



U.S. Food and Drug Administration

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ALISON LOUISE VAN EENENNAAM

1. EDUCATION

- 1997 Doctor of Philosophy in Genetics**
University of California, Davis
- 1990 Master of Science**
University of California, Davis
- 1987 Bachelor of Agricultural Science with Honors**
The University of Melbourne, Australia
Major Animal Science

2. PROFESSIONAL EXPERIENCE

- Promotion effective July 2010 **COOPERATIVE EXTENSION SPECIALIST IN ANIMAL BIOTECHNOLOGY AND GENOMICS**, Department of Animal Science, University of California, Davis
- July 2006
- June 2010 **ASSOCIATE COOPERATIVE EXTENSION SPECIALIST IN ANIMAL BIOTECHNOLOGY AND GENOMICS**, Department of Animal Science, University of California, Davis
- September 2002
- June 2006 **ASSISTANT COOPERATIVE EXTENSION SPECIALIST IN ANIMAL BIOTECHNOLOGY AND GENOMICS**, Department of Animal Science, University of California, Davis
- July 2000
- June 2002 **PROJECT LEADER**, Monsanto, Calgene Campus
Davis, CA, U.S.A.
- July 1998
- June 2000 **RESEARCH SCIENTIST**, Monsanto, Calgene Campus
Davis, CA, U.S.A.
- January 1991
- September 1993 **REGIONAL DAIRY AND LIVESTOCK FARM ADVISOR (COUNTY AGENT)**,
University of California Cooperative Extension,
San Joaquin and Sacramento Counties, CA, U.S.A.
- July 1987 to
- April 1988 **DEVELOPMENT SCIENTIST**
Coopers Animal Health
New South Wales, Australia
- April 1984 to
- November 1984 **INTERNATIONAL AGRICULTURAL EXCHANGE ASSOCIATION TRAINEE**
Genetic Resources Inc., Bovine Reproduction Facility
San Marcos, TX, U.S.A.

3. PROFESSIONAL COMMITTEE APPOINTMENTS

- Appointed by the Secretary of Agriculture to the national USDA 16568 – “**Advisory Committee on Biotechnology and 21st Century Agriculture (AC21)**”. This committee examines “the long-term impacts of biotechnology on the U.S. food and agriculture system and USDA, and provides guidance to USDA on pressing individual issues, identified by the Office of the Secretary, related to the application of biotechnology in agriculture.” (6/2005-present)
- Appointed to be the National Cooperative Extension Representative on the National Beef Cattle Evaluation Consortium Advisory Committee (NBCEC) (6/2005-present)
- California Beef Cattle Improvement Association (CBCIA) Advisor (2004-present)

4. AWARDS

- 2010 National Award for Excellence in Extension, Association of Public and Land-grant Universities
- 2010 American Society of Animal Science, Western Section Extension Award
- 2010 Association for Communication Excellence (ACE) Bronze Award for Animal Biotechnology Educational Video Production
- 2009 University of California Agriculture and Natural Resources “Outstanding New Professional Distinguished Service Award 2009”
- 2009 University of California, Davis “2009 Academic Federation Award for Excellence in Research”
- 2009 The Communicator “Award of Distinction” for “*Animal Biotechnology*” video production
- 2008 The Communicator “Award of Distinction” for “*Cornucopia’s Challenge*” video
- 2005 The Communicator “Award of Distinction” for “*Genetic Engineering in California Agriculture*” video, The National Association of County Agricultural Agents (NACAA) Communication Award State and National, First Place Winner for website entry “*ucbiotech.org*” (joint entry with Peggy Lemaux, UC Berkeley), The NACAA Communication Award State Winner and National Finalist for video entry “*Genetic Engineering in California Agriculture*”, The NACAA Program “Search for Excellence” Awards. State Winner for “*Animal Genomics and Biotechnology Extension Program.*”

5. GRANT FUNDING RECORD

ACTIVE

- **Integrating DNA information into beef cattle production systems.** USDA-NRI ANIMAL GENOME INTEGRATED GRANT 1/1/2009-12/31/2012 (b) (6) A. L. Van Eenennaam (PI)
- **Economic analysis of integrating DNA information into beef cattle production systems.** UC Davis Academic Federation Professional Development Award. 7/1/09-6/30/10 (b) (6) A. L. Van Eenennaam (PI)
- **Whole genome associations for sire prolificacy on California commercial beef cattle ranches.** University of California/California State University Collaborative Research Program. 1/1/10-12/31/10. (b) (6) A. L. Van Eenennaam (Co PI) and B L. Golden (Co PI)
- **Alterations in membrane composition and function with calorie restriction.** NIH RO1 10/1/07 - 9/30/12 (b) (6) Jon Ramsey (PI). Collaborator A. L. Van Eenennaam
- **Assessment of the well-being and behavior of genetically engineered dairy goats.** USDA-NRI 10/1/05 – 6/30/10 (b) (6) E. Maga, J. Murray, J. Mench and A. L. Van Eenennaam (Co-PI)

COMPLETED

- **2009 Beef Improvement Federation Annual Research Symposium and Annual Meeting.** USDA-NRI ANIMAL GENOME Conference Grant \$ (b) (6) 1/1/2009-12/31/2009 A. L. Van Eenennaam (PI)
- **2009 Beef Improvement Federation Conference.** UC Davis CA&ES Programmatic Initiatives. Conference grant. (b) (6) A. L. Van Eenennaam (PI)
- **2009 Beef Improvement Federation Conference. California Beef Council. FY 2009 Proposal.** Conference support grant. (b) (6) A. L. Van Eenennaam (PI)
- **Development of an Integrated Animal Identification and Tracking System.** University of California Core Issues Grant 3/1/07-2/28/09 (b) (6) A. L. Van Eenennaam (PI)
- **Biological containment of genetically engineered fish.** USDA – BRAG Biotechnology Risk Assessment 9/1/05-8/31/08 \$ (b) (6) A. L. Van Eenennaam (PI)
- **Validation of new technologies for beef cattle improvement.** California Cattlemen’s Livestock

5. GRANT FUNDING RECORD: COMPLETED GRANTS (Continued)

- Memorial Research Fund. 7/1/05 – 6/30/06 (b) (6) A. L. Van Eenennaam (PI)
- **Animal Identification Outreach Contract.** California Department of Food and Agriculture 07/01/2005 - 06/30/2006 (b) (6) . A. L. Van Eenennaam (PI)
- **Coexistence of Diverse Production Systems in California Agriculture Development of Science-based Educational Materials and Outreach Programs.** UC ANR Core Issues Grant. 3/1/05 – 2/28/06 (b) (6) . A. L. Van Eenennaam (PI)
- **Functionality of recombinase/fluorescent marker fusion proteins in eukaryotes.** UC Davis Academic Federation Research Grants Program Innovative Development Awards (b) (6) 7/1/05-6/30/2006 A. L. Van Eenennaam (PI)
- **Using replacement heifers to estimate carcass quality of herd mates.** California Beef Cattle Improvement Association. 5/2005 (b) (6) . A. L. Van Eenennaam (PI)
- **Using replacement heifers to estimate carcass quality of herd mates.** California Beef Cattle Improvement Association. 5/2004 (b) (6) . A. L. Van Eenennaam (PI)
- **Pilot Study on Mammary Expression of Novel Desaturases.** NIH NICHD R03 Small Grants Program. 7/1/04 – 6/30/06. (b) (6) . A. L. Van Eenennaam (PI)
- **Identification and characterization of the lysophosphatidic acid acyltransferase from the echidna (*Tachyglossus aculeatus*) mammary gland.** NSF Women's International Science Collaboration (WISC) Travel Grant Program. (b) (6) A. L. Van Eenennaam (PI)

6. REFEREED PUBLICATIONS

1. Van Eenennaam, A. L., J.H. van der Werf, and M.E. Goddard. 2010. The value of using DNA markers for beef bull selection in the seedstock sector. *Journal of Animal Science*. *Accepted*
2. Hagopian, K., K. L. Weber, D. T. Hwee, A. L. Van Eenennaam, G. López-Lluch, J. M. Villalba, I. Burón, P. Navas, J. B. German, S. M. Watkins, K. A. Simmons Domer, Y. Chen, A. Wei, R. B. McDonald, and J. J. Ramsey 2010. Complex I hydrogen peroxide production is decreased and electron transport chain enzymes activities are altered in n-3 enriched *fat-1* mice. *PLoS ONE*. *Accepted*.
3. Van Eenennaam, A.L. and W.M. Muir. 2010. Animal biotechnologies and agricultural sustainability. Chapter in “*The Role of Biotechnology in a Sustainable Food Supply*.” Cambridge University Press. *In press*.
4. Fahrenkrug, S. C., A. Blake, D. F. Carlson, T. Doran, A. L. Van Eenennaam, D. Faber, C. Galli, P. B. Hackett, N. Li, E. A. Maga, J. D. Murray, R. Stotish, E. Sullivan, J. F. Taylor, M. Walton, M. Wheeler, B. Whitelaw, B. P. Glenn. 2010. Precision Genetics for Complex Objectives in Animal Agriculture. *Journal of Animal Science*. *In press*. Mar 12. [Epub ahead of print]. PMID: 20228236
5. Wong, A.C., and A. L. Van Eenennaam. 2010. FLPe functions in zebrafish embryos. *Transgenic Research*. *In press*.
6. W. E. Pohlmeier, R. C. Hovey, and A. L. Van Eenennaam. 2010. Reproductive abnormalities in mice expressing omega-3 fatty acid desaturase in their mammary glands. *Transgenic Research*. *In press*
7. Van Eenennaam, A. L., K. L. Weber, K. Coopriider, and D. J. Drake. 2010. Development and implementation of a vertically-integrated beef cattle data collection system. *California Agriculture*. 64: 94-100.
8. Van Eenennaam, A. L., and J. F. Medrano. 2008. Manipulation of Milk Fat Composition Through Transgenesis, pages 343-354 in “*Bioactive Components in Milk*”, Volume 606 of *Advances in Experimental Medicine and Biology*. Edited by Z. Bösze. Springer. 483 pp.
9. W. Pohlmeier, and A. L. Van Eenennaam. 2008. Animal Biotechnology. 30 minute UC ANR peer-reviewed video. <http://animalscience.ucdavis.edu/animalbiotech/Outreach>.

6. REFEREED PUBLICATIONS (continued)

10. Wong, A. C., and A. L. Van Eenennaam. 2008. Transgenic Approaches for the Reproductive Containment of Genetically Engineered Fish. *Aquaculture*. 2751-12.
11. Van Eenennaam, A. L., R. L. Weaver, D. J. Drake, M. C. T. Penedo, R. L. Quaas, D. J. Garrick, E. J. Pollak. 2007. DNA-based paternity analysis and genetic evaluation in a large commercial cattle ranch setting. *Journal of Animal Science*. 853159–3169
12. Van Eenennaam, A. L., J. Li, R. M. Thallman, R. L. Quaas, M. E. Dikeman, C. A. Gill, D. E. Franke, M. G. Thomas. 2007. Validation of commercial DNA tests for quantitative beef quality traits. *Journal of Animal Science*. 85891-900.
13. Van Eenennaam, A. L., and P. G. Lemaux 2007. Cornucopia’s Challenge. 30 minute UC ANR peer-reviewed video. University of California, Division of Agriculture and Natural Resources. 6587V (VHS) or 6587D (DVD). Also available on www.YouTube.com
14. K. D. Bongiovanni, E. J. DePeters, and A. L. Van Eenennaam. 2007. Neonatal Growth and Development of Mice Raised on Milk Transgenically-Enriched with Omega-3 Fatty Acids. *Pediatric Research*. 62(4)412-6.
15. Kao, B. T., E. J. DePeters, and A. L. Van Eenennaam. 2006. Mice Raised on Milk Transgenically-Enriched with n-3 PUFA have Increased Brain Docosahexaenoic Acid. *Lipids*. 41(6)543-9.
16. Kao, B. T., K. A. Lewis, E. J. DePeters, and A. L. Van Eenennaam. 2006. Endogenous Production and Elevated Levels of Long-Chain n-3 Fatty Acids in the Milk of Transgenic Mice. *Journal of Dairy Science*. 893195-3201.
17. Van Eenennaam, A. L. and P. G. Olin. 2006. Genetically engineered fish. *California Agriculture*. 60(3) 126-131.
18. Van Eenennaam, A. L. 2006. What is the future of animal biotechnology? *California Agriculture*. 60(3) 132-139.
19. Van Eenennaam, A. L. 2006. “DNA-Based Biotechnologies” Chapter in the National Beef Cattle Evaluation Consortium (NBCEC) Beef Sire Selection Manual. Pages 66-73.
20. Van Eenennaam, A.L. 2005. Genetic Engineering and Fish. UC ANR, Agricultural Biotechnology in California Series, Publication # 8185.
21. Van Eenennaam, A.L. 2005. Genetic Engineering and Animal Agriculture. UC ANR, Agricultural Biotech in California Series, Publication # 8184.
22. Van Eenennaam, A.L. 2005. Genetic Engineering and Animal Feed. UC ANR, Agricultural Biotechnology in California Series, Publication # 8183.
23. Morimoto, K. C., A. L. Van Eenennaam, E. J. DePeters, and J. F. Medrano. 2005. Hot Topic Endogenous Production of Omega-3 and Omega-6 Fatty Acids in Mammalian Cells. *Journal of Dairy Science*. 88(3) 88(3) 1142-1146.
24. Wong, A.C., and A.L. Van Eenennaam. 2004. Gonadotropin hormone and receptor sequences from model teleost species. *Zebrafish*. 1(3)203-221.
25. Van Deynze, A. Van Eenennaam, A.L. and Bradford, K.J. 2004. Crop Biotechnology Feeds for Livestock. UC ANR, Agricultural Biotechnology in California Series, Publication # 8145.
26. Van Eenennaam, A. L. 2004. Genetic Engineering in California Agriculture. 30 minute UC ANR peer-reviewed video. ANRUCTV 04-06. 6502V (VHS) or 6502D (DVD).
27. Van Eenennaam, A. L. 2004. DNA-based Marker-Assisted Selection in Beef Cattle. Genetic Section - CL1043 in “Cow-Calf Management Guide & Cattle Producer’s Library”. University of Idaho, Moscow.
28. Van Eenennaam, A. L., G. Li, M. Venkatramesh, C. Levering, X. Gong, A. C. Jamieson, C. K. Shewmaker, and C. C. Case. 2004. Elevation of seed α -tocopherol levels using plant-based transcription factors targeted to an endogenous locus. *Metabolic Engineering*. 6(2)101-8.
29. Van Eenennaam, A. L., Kim Lincoln, Timothy P. Durrett, Henry E. Valentin, Christine K. Shewmaker, Greg M. Thorne, Jian Jiang, Susan R. Norris, and Robert L. Last. 2003. Engineering

6. REFEREED PUBLICATIONS (continued)

- vitamin E content from Arabidopsis mutant to soy oil. *Plant Cell*. 15 3007-3019.
30. Van Eenennaam, A. L., J. D. Murray, and J. F. Medrano. 1999. Karyotype of the American green sturgeon. *Transactions of the American Fisheries Society* 128175-177.
 31. Van Eenennaam, A. L., Van Eenennaam, J.P., Medrano, J.F., and Doroshov, S.I. 1999. Evidence of female heterogametic genetic sex determination in white sturgeon. *The Journal of Heredity* 90 231-233.
 32. Van Eenennaam, A. L., J. D. Murray, and J. F. Medrano. 1998. Mitotic analysis of the North American white sturgeon, *Acipenser transmontanus* Richardson (Pisces, Acipenseridae), a fish with a very high chromosome number. *Genome* 41266-271.
 33. Van Eenennaam, A. L., J. D. Murray, and J. F. Medrano. 1998. Synaptonemal complex analysis in spermatocytes of white sturgeon, *Acipenser transmontanus* Richardson (Pisces, Acipenseridae), a fish with a very high chromosome number. *Genome* 4151-61.
 34. Van Eenennaam, A. L., J. P. Van Eenennaam, J. F. Medrano, and S. I. Doroshov. 1996. Rapid verification of meiotic gynogenesis and polyploidy in white sturgeon (*Acipenser transmontanus* Richardson). *Aquaculture* 147177-189.
 35. Van Eenennaam, A. L., I. A. Gardner, J. Holmes, L. Perani, R. J. Anderson, J. S. Cullor, and W. M. Guterbock. 1995. Financial analysis of alternative treatments for clinical mastitis associated with environmental pathogens. *Journal of Dairy Science* 782086-2095.
 36. Cullor, J. S., A. L. Van Eenennaam, I. A. Gardner, L. Perani, J. Dellinger, W. L. Smith, T. Thompson, M. A. Payne, L. Jensen, and W. Guterbock. 1994. Performance of various tests used to screen antibiotic residues in milk samples from individual animals. *J. AOAC Int.* 77 862-870.
 37. Guterbock, W. M., A. L. Van Eenennaam, R. J. Anderson, I. A. Gardner, J. S. Cullor, and C. A. Holmberg. 1993. Efficacy of intramammary antibiotic therapy for treatment of clinical mastitis caused by environmental pathogens. *Journal of Dairy Science* 763437-3444.
 38. Van Eenennaam, A. L., J. S. Cullor, L. Perani, I. A. Gardner, W. L. Smith, J. Dellinger, W. M. Guterbock, and L. Jensen. 1993. Evaluation of milk antibiotic residue screening tests in cattle with naturally occurring clinical mastitis. *Journal of Dairy Science* 763041-3053.
 39. Van Eenennaam, A. L., and J. F. Medrano. 1991. Milk protein polymorphisms in the California dairy cattle population. *Journal of Dairy Science* 741730-1742.
 40. Van Eenennaam, A. L., and J. F. Medrano. 1991. Differences in allelic protein expression in the milk of heterozygous K-casein cows. *Journal of Dairy Science* 741491-1496.

7. OUTREACH PRESENTATIONS (Chronological since Appointment 2002)

1. "Animal Biotechnology" Women in Technology Program (WIT) at Armijo High School in Fairfield, CA 3/12/03
2. "Overview of Transgenic Fish" California Aquaculture Association Annual Convention, Reno, NV 3/13/03
3. "Animal Biotechnology to Improve Quality of Animal Products" U.S. State Department Project for Europe International visitors group, UC Davis, CA 6/23/03
4. "Marker Assisted Selection – Current and Future Applications" Beef Cattle producers at CalPoly Beef Cattle Field Day, San Luis Obispo, CA 10/4/03
5. "Markers and Beef Genetics, An Update", University of California Cooperative Extension (UCCE) Beef Workgroup at California Cattlemen's Association Annual Meeting, Sparks, NV 11/19/03
6. "Animal Biotechnology" the Ukiah Employers Council of Mendocino County, CA 1/16/04
7. "The Use of Biotechnology in Animal Agriculture" the Animal Science Dept., UC Davis, CA 2/9/04
8. "Marker Assisted Selection – Current and Future Applications" UCCE Oakdale Livestock Forum, Livestock Forum, Oakdale, 2/24/04

7. OUTREACH PRESENTATIONS (continued)

9. “Marker Assisted Selection – Current and Future Applications” UCCE Siskiyou County Cattlemen’s meeting, Yreka, CA 2/26/04
10. “Marker Assisted Selection – Current and Future Applications” UCCE Winter Ag meeting, McArthur, CA 2/27/04
11. “Marker Assisted Selection – Current and Future Applications” UCCE Winter Animal Health Forum, Cottonwood, CA 2/28/04
12. “Animal Biotechnology” UC Connect Sacramento Regional Life Sciences Summit, Sacramento, CA 3/4/04
13. “Use of gene markers in beef breeding – what producers need know” at UC Sierra Foothill Research and Extension Center, CA 4/15/04
14. “Marker Assisted Selection – Current and Future Applications” Lake County Cattlemen’s Association Beef Cattle Quality Assurance meeting, Lakeport, CA 4/17/04
15. “Use of DNA markers in cattle as a selection tool” West Stanislaus Resource Conservation District, Del Puerto Canyon, CA 4/21/04
16. “Genomics and Biotechnology in the Animal Sciences American Registry of Professional Animal Scientists (ARPAS) – California chapter, Fresno, CA 5/5/04
17. “DNA, SNPs, MAS and GMOs – Making Sense of Biotech Babble” COIN (California, Oregon, Idaho, and Nevada Cooperative Extension Livestock Advisor Meeting) Union, OR, 5/11/04
18. “Modification of the fatty acid composition of poultry products to benefit human health” Origen therapeutics, Burlingame, CA 6/14/04
19. “Animal Biotechnology and Anti-Genetic Engineering Initiatives” at the Farm Bureau Biotech Summit meeting, Sacramento, CA 5/14/04
20. “Biotechnology 101” UCCE personnel from GE-ordinance counties and Agricultural Commissioners, Davis, CA 6/22/04
21. “Biotechnology 101” UCCE personnel from GE-ordinance counties and Agricultural Commissioners, Monterey, CA 6/29/04
22. “Using Replacement Heifers to Estimate Carcass Quality of Herdmates” California Beef Cattle Improvement Association, Sacramento, CA 7/8/2004
23. “Use of GE crops in CA agriculture and Animal Biotechnology” UC Davis Department of Animal Science Cooperative Extension Update, CA 7/12/04
24. “Genetic Engineering in California Agriculture” Santa Cruz County Agricultural Policy Advisory Commission, Santa Cruz, CA 9/16/04
25. “County GE-free initiatives and their implications on field research with genetically engineered crops” UCCE Small Grains workgroup, Davis, CA 9/22/04
26. “County-based GE-free initiatives – Status and efforts to bring science back to the debate” California Association of Farm Advisors and Specialists (CAFAS) annual meeting, Woodland, CA 10/27/04
27. “Genetic Engineering in California Agriculture Bring Science into the Dialogue” Western Region Extension Professional Development Conference, Woodland, CA 10/28/04.
28. “Genetic Engineering in California Agriculture” UCCE Pest Management Coordinating Conference, Riverside, CA 11/2/04
29. “Biotechnology current and future role in selection decisions for beef producers” Oregon Cattlemen’s Association Annual Convention, Redmond, OR 11/4/04
30. “Biotechnology current and future role in selection decisions for beef producers” and “Ultrasound as a biotechnology to improve carcass traits” Cattlemen’s College at California Cattlemen’s Annual Convention, Sacramento, CA 11/13/04
31. “County-based GE-Free Initiatives” Calgene, Davis, CA 12/6/2004
32. “Genetic Engineering in California Agriculture” UCCE San Benito County Continuing Education Seminar, Hollister, CA 12/9/2004

7. OUTREACH PRESENTATIONS (continued)

33. “NC1010 Interpreting Cattle Genomic Data Biology, Applications and Outreach – California Station Report” at Plant and Animal Genome Conference, San Diego, CA 1/15/2005
34. “Genetic Engineering in California Agriculture” Tulare Ag Expo, CA 2/8/2005
35. “Great Expectations DNA and the cattle industry” UCCE Siskiyou County Cattlemen’s meeting, Yreka, CA 2/17/05
36. “Great Expectations DNA and the cattle industry” UCCE Lassen County Cattlemen’s meeting, Susanville, CA 3/7/2005
37. “Genetic Engineering in California Agriculture” California Agriculture Symposium, Sacramento, CA 3/23-24/2005
38. “Genetic Engineering in California Agriculture” Sonoma American Association of University Women (AAUW), Healdsburg, CA 3/31/05
39. “Applying Biotechnologies to the Cattle Industry” the National Beef Cattle Evaluation Consortium’s National Animal Breed Seminar Series Electronic TeleConference, CA 4/4/05
40. “Genetic Engineering in California Agriculture” the Sonoma County Farm Bureau, CA 4/20/05
41. “GE-Free legislation drives CE/AES education” UCCE and AES faculty at the Fostering AES/CE Connections in Animal Agriculture conference, UC Davis, CA 6/14/05
42. “Genetic Engineering in California Agriculture” Secondary ag/science teachers at the American River College, Sacramento, CA 6/17/05
43. “Genetic Engineering in California Agriculture” Stanislaus County Annual “Friends of Extension” Dinner Meeting , CA 6/23/05
44. “Animal Biotechnology Extension Education” National Association of County Agricultural Agents, Buffalo, NY, 7/26/05
45. “Endogenous production of omega-3 fatty acids in milk” Transgenic Animal Conference, Tahoe City, CA, 8/15/05
46. “Animal Biotechnology Extension Education” Transgenic Animal Conference, Tahoe City, CA, 8/17/05
47. “Genetic Engineering and Animal Agriculture” Association of Food Journalists, San Francisco, CA, 9/7/05
48. “Use of DNA-based biotechnologies in the beef cattle industry”, Tehama Angus Ranch, Tehama, CA, 9/8/05
49. “Genetic Engineering – An Overview”, Leadership Santa Rosa Class, Sonoma, CA, 9/22/05
50. “Applying Biotechnologies on the Ranch”, NCERA 199 Implementation and Strategies for National Beef Cattle Evaluation, Davis, CA, 10/7/05
51. “Use of GE crops and animals in CA agriculture”, UCCE Biotechnology Workgroup seminar on Issues Relating to Genetic Engineering in California Agriculture, Sonoma, CA, 10/11/05
52. “Use of GE crops and animals in CA agriculture”, UCCE Biotechnology Workgroup seminar on Issues Relating to Genetic Engineering in California Agriculture, Parlier, CA, 10/21/05
53. “Animal ID” UCCE Beef Workgroup Meeting, CCA Meeting, Reno, NV, 11/16/05
54. “Validation of New Technologies for Beef Cattle Improvement” CCA LRF Meeting, Reno, NV, 11/18/05
55. “Biological Containment of Genetically Engineered Fish” USDA/EPA/FDA Agricultural Biotechnology Risk Assessment Conference, Washington DC. 11/30/05
56. “Biotechnology and the Future of California Agriculture” , UC Retirement Community, Davis, CA 12/7/05
57. “DNA testing for parentage” NBCEC Large Herd Symposium, Kansas City, MO 12/9/05
58. “What are the impacts of genetically modified crops on animal health and food products?” UCCE California Alfalfa Symposium, Visalia, CA, 12/14/05

7. OUTREACH PRESENTATIONS (continued)

59. "Impacts of GMO Crops on Animal Health and Food Products" Northwest Alfalfa Seed Growers Meeting, Reno, NV 1/23/06
60. "Biotechnology and the Future of California Agriculture", Retirees Group of the UC Davis Biological and Agricultural Engineering Department, Davis, CA 1/27/06
61. "The NBCEC Validation Website" NBCEC Advisory Council Meeting, Denver, CO, 1/31/05
62. "The Coexistence of Biotechnology", Monsanto Headquarters, St Louis, MO 2/2/2006
63. "National Animal Identification System (NAIS) and electronic identification", UCCE meeting, Jackson, CA 2/10/06
64. "Is There a Future for Transgenic Fish in the Golden State ?", World Aquaculture Symposium, Las Vegas, NV 2/16/06
65. "Is the Market Ready for Cloned Cows?", 95th Annual Oregon Dairy Industries Conference, Eugene, OR, 4/11/06
66. "Marker Assisted Selection in Beef Cattle", Beef Improvement Federation Convention, Choctaw, MS, 4/18-21/2006
67. "Genetic Engineering in California Agriculture", Turlock Rotary Club, Turlock, CA., 5/9/06
68. "Animal Biotechnology How, What, and Why ?" presentation to science classes in Vallejo High School, Hogan High School, Vallejo, CA 5/10/06
69. "The views of society on the medical and agrifood uses of animal livestock biotechnology", US-EU Workshop on the Future of Livestock Genomics, Brussels, Belgium, 7/17-7/18/06
70. "Use of DNA-based biotechnologies in the beef cattle industry" UCCE Meeting, Tulare, CA 8/1/2006
71. "Paternity analysis in a large commercial ranch setting." Eighth World Congress of Genetics Applied to Livestock Production. Belo Horizonte, MG. Brazil, August 13-18, 2006
72. Use of DNA-based Biotechnologies in the Beef Cattle Industry", Yolo County Cattlemen's dinner, Esparto, 8/24/06
73. Project Report Interpreting Cattle Genomic Data Biology, Applications and Outreach. NC1010 Multistate Project Meeting. Lincoln, NE, 10/6/06
74. "The omega-3 milk mouse model", NBCEC Healthfulness Meeting, Des Moines, IA 10/12/2006
75. "What is the Future of Animal Biotechnology?" Michigan State University, Department of Animal Science Seminar Series, Lansing, MI, 10/17/2006
76. "Premises Registration, Electronic Identification and the National Animal Identification System", Humboldt County, Eureka, CA 10/20/2006
77. "Use of DNA-based Biotechnologies in the Beef Cattle Industry", Sonoma County, Petaluma, 10/21/2006
78. "Validating Genetic Markers", NBCEC Brownbagger series, 10/26/2006
79. "Update on County-based ordinances to ban the use of genetic engineering in agriculture" in session on Issues surrounding the co-existence of GMO and conventional crops, UCCE Pest Management Coordinating Conference, Sacramento, 11/7/2006
80. "Is the Market Ready for the Milk from Cloned Cows?" Western United Dairymen conference, 3/1/2007 Bakersfield, CA
81. "Have they got DNA testing working yet?", 3/8/07, UCCE Pie night, Siskiyou County, CA
82. "Animal Biotechnology How, What, and Why?", lectured to 5 science classes in Green Valley Middle School, Fairfield-Suisun Unified School District, CA 5/17/07
83. "Is the market ready for the meat from cloned cows?", 6/28/2007 Cattle Health Committee Meeting, California Cattlemen's Association, Midyear Meeting, Rohnert Park, CA,
84. "Animal biotechnology where to from here?" 2007 ADSA-PSA-AMPA-ASAS Joint Annual Convention. July 7-12, 2007. San Antonio, TX.
85. "Animal Biotechnology" California's Current & Emerging Agricultural Issues Workshop for State FFA Officers, 7/17/2007, Davis, CA

7. OUTREACH PRESENTATIONS (continued)

86. “Transgenic animals Where to from here?” Transgenic Animal Conference, August 12-16, 2007. Tahoe City, CA
87. “Animal Biotechnology Where to from here?” AusBiotech, 10/22/2007, Brisbane, Australia
88. “DNA Technologies and Marker Validation” NBCEC Sire Selection Workshop, 11/7/2007, Reno, NV
89. “Animal Biotechnology Where to from here?” 2nd Symposium for Agricultural Biotechnology Risk Analysis Research, 12/7/2007, Washington DC
90. MultiState Project Report Modifying Milk Fat Composition for Improved Nutritional and Market Value. W-1181 Multistate Project Meeting. 1/10/2008, Davis, CA
91. Integrating biotechnologies for the beef cattle industry. UC Davis Animal Science Seminar Series, 1/28/08, Davis, CA
92. UC Davis – the next 25 years. California Beef Cattle Improvement Association 50th Anniversary meeting. 5/3/2008. Davis, CA
93. Whole Genome-Assisted Selection. National Pedigreed Livestock Council Meeting. Sacramento, CA, 5/6/2008
94. Cloned Cows and Biotech Beef Does Animal Biotechnology have a Future? Rosalie Vanderhoef’s Community Women’s Luncheon. Davis, CA, 5/15/2008
95. Paternity analysis in large commercial cattle ranch setting using SNPs – UC Davis experiences. SNP symposium at Beef Improvement Federation, Calgary, Canada, 7/1/2008.
96. Genetic Markers, California Wagyu Symposium, Sonoma, CA, 8/16/2008
97. SNPs, CHIPs and WGS – Making Sense of Biotech Babble, NBCEC Brown Bagger Series, 10/8/08
98. “Animal biotechnologies and agricultural sustainability”, Ag and Rural Sustainability Workshop, Rogers, Arkansas, November 17-19, 2008
99. “DNA testing — Does it Work and Where is it Headed?”, California Cattlemen’s Association Convention, Pfizer Cattlemen’s Collage, Reno, NV, 11/21/08
100. “Integrating DNA Information into Beef Cattle Production Systems”, NBCEC Advisory Council Meeting, Phoenix, AZ, 1/27/09
101. “Genetic test for quantitative tests in beef cattle validation update” , NBCEC Advisory Council Meeting, Phoenix, AZ, 1/27/09
102. “What has DNA done for me lately?” UCCE Pie night, Siskiyou County, CA, 3/5/09
103. “Curly Calf What is it?”, UCCE Winter Ag meeting, Shasta Livestock Auction Yard, Cottonwood, CA, 3/19/09
104. “Genetic Improvement in Beef Cattle — Where is it Headed?” Farm Club Beef Night, UC Davis, 4/1/09
105. “DNA marker panel validation update by the National Beef Cattle Evaluation Consortium”, Beef Improvement Federation Meeting, Sacramento, CA 4/30/09-5/2/09
106. “Animal Biotechnology How, What, and Why ?”, to 5 science classes in Green Valley Middle School, Fairfield-Suisun Unified School District, CA 5/29/09
107. “Animal biotechnologies and agricultural sustainability”, Institute of Food Technologists, Annual Meeting and Food Expo, San Diego, CA 6/8/09
108. “Integrating DNA Information into Beef Cattle Production Systems”, Western Section of Animal Science Association of America, Denver, CO, 6/18/09
109. “Basics of SNPs and DNA-based genotyping”, Producer Education Event, Meat Animal Research Center, Clay Center, NE, 6/22/09
110. “DNA-based progeny testing and development of commercial ranch EPDs”, Producer Education Event, Meat Animal Research Center, Clay Center, NE, 6/22/09
111. “DNA Marker Validation” , Producer Education Event, Meat Animal Research Center, Clay Center, NE, 6/22/09

7. OUTREACH PRESENTATIONS (continued)

112. “Beef Cattle Industry Structure Implications for whole genome selection” American Society of Animal Science, Montreal, Canada 7/13/09
113. “Graduate Student Lunch-n-Learn Panel” American Society of Animal Science Montreal, Canada 7/14/09
114. “Beef Cattle Industry Structure Implications for whole genome selection” presented to the Pfizer Animal Genetics, Global Audio conference, Webinar 8/5/09
115. “Beef cattle industry structure Implications for whole genome selection” Australian Wagyu Association meeting, Coff’s Harbor, NSW, Australia, 9/26/09
116. “Validation and estimation of genetic variation associated with DNA tests for quantitative beef cattle traits” 30th Association for the Advancement of Animal Breeding and Genetics (AAABG) meeting, Barossa Valley, South Australia, 9/29/09
117. “Current status of adoption of DNA-testing by US beef breed associations” CRC for Beef Genetic Technologies DNA Commercialization Forum, Brisbane, Queensland, 12/10/09
118. “Economics of using DNA–markers for bull selection in the seedstock sector” CRC for Beef Genetic Technologies DNA Commercialization Coordination Technical BIN meeting, Brisbane, Queensland, 12/11/09
119. “Economics of using DNA markers for sorting feedlot cattle”, New York Beef Producers’ Association, Annual Meeting and Feeder/Winter Management Conference, Syracuse, NY 1/22/10
120. “Economic of DNA markers for the Cow/Calf Industry”, New York Beef Producers’ Association, Annual Meeting and Feeder/Winter Management Conference, Syracuse, NY 1/23/10
121. “Update on DNA marker validation”, NBCEC Advisory Council Meeting, San Ant., TX, 1/26/10
122. “What is the value of DNA testing?” Beef CRC Genomic’s Master Class, Armidale, NSW, Australia 3/30/10
123. “Case Study: Extension efforts around the use of DNA tests for the U.S. beef cattle industry” Beef CRC Genomic’s Master Class, Armidale, NSW, Australia 3/31/10
124. “Current Status of Genetically Engineered Animals” Ethics and Biotechnology: Genetically Engineered Animals Breakout session. BIO International Convention. Chigago, IL 5/4/10
125. “Animal Biotechnology: How, What, and Why ?”Invited Presentation to five 7th grade science classes in Green Valley Middle School, Fairfield-Suisun Unified School District, CA 5/7/10

8. ABSTRACTS/PROCEEDINGS PAPERS (Chronological since Appointment 2002)

1. Wong, A.C., and A.L. Van Eenennaam. Identification of Zebrafish gonadotropin hormone and receptor sequences. . Abstract # P733. Final program and abstract guide. XIII International Plant & Animal Genome Meeting, San Diego, CA, Jan.10-14, 2004. http://www.intl-pag.org/pag/12/abstracts/P5o_PAG12_733.html
2. Wong, A.C., and A. L. Van Eenennaam. 2004. Identification and Cloning of Zebrafish Gonadotropin Hormone and Receptor Sequences. Abstract #525. Sixth International Meeting on Zebrafish Development and Genetics. Madison, WI, July 29 – August 2, 2004
3. Lemaux, P.G., G. Giusti, J. Harper, A. McHughen, and A. L. Van Eenennaam. 2004. The Role of Public Sector Scientists in the Biotechnology Debate: Lessons Learned in Mendocino County. American Society of Agronomy (ASA) - Crop Science Society of America (CSSA) - Soil Science Society of America International Annual Meetings. Seattle, WA, October 31 – November 4, 2004
4. Van Eenennaam, A.L. and P.G. Lemaux. 2004. Genetic Engineering in California Agriculture: bringing science into the dialogue. Western Region Extension Professional Development Conference, Woodland, CA. October 28-29, 2004.

8. ABSTRACTS AND PROCEEDINGS PAPERS (continued)

5. Kao, B. T., E. J. DePeters, and A. L. Van Eenennaam. 2005. Endogenous Production of Omega-3 Fatty Acids in the Mammary Gland of Transgenic Mice. Abstract # P763. Final program and abstract guide. XIII International Plant & Animal Genome Meeting, San Diego, CA, Jan.15-19, 2005. http://www.intl-pag.org/pag/13/abstracts/PAG13_P763.html
6. Van Eenennaam, A.L. 2005. Animal Biotechnology and Genomics Extension Program. National Association of County Agents Annual Meeting and Professional Improvement Conference, July 17-21, 2005 Buffalo, New York. p 99.
7. Van Eenennaam, A.L. 2005. Genetic Engineering in California Agriculture. National Association of County Agents Annual Meeting and Professional Improvement Conference, July 17-21, 2005 Buffalo, New York. p 140.
8. Lemaux, P. G. and A. L. Van Eenennaam. 2005. UCBiotech.Org – Using the Internet to inform and educate users about agricultural biotechnology. National Association of County Agents Annual Meeting and Professional Improvement Conference, July 17-21, 2005 Buffalo, New York. p. 151
9. Van Eenennaam, A.L. 2005. Animal Biotechnology Extension Education. National Association of County Agents Annual Meeting and Professional Improvement Conference, July 17-21, 2005 Buffalo, New York. p 172.
10. Lemaux, P. G., A. L. Van Eenennaam, and A. McHughen. 2005. Food Fights in California - Educational Challenges of the GMO Debate. “Plant Biology 2005” The Annual Meeting of the American Society of Plant Biologists (ASPB), July 16-20, 2005 Seattle, Washington.
11. Kao, B.T., K. C. Morimoto, E. J. DePeters, K. Lewis, J. F. Medrano, and A. L. Van Eenennaam. 2005. Endogenous production of omega-3 fatty acids in milk. Transgenic Animal Research Conference V. August 14-18, 2005, Tahoe City, California. p. 16. Also published as B. T. Kao, K. C. Morimoto, E. J. DePeters, K. Lewis, J. F. Medrano, and A. L. Van Eenennaam. 2006. Endogenous production of omega-3 fatty acids in milk. Transgenic Research 15:117.
12. Wong. A.C. and A. L. Van Eenennaam. 2005. Evaluation of Dual Site-Specific Recombination Systems in *Danio rerio* for the Biological Containment of Transgenic Fish. Transgenic Animal Research Conference V. August 14-18, 2005, Tahoe City, California. p. 39.
13. Kao, B.T., E. J. DePeters, and A. L. Van Eenennaam. 2005. Brain fatty acid composition and postnatal growth of neonates raised on transgenic milk high in omega-3 fatty acids. Transgenic Animal Research Conference V. August 14-18, 2005, Tahoe City, California. p. 46.
14. Sondeno, R.S. and A.L. Van Eenennaam. 2005. Cloning and characterization of lysophosphatidic acid acyltransferase (LPAAT) from the echidna (*Tachyglossus aculeatus*). Transgenic Animal Research Conference V. August 14-18, 2005, Tahoe City, California. p. 47.
15. Wong, A.C., and A.L. Van Eenennaam. 2005. Evaluation of Dual Site-Specific Recombination Systems in *Danio rerio* for the Biological Containment of Transgenic Fish. West Coast Zebrafish Meeting, September 9-10, 2005, Eugene, Oregon.
16. Wong, A.C., and A. L. Van Eenennaam. 2005. Biological Containment of Genetically Engineered Fish. USDA/EPA/FDA Agricultural Biotechnology Risk Assessment Conference, November 30, 2005, Washington DC.
17. Van Eenennaam, A.L. 2005. Do genetically engineered (GE) crops impact animal health and food products? Proceedings, California Alfalfa and Forage Symposium, 12-14 December, 2005, Visalia, CA, UC Cooperative Extension, Agronomy Research and Extension Center, Plant Sciences Department, University of California, Davis. <http://alfalfa.ucdavis.edu>
18. K. D. Bongiovanni, E. J. DePeters, and A. L. Van Eenennaam. 2006. Developmental and Behavioral Assessment of Neonatal Mice Raised on Milk Transgenically-Enriched with Omega-3 Fatty Acids. Abstract 827. Final program and abstract guide. XIV International Plant & Animal Genome Meeting, San Diego, CA, Jan.14-18, 2006. http://www.intl-pag.org/14/abstracts/PAG14_P827.html

8. **ABSTRACTS AND PROCEEDINGS PAPERS (continued)**

19. Sondeno, R.S., K.R. Nicholas, and A.L. Van Eenennaam. 2006. Identification of the echidna (*Tachyglossus aculeatus*) lysophosphatidic acid acyltransferase (LPAAT). Abstract 659. Final program and abstract guide. XIV International Plant & Animal Genome Meeting, San Diego, CA, Jan.14-18, 2006. http://www.intl-pag.org/14/abstracts/PAG14_P659.html
20. Van Eenennaam, A.L. 2006. Impacts of GMO crops on animal health and food products. Proceedings for the 2006 Northwest Alfalfa Seed Grower's Winter Seed School Conference, Reno, NV, January 22-24, 2006. A. L. Van Eenennaam. 2006. Is there a future for transgenic fish in the Golden State? Abstract #361. Aquaculture America, Las Vegas, NV, February 13-16, 2006.
21. Davy, J.S., J. W. Oltjen, D. J. Drake, and A. L. Van Eenennaam. 2006. Using pre-weaning and post-weaning variables to predict carcass quality. Proceedings of the Western Section of the American Society of Animal Science, Logan, UT, June 21-23, 2006.
22. Wong, A.C. and A. L. Van Eenennaam. 2006. Dual site-specific recombination systems for the biological containment of genetically engineered fish. Seventh International Congress on the Biology of Fish, July 18-22, 2006, St John's, Newfoundland, Canada
23. Van Eenennaam, A.L., D. J. Drake, and M. C. T. Penedo 2006. Paternity analysis in a large commercial ranch setting. Eighth World Congress of Genetics Applied to Livestock Production. August 13-18, 2006, Belo Horizonte, MG. Brazil.
24. R.L. Quaas, J. Li, R.M. Thallman, A.L. Van Eenennaam, R.L. Fernando, and C. Gill. 2006. Validation of Commercial DNA tests for quantitative beef traits. Eighth World Congress of Genetics Applied to Livestock Production. August 13-18, 2006, Belo Horizonte, MG. Brazil.
25. Van Eenennaam, A.L. 2007. Animal biotechnology: where to from here? Abstract 805. 2007 ADSA-PSA-AMPA-ASAS Joint Annual Convention. July 7-12, 2007. San Antonio, TX. J. Anim. Sci. Vol. 85, Suppl. 1. Page 623
26. Van Eenennaam, A.L. 2007. Transgenic Animals: Where to from here? Transgenic Animal Research Conference VI. August 12-16, 2007. Tahoe City, CA. Transgenic Research 16: 8639-840.
27. Wong, A.C., and A. L. Van Eenennaam. 2007. Transgenic Containment of Genetically Engineered Fish. Transgenic Animal Research Conference VI. August 12-16, 2007. Tahoe City, CA. Transgenic Research 16: 862.
28. Deines, K.C., K.A. Lewis and A.L. Van Eenennaam. 2007. Investigation of the Agalactic Phenotype in Fat-2 Transgenic Mice. Transgenic Animal Research Conference VI. August 12-16, 2007. Tahoe City, CA. Transgenic Research 16: 861-862.
29. Pohlmeier, W.E., K. A. Lewis and A. L. Van Eenennaam. 2007. Reproductive Abnormalities in Fat-1 Transgenic Mice. Transgenic Animal Research Conference VI. August 12-16, 2007. Tahoe City, CA. Transgenic Research 16: 861.
30. Van Eenennaam, A.L. 2007. Animal Biotechnology: Where to from here? Second Symposium for Agricultural Biotechnology Risk Analysis Research, 12/7/2007, Washington DC
31. Pohlmeier, W.E., K. A. Lewis and A. L. Van Eenennaam. 2008. Reproductive abnormalities in omega-3 fatty acid desaturase transgenic mice. Proceedings, Western Section, American Society of Animal Science. 59: 20-23.
32. Van Eenennaam, A.L., D.J. Drake, and D.J. Garrick. 2008. Evaluation of calf output and progeny carcass data of commercial beef bulls. Proceedings, Western Section, American Society of Animal Science. 59: 122-125.
33. Van Eenennaam, A.L., and W. E. Pohlmeier. 2008. Animal Biotechnology: The movie. J. Anim. Sci. Vol. 86, E-Suppl.2. 406.
34. Lemaux PG, Alonso B, Van Eenennaam A.L. 2008. Food Fights in California: Meeting the Educational Challenges of the GM Food Debate. 2008 Joint Annual Meeting ASA-CASA-SSSA, GSA & GCAGS, Houston, TX, 10/6/08, Abstract 705-2.

8. ABSTRACTS AND PROCEEDINGS PAPERS (continued)

35. Wong, A.C., and A.L. Van Eenennaam. 2009. I-SceI meganuclease- and Tol2 transposon-mediated transgenesis methods compared in zebrafish: Transgenesis frequencies and germline transmission rates Abstract # P548. Final program and abstract guide. XVII International Plant & Animal Genome Meeting, San Diego, CA, Jan.10-14, 2009.
36. Ramsey, J., K. Weber, D. Hwee, A.L. Van Eenennaam, J. B. German, R. McDonald, and K. Hagopian. 2009. Omega-3-producing fat-1 transgenic mice display reduced complex I-associated hydrogen peroxide production and enzyme activity. *FASEB J.* 23:334.
37. Drake, D.J., K. L. Weber, and A.L. Van Eenennaam. 2009. Developing carcass trait EPDs for commercial bulls using on-ranch genetic evaluations. Page 21 in Program of the 41st Beef Improvement Federation (BIF) Annual Research Symposium and Annual Meeting. April 30 – May 3, 2009, Sacramento, CA. Pages 21-22.
38. Van Eenennaam, A.L., R.M. Thallman, R.L. Quaas, K. Hanford, and E. J. Pollak 2009. DNA marker panel validation update by the National Beef Cattle Evaluation Consortium. Page 20 in Program of the 41st Beef Improvement Federation (BIF) Annual Research Symposium and Annual Meeting. April 30 – May 3, 2009, Sacramento, CA. Page 20. D.J. Drake, A. L. Van Eenennaam, and J.D. Lowe. 2009. Development and implementation of a vertically-integrated beef cattle data collection system. 2009 ASAS Western Section Meeting. 60: 108-111.
39. Van Eenennaam, A. L., K.L. Weber, K. Coopridge, L.J. Butler, and D.J. Drake. 2009. The selection value of paternity information on calves derived from multisire breeding pastures on commercial cow-calf ranches. *Proceedings, Western Section, American Society of Animal Science.* 60: 15-18.
40. Wong, A.C., and A.L. Van Eenennaam. 2009. Cre/loxP and FLP/FRT site-specific recombination systems for the biological containment of transgenic fish. *Transgenic Animal Research Conference VII.* August 17-22, 2009. Tahoe City, CA. *Transgenic Research* (2010) 19:139
41. Van Eenennaam, A.L. 2009. Beef cattle industry structure: implications for whole genome selection. *J. Anim. Sci.* Vol. 87, E-Suppl. 2 175-176.
42. Van Eenennaam, A.L., R.M. Thallman, R.L. Quaas, K. Hanford, and E.J. Pollak. 2009. Validation and estimation of genetic variation associated with DNA tests for quantitative beef cattle traits. *Association for the Advancement of Animal Breeding and Genetics.* 18:129-132.
43. Duan Q., J. Reecy, R. Tait, Q. Liu, A. Van Eenennaam, R. Mateescu, A. Garmyn, and D. Beitz. Genetic polymorphisms in bovine ferroportin are associated with longissimus dorsi muscle iron content. *The FASEB Journal.* 24 (1) 229.2
44. Van Eenennaam, A. L., J.H. van der Werf, and M.E. Goddard. 2010. The economics of using DNA markers for beef bull selection in the seedstock sector. *Journal of Animal Science.* *J. Anim. Sci.* Vol. 88, E-Suppl..
45. Van Eenennaam, A. L., J.H. van der Werf, and M.E. Goddard. 2010. Value of DNA information for beef bull selection. 9th World Congress of Genetics Applied to Livestock Production. August 1-6, 2010, Leipzig, Germany.

9. POPULAR PRESS AND ELECTONIC ACCESS ARTICLES

1. Van Eenennaam, A. L., 2003. Marker Assisted Selection in Beef Cattle. *California Cattlemen's Magazine*, November Issue. Pages 20-22.
2. Van Eenennaam, A. L., 2003. Animal Biotechnology: Knowledge Gap Breeds Distrust. Newspaper Editorial published in *Ag Weekly*, Twin Falls, ID
3. Van Eenennaam, A. L., 2004. How to Use DNA-tests in Your Breeding Program. – 21st Century Dairying. *Fresno and Madera Counties Cooperative Extension Dairy Newsletter.* January Issue. Page 5, and *North Coast Dairy Review.* Humboldt and Del Norte Counties, CA

9. POPULAR PRESS AND ELECTONIC ACCESS ARTICLES (continued)

4. Van Eenennaam, A. L., 2004. Animal Biotechnology. Newspaper Editorial published in Ukiah Daily Press, 1/30/04.
5. Van Eenennaam, A. L., 2004. DNA-Based Markers and Their Use in Dairy Breeding Programs. UC Davis Dairy Day. March 23, 2004.
7. Central Coast Agriculture Highlights. Santa Barbara County Cooperative Extension Newsletter. February Issue. Page 7-8.
8. Van Eenennaam, A. L., 2005. Selection Tools – Update on DNA markers in beef cattle. California Cattlemen’s Magazine, July/August Issue. Pages 20-22.
9. A.L. Van Eenennaam. 2006. Livestock Cloning.
http://animalscience.ucdavis.edu/animalbiotech/Outreach/Livestock_cloning.pdf
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http://animalscience.ucdavis.edu/animalbiotech/Outreach/Are_the_milk_and_meat_from_clones_safe_to_eat.pdf
11. Van Eenennaam, A. L., 2006. Parentage Testing. California Cattlemen’s Magazine, May Issue. Pages 28-29.
12. Dikeman, M.E., Van Eenennaam, A.L., Li, J., Thallman, R.M., Quaas, R.L., Gill, C., Franke, D.E., Thomas, M.G. 2007. Validation of commercial DNA tests for beef quality traits. In: Beef Cattle Research 2007. Report of Progress #978. Proceedings of the KState Cattlemen's College, March 2, 2007, Manhattan, KS. p. 36-42.
13. Van Eenennaam, A. L. 2007. The Science of Cloning Cattle. California Cattleman Magazine. July/August. Pages 46-47
14. Van Eenennaam, A. L. 2007. DNA Markers: Explanation of Validation and Utilization, Fact Sheet, 10/2007 <http://www.ansci.cornell.edu/nbcec/producers/VanEenennaamArticle.pdf>
15. Van Eenennaam, A. L. 2007. It’s in the genes. Limousin World. December. p. 18-26.
16. Van Eenennaam, A. L. 2008. Is livestock cloning another form of genetic engineering?, Fact Sheets, 1/2008, <http://animalscience.ucdavis.edu/animalbiotech/Outreach/Clones2008.pdf>
17. Van Eenennaam, A. L. 2008. Are the progeny of cloned animals safe to eat?, Fact Sheets, 1/2008, http://animalscience.ucdavis.edu/animalbiotech/Outreach/Progeny_of_Clones.pdf
18. Van Eenennaam, A. L. 2008. DNA markers: Explanation of validation and utilization.
 - American Red Angus Magazine. February. P. 54-66
 - Angus Journal March. p. 90-94
19. Garrick, D. J. and A. L. Van Eenennaam. "No Bull" Discussion on Genetic Markers. 2008. Proceedings, 2008 Florida Beef Cattle Short Course. Pages 23-29.
<http://animal.ifas.ufl.edu/extension/beef/shortcourse/2008/Garrick.pdf>
20. Lemaux, P. and A. L. Van Eenennaam. 2009. Field or lab, risks the same, Magazine Article, 3/9/2009, Modern Healthcare.
21. Van Eenennaam, A. L. 2009. A rare opportunity. CBCIA, CCA host 2009 Beef Improvement Federation event. California Cattlemen’s Magazine. June. Pages 33-40.
http://www.calcattlemen.org/images/BIFCoverage_5-21.pdf
22. Van Eenennaam, A. L. 2009. Science in action. Genome sequencing aids in genetic testing. California Cattlemen’s Magazine. March. Pages 36-37.
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http://www.calcattlemen.org/images/BIFCoverage_5-21.pdf
24. Van Eenennaam, A. L. 2009. Do DNA tests work? Beef Magazine. October. 52-56.
<http://beefmagazine.com/genetics/selection-tools/1001-dna-test-future>

9. POPULAR PRESS AND ELECTONIC ACCESS ARTICLES (continued)

25. Van Eenennaam, A. L. 2010. Are DNA tests for you? Beef Magazine. March. 18-23.
<http://beefmagazine.com/genetics/beef-dna-tests-20100301>
26. Van Eenennaam, A. L. 2010. What is the value of DNA testing? California Cattlemen's Magazine. June. *In press*.

UC Davis Websites

UC Davis Animal Biotechnology Website <http://animalscience.ucdavis.edu/animalbiotech>
UC Davis Animal Identification Website <http://animalscience.ucdavis.edu/AnimalID>

Movies

Animal Biotechnology: The movie (You Tube <http://www.youtube.com/watch?v=qCIvAuwaf-o>)
http://animalscience.ucdavis.edu/animalbiotech/Outreach/Animal_biotechnology_The_movie.htm
Genetic Engineering in California Agriculture (<http://www.youtube.com/watch?v=Zzh5TVXaAr4>)

eXtension fact sheets (<http://www.extension.org/category/beef%20breeding%20and%20genetics>)

Van Eenennaam, A.L. 2009 Biomedical applications of genetically engineered and cloned animals
Van Eenennaam, A.L. 2009 Genomics and animal agriculture
Van Eenennaam, A.L. 2009 Waiter: Is there a gene in my steak?
Van Eenennaam, A.L. 2009 Animal cloning
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Van Eenennaam, A.L. 2009 Basics of DNA markers and genotyping
Van Eenennaam, A.L. 2009 Validation of marker tests
Van Eenennaam, A.L. 2009 DNA-based progeny testing and development of commercial ranch EPDs
Van Eenennaam, A.L. 2009 Marker-assisted selection
Van Eenennaam, A.L. 2009 Potential effects of biotechnology on animal health and well-being
Van Eenennaam, A.L. 2009 Curly calf syndrome (Arthrogyposis multiplex) test available

10. USDA CURRENT RESEARCH INFORMATION SYSTEM (CRIS) PROJECTS

- **INTERPRETING CATTLE GENOMIC DATA: BIOLOGY, APPLICATIONS AND OUTREACH**
PROJ TYPE: HATCH PROJ STATUS: TERMINATED
MULTISTATE PROJ NO: NC-1010 START: 01 OCT 2002 TERM: 30 SEP 2007
- **MODIFYING MILK FAT COMPOSITION FOR IMPROVED NUTRITIONAL AND MARKET VALUE**
PROJ TYPE: HATCH PROJ STATUS: TERMINATED
MULTISTATE PROJ NO: W-1181 START: 01 OCT 2007 TERM: 30 SEP 2009
- **2009 BEEF IMPROVEMENT FEDERATION CONFERENCE**
PROJ TYPE: NRI COMPETITIVE GRANT PROJ STATUS: TERMINATED
CONTRACT/GRANT/AGREEMENT NO: 2009-55205-05062 START: 01 JAN 2009 TERM: 31 DEC 2009 FY: 2009 GRANT YR: 2009
GRANT AMT: (b) (6)

10. USDA CRIS PROJECTS (continued)

- **ASSESSMENT OF THE WELL-BEING AND BEHAVIOR OF GENETICALLY ENGINEERED DAIRY GOATS**
PROJ TYPE: NRI COMPETITIVE GRANT PROJ STATUS: ACTIVE
CONTRACT/GRANT/AGREEMENT NO: 2005-55204-15745 START: 01 JUL 2005 TERM:
30 JUN 2010 FY: 2009 GRANT YR: 2005 GRANT AMT: (b) (6)
- **NATIONAL ANIMAL GENOME RESEARCH PROGRAM**
PROJ TYPE: HATCH PROJ STATUS: ACTIVE
MULTISTATE PROJ NO: NRSP-8
START: 01 OCT 2008 TERM: 30 SEP 2013
- **INTEGRATING DNA INFORMATION INTO BEEF CATTLE PRODUCTION SYSTEMS**
PROJ TYPE: NRI COMPETITIVE GRANT PROJ STATUS: ACTIVE
CONTRACT/GRANT/AGREEMENT NO: 2009-55205-05057 START: 01 JAN 2009 TERM:
31 DEC 2012 FY: 2009 GRANT YR: 2009 GRANT AMT: (b) (6)

11. AFFIRMATIVE ACTION

I have given presentations to non-traditional audiences including presentations to general public audience groups (Leadership Santa Rosa, American River College, Modesto Junior College), women's groups (Rosalie Vanderhoef's Community Women's Luncheon), seniors (UC Retirement Community, UC Davis Biological and Agricultural Engineering Department Retirees group), and minority audiences (e.g. radio interview with Juan Carlos from Telomundo (Latin radio) on clones, and guest lectures to Hogan High School, Vallejo; Green Valley Middle School, Fairfield; Sheldon High School Biotech Academy). I also put on the popular UCD Picnic Day "Animal Biotechnology" and "Extract your own DNA" tabletop exhibits. I am on the speaker list for the Sacramento Advocate for Girls' Empowerment (SAGE). SAGE is a Sacramento-based nonprofit community organization devoted to the encouragement and empowerment of middle-school and high-school girls in pursuit of careers in computer-related technology, life sciences, engineering, science, math and law. Gigi Lee, a teacher at Green Valley Middle School in Fairfield, CA sent the following letter of appreciation following my presentations on Animal Biotechnology to her middle school classes.

"It was such a pleasure and honor to have Dr. Van Eenennaam spend an entire day on May 29th at Green Valley Middle School, a top Distinguished School in Fairfield-Suisun Unified School District. All 170 of my 8th Grade Science students were thoroughly engaged in her informative PowerPoint presentation. She included questions that challenged their higher order thinking and promoted discussions. I sincerely appreciate her presenting to my 5 classes -- nearly all back-to-back. I thought the added touch of the game "Jeopardy" at the end was an excellent way to check for students' understanding. This is the 4th year Dr. Van Eenennaam has presented to my classes & is always voted best speaker of the year. Not only because she is so knowledgeable & can connect well with the students, but also because they love her Australian accent!

Our ethnically diverse middle school population (of 65% minority groups), graduate and move on to Rodriguez High School, another Distinguished School. Our students have great potential for proceeding on to UC Davis, the nearest UC campus. In my classroom, I emphasize the power of education through my speaker series and lay out various educational options. Being able to have quality speakers, like Dr. Van Eenennaam, truly make a difference in these young minds and help sustain a viable future for us all. Thank you for allowing this community outreach to happen! Dr. Van Eenennaam is a positive influence and I look forward to having her come every year!!!"