elizabeth Huff-Lonergan, Jack Dekkers, Dorian Garrick, Don Beitz	ISU – Center for Integrated Animal Genomics	Molecular mechanisms regulating muscle growth and meat quality	2009-2010
19.	**James Reecy**	National	Tracking individual	2010-

		Cattlemen's Beef Association	animal responses to preconditioning vaccines, is there a correlation between management strategies or individual response to vaccination and carcass quality.	2011
20.	**James Reecy**, Dorian Garrick, Don Beitz	ISU – Center for Integrated Animal Genomics	Molecular mechanisms regulating muscle growth and meat quality	2011-2012
21.	**James Reecy**, Dorian Garrick, Susan Lamont	USDA-CSREES-SERD National Needs Fellowship Grant 2012	An IntegrateD Educational Approach (IDEA): Combined Computational and Genomics Education in Livestock	2012-2017
22.	**James Reecy**	Pfizer Animal Health	Association between the fecal microbiome and growth and carcass traits in beef cattle	2012-2013
23.	**James Reecy**, Sue Lamont, Max Rothschild, Chris Tuggle, Fiona McCarthy	USDA-CSREES	NRSP-8 database coordinator	2008-2013
24.	**James Reecy**	Department of Animal Science	Determining the extent to which resident fecal microbial populations are associated with growth and carcass traits in cattle	2012-2013
25.	**James Reecy,** Matt Vaghn, Dan Stanzione	USDA-NIFA	Development of systems informatics tools to accelerate livestock genomics	2013-2016
26.	**James Reecy**, Dorian Garrick, Julia Ridpath, Tim Smith	USDA-NIFA	Enhancing Host Genetic Resistance to Bovine Respiratory Disease Complex	2013-2016
27.	**James Reecy,** Muhammad Moaeen-ud-Din	National Academy of Science	Collaborative Research for Genetic Conservation and Improvement of Pakistani Goats	2013-2016

Co-Principal Investigator

	Investigators	Source	Title	Year
28.	Don Beitz, Allen Trenkle, **James Reecy**, Jeff Berger, Travis Knight, and Amiee Wertz	Center for Designing Foods in Nutrition	Redesigning beef cattle to have a more healthful fatty acid composition	2002-2004
29.	Roger Wise, **James Reecy**, Chris Tuggle, and Steve Whitham	National Science Foundation	Acquisition of Affymetrix GeneChip microarray instrumentation	2002-2007
30.	Don Beitz and **James Reecy**	ISU College of Agriculture	Microarray analysis of gene expression in response to fatty liver and glucagon treatment	2003-2004
31.	Carolyn Komar and **James Reecy**	ISU University Research Grant	Regulation of gene expression in the ovary by PPARgamma	2003-2004
32.	Chris Tuggle, **James Reecy**, Rod Geisert, and Joan Lunney	USDA/CSREES/ NRICGP	Identifying molecular genetic mechanisms controlling pig litter size: Expression profiling of peri-implantation conceptus and endometrium	2003-2006
33.	**James Reecy** and Elizabeth Huff-Lonergan	ISU – Center for Integrated Animal Genomics	Molecular mechanisms controlling cardiac and skeletal muscle growth and development	2004-2006
34.	Vasant Honovar, **James Reecy**	ISU – Center for Integrated Animal Genomics	Proposal for collaborative building environment of animal trait	2005-2006
35.	Elizabeth Huff-Lonergan and **James Reecy**	Iowa State University- Special Research Initiation Grant	Identification of differentially expressed proteins in a model of enhanced skeletal muscle growth	2005-2006

36.	Donald Beitz, Travis Knight, **James Reecy**, Diane Moody, and P. Jeffrey Berger	Center for Designing Foods in Nutrition	Improving the healthfulness of milk fatty acid composition by identifying markers for selection	2005-2006
37.	Jerry Taylor, Eric Antoniou, Christine Elsik, Scott Fahrenkrug, **James Reecy** Russ Wolfinger	USDA/CSREES/ NRICGP	Construction, characterization, and application of a bovine oligonucleotide microarray	2005-2007
38.	Don Beitz, **James Reecy**, Travis Knight, Alan Trenkle, Jenny Minick	USDA-NRI	Genetic analysis of fatty acid composition of beef and milk developing tools for use in selection	2005-2008
39.	Chris Tuggle, **James Reecy,** Qijing Zhang, Lisa Nolan	USDA/CSREES/ HEP – Food and Agricultural Sciences National Needs Graduate Fellowship program	National needs training grant in animal molecular biology, genomics, and bioinformatics	2005-2008
40.	Max Rothschild, **James Reecy**	Iowa State University	Uganda animal breeding and production project	2006
41.	Joan Lunney, Bob Rowland, **James Reecy**	National Pork Board	PRRS host genetics consortium: A proposal to develop a consortium to study the role of host genetics and resistance to PRRSV	2008-2009
42.	Milt Thomas, Rohan Fernando, John Pollak, Bob Weber, **James Reecy**	USDA-NRI	Identification of molecular markers to improve fertility in beef cattle	2008-2010

43.	Joan Lunney, Bob Rowland, **James Reecy**	National Pork Board	PRRS host genetics consortium: A proposal to develop a consortium to study the role of host genetics and resistance to PRRSV	2009-2010
44.	Amanda Weaver, Aimee Wertz, Robbi Pritchard, **James Reecy**	USDA-AFRI	Impact of maternal nutrition on expression of genes regulating offspring growth, carcass composition, and meat quality	2009-2013
45.	Joan Lunney, Bob Rowland, **James Reecy**	National Pork Board	PRRS host genetics consortium: A proposal to develop a consortium to study the role of host genetics and resistance to PRRSV	2010-2011
46.	Joshua Selsby, **James Reecy**	ISU – Center for Integrated Animal Genomics	mRNA expression in early dystrophin-deficiency	2011-2012
47.	Amanda Ramer-Tait, **James Reecy**	College of Veterinary Medicine Seed Grant Program	Elucidating the role of $CD4^+$ T cells during host immune responses to commensal gastrointestinal microbiota	2011-2012
48.	**J. Dekkers** R. Fernando C. Tuggle J. Reecy	Genome Canada	Canadian Component of the PRRS Host Genetics Consortium	2011-2012
49.	Joan Lunney, **James Reecy**	National Pork Board	PRRS Host Genetics Consortium: A proposal to continue consortium work to study the role of host genetics and resistance to PRRSV	2012-2013
50.	Jack Dekkers, Chris Tuggle, Joan Lunney, Bob Rowland, **James Reecy**, Andrea Wilson, Montserrat Torremorell	USDA-AFRI	Genetically Improving Resistance of Pigs to PRRS Infection	2012-2015

51.	Dorian Garrick, Jack Dekkers, Rohan Fernando, **James Reecy**, Max Rothschild, Bruce Golden	USDA-AFRI	Enhanced Bioinformatics to Implement Genomic Selection (e-BIGS)	2012-2013

Collaborative Investigator

	Investigators	Source	Title	Year
1	Chris Tuggle (Co-PI) Susan Carpenter (Co-PI), Ten Collaborators including **James Reecy**	USDA/CSREES/HEP – Food and Agricultural Sciences National Needs Graduate Fellowship program	USDA national needs animal biotechnology fellowship	1999-2004
2	Chris Tuggle (Co-PI) Susan Carpenter (Co-PI), Hal Stern (Co-PI) and Thirty Collaborators including **Dr. Reecy**	USDA-IFAFS-MGET	Graduate training in computational biology for animal agriculture	2001-2005
3	Chris Tuggle (Co-PI) Susan Carpenter (Co-PI), Ten Collaborators including **Dr. Reecy**	USDA/CSREES/ HEP – Food and Agricultural Sciences National Needs Graduate Fellowship program	USDA national needs animal biotechnology fellowship	2002-2007
4	Jack Dekkers Dan Nettleton Rohan Fernando Max Rothschild, Ten Collaborators including **Dr. Reecy**	USDA-CSREES-SERD National Needs Fellowship Grant 2006-04320	Training in the development and application of quantitative methods and tools for animal genomics	2006-2011
5	Jack Dekkers Dan Nettleton Rohan Fernando Max Rothschild, Ten Collaborators including **Dr. Reecy**	USDA-CSREES-SERD National Needs Fellowship Grant 2008	Training in the development and application of quantitative methods and tools for animal genomics	2008-2013

6	Sue Lamont Max Rothschild Chris Tuggle, Ten Collaborators including **Dr. Reecy**	USDA-CSREES-SERD National Needs Fellowship Grant 2011	Training in the development and application of quantitative methods and tools for animal genomics
7	Diane Spurlock Max Rothschild	USDA-CSREES-SERD National Needs Fellowship Grant 2013	Training in the development and application of quantitative methods and tools for animal genomics

LEADERSHIP POSITIONS

Director of the Office of Biotechnology.

The candidate is the Director of the Office of Biotechnology at Iowa State University. The Office oversees 13 core biotechnology related facilities ranging from DNA to protein to metabolites to bioinformatics. The annual budget of the Office of Biotechnology is approximately $4.5 million. As director, Dr. Reecy reports directly to the Vice President of Research an Economic Development. In 2009, Dr. Reecy headed a taskforce to review all biotechnology related core facilities, which has resulted in the transfer of one core facility (Proteomics) from the Plant Science Institute to the Office of Biotechnology, discontinuing one facility (Affymetrix GeneChip) and starting a new facility (Genome Informatics).

National Research Sponsored Program-8 (USDA/CSREES) Database Coordinator.

The candidate is leading a collaborative effort with Drs. Sue Lamont, Max Rothschild, and Chris Tuggle. This national coordinator position is to promote, develop, and implement bioinformatic and database activities in domestic animal species, such as beef and dairy cattle, sheep, swine, chickens, turkeys, horses, and fish.

EXTENSION/PROFESSIONAL PRACTICE

National Beef Cattle Evaluation Consortium (2003 – Present)

The candidate has served as one of five academic members on the Board of Directors. The mission of the Consortium is to (1) develop and implement improved methodologies and technologies for genetic evaluation of beef cattle for the purpose of maximizing the impact genetic programs have on the economic viability, international competitiveness, and sustainability of U.S. beef cattle producers and to (2) provide consumers with affordable and healthy beef products.

John M. Airy Beef Cattle Symposium May 2003, January 2006, January 2008

The candidate served as the Chair of the organizing committee (Included S. Lamont, M. Rothschild, and D. Strohbehn). The symposium series has featured invited talks on beef cattle and swine quantitative and molecular genetics, and has been attended by approximately 400 individuals representing more than 20 countries.

Integration of Structural and Functional Genomics. September 22-25, 2005

The candidate served as a member of the organizing committee (Included C. Tuggle, V. Honavar, J. Dekkers, M. Nilson-Hamilton). The symposium featured 23 invited talks on structural and functional genomics, and was attended by approximately 140 individuals.

INSTITUTIONAL SERVICE

Department of Animal Science

1999-2002	Chuckwagon Breakfast Committee
2001-2003	Animal Science Seminar Committee
2002-2003	Companion Animal Faculty Search Committee
2003	Writing Sub-Committee for Departmental Self Study Document
2003-Present	Graduate Curriculum Committee
2004-2005	Faculty Advisor for the Block and Bridle Club
2011-2012	Seminar Committee
2012-13	Social Committee, Chair

College of Agriculture, Family and Consumer Sciences, Liberal Arts and Sciences

2000-2001	Molecular, Cellular and Developmental Biology Curriculum Committee
2001-2003	Interdepartmental Genetics Admissions Committee
2001-2005	Molecular, Cellular and Developmental Biology Recruitment Committee
2003-2004	Genetics, Cellular, and Developmental Biology Faculty Search Committee
2007-2011	Molecular, Cellular and Developmental Biology Executive Committee

Iowa State University

2001-2004	University Committee on Animal Care
2002-Present	Affymetrix Core Facility Oversight Committee
2002-Present	Biotechnology DNA Sequencing and Synthesis Facility Advisory Committee
2003-2006	Biotechnology Council Representative
2007-Present	University Animal Facilities Supervisory Committee
2009-Present	Director, Office of Biotechnology
2009	Chair of Core Facilities review committee
2012	Chair of INTRANS chair search committee
2012-13	Presidential Institutional Excellence Committee – Increasing External Funding
2012-Present	Presidential Institutional Interdisciplinary Research Initiative
2013	Plant Science director search committee
2013-Present	Co-Chair Presidential Institutional Excellence Committee