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EDUCATION

Postdoctoral Training	University of Missouri-Columbia (Reproductive Physiology) Sponsor: Dr. B. N. Day Department of Animal Science Food for 21st Century	1992
Ph.D.	University of Nevada, Reno Major: Biology (Reproductive Physiology) Advisor: Dr. D. L. Garner	1991
M.S.	University of Nevada, Reno Major: Animal Science (Reproductive Physiology) Advisor: Dr. D. L. Garner	1987
B.A.	San Francisco State University Major: Economics (Dean's List)	1985
B.S.	Colorado State University Major: Animal Science	1983

PROFESSIONAL EXPERIENCE

Professor 2003-present Department of Animal Science Sul Ross State University, Alpine, TX
Chairman 1999-2004 Department of Animal Science Sul Ross State University, Alpine, TX
Associate Professor 1998-2003 Division of Range Animal Science Sul Ross State University,
Alpine, TX
Director, Secretary and Vice President of Regulatory Affairs 1987-present Androscore Corp., Las
Vegas, NV
Director of Regulatory Affairs 1986-present Gametrics Limited, Alzada, MT
Assistant Professor 1992-1998 Division of Range Animal Science Sul Ross State University,
Alpine, TX
Postdoctoral Fellow 1991-1992 Department of Animal Science University of Missouri, Columbia,
MO
Research Assistant 1988-1991 Department of Animal Science University of Nevada, Reno, NV
Research Assistant 1987-1988 Department of Dairy Science University of Wisconsin, Madison,

WI

Research Assistant 1986-1987 Department of Animal Science University of Nevada, Reno, NV
Laboratory Assistant 1986-1987 Environmental Protection Agency-Idaho State University, Reno, NV

Laboratory Assistant 1986 Department of Animal Science University of Nevada, Reno, Nevada

PROFESSIONAL ASSOCIATIONS

American Society of Andrology
Gamma Sigma Delta
Society for the Study of Reproduction
American Fertility Society
American Society of Animal Science
Sigma Xi
International Goat Association

HONORS AND AWARDS

Outstanding Young Men of America, 1998 edition.
Who's Who Among America's Teachers, 5th edition, 1998
Who's Who Among America's Teachers, 6th edition, 2000.
Lexington Who's Who, Millennium edition, 2000-2001.
Co-author of a poster entitled "Cryopreservation of Aoudad (*Ammotragus lervia*) spermatozoa using two different protocols" that won the best poster award at the 1995 Annual Conference for the Society for Theriogenology.
Teaching Award of Merit. North American Colleges and Teachers of Agriculture (NACTA). 2003.
Patent - Method used in Testing Human Males for Fertility. United States patent number 5,055,411.
Patent - Kit for Testing Human Males for Fertility. United States patent number 5,068,089.

PUBLICATIONS

BOOKS:

Ericsson, R. J. and S. A. Ericsson. Sex Ratios. Encyclopedia of Reproduction, volume 4. Eds: E. Knobil and J. D. Neill. Academic Press. San Diego, CA. Pages 431-437. 1998.

REFEREED JOURNAL ARTICLES:

Ericsson, S. A., D. L. Garner, D. Redelman and K. Ahmad. Assessment of the viability and fertilizing potential of cryopreserved bovine spermatozoa using dual fluorescent staining and two flow cytometric systems. Gamete Research. 22:355-368. 1989.
Ericsson, S. A., D. L. Garner, L. A. Johnson, D. Redelman and K. Ahmad. Flow cytometric evaluation of cryopreserved bovine spermatozoa processed using a new antibiotic

- combination. *Theriogenology*. 33:1211-1220. 1990.
- Kramer, R. Y., D. L. Garner, S. A. Ericsson, D. A. Wesen, T. W. Downing and D. Redelman. The effect of cottonseed components on testicular development in pubescent rams. *Veterinary and Human Toxicology* 33(1):11-16. 1991.
- Downing, T. W., D. L. Garner, S. A. Ericsson and D. Redelman. Effect of fluorescent staining on the metabolism of cryopreserved bovine sperm. *Journal of Histochemistry and Cytochemistry*. 39(4):485-489. 1991.
- Glass, R. H., S. A. Ericsson, R. J. Ericsson, M. T. Drouin, L. Marcoux and H. Sullivan. The resazurin reduction test provides an assessment of sperm activity. *Fertility and Sterility*. 56(4):743-746. 1991.
- Ericsson, S. A. and R. J. Ericsson. The sex ratio of male sex preselected children born to couples with exclusively female offspring. *Archives of Andrology*. 28:121-123. 1992.
- Ericsson, S. A. and R. J. Ericsson. Couples with exclusively female offspring have an increased probability of a male child after using male sex preselection. *Human Reproduction*. 7(3):372-373. 1992.
- Downing, T. W, D. L. Garner, S. A. Ericsson and G. C. J. Fernandez. Alteration of sperm metabolism by the addition of cytoplasmic droplets. *Assisted Reproductive Technology / Andrology*. 3:289-293. 1992.
- Ericsson, S. A., D. L. Garner, C. A. Thomas, T. W. Downing, and C. E. Marshall. Interrelationships among fluorometric analyses of spermatozoal function, classical seminal quality parameters and the fertility of cryopreserved bovine spermatozoa. *Theriogenology*. 39(5):1009-1024. 1993.
- Kramer, R. Y., G. S. Prins, E. S. Bruns, S. A. Ericsson, and D. L. Garner. Comparison of motility and flow cytometric assessments of seminal quality in fresh, 24-hour extended and cryopreserved human spermatozoa. *Journal of Andrology*. 14(5):374-384. 1993.
- Dart, M. G., J. Mesta, C. Crenshaw and S. A. Ericsson. Modified resazurin reduction test for assessment of the fertility potential of bovine spermatozoa. *Archives of Andrology*. 33(2):71-75. 1994.
- Ericsson, S. A. and R. J. Ericsson. Effects of norepinephrine and testosterone propionate on formation of epididymal lesions in rats administered the male antifertility agent β -chlorohydrin. *Advances in Contraceptive Delivery Systems*. 1996.
- Carter, R. A., S. A. Ericsson, C. D. Corn, P. R. Weyerts, M. G. Dart, S. G. Escue and J. Mesta. Assessing the fertility potential of equine semen samples using the reducible dyes methylene green and resazurin. *Archives of Andrology*. 40:57-64. 1997.
- Mesta, J. G., S. A. Ericsson, M. G. Dart, R. G. Wansley and P. R. Weyerts. The use of reducible dyes resazurin and methylene green for assessing the fertility potential of porcine spermatozoa. *Advances in Reproduction*. 1:139-147. 1998.
- Ericsson, R. J. and S. A. Ericsson. Human sex preselection: compilation of worldwide clinical results using the albumin method. *Today's Therapeutic Trends*. 16(2):107-119. 1998.
- Wansley, R. G., S. A. Ericsson, C. D. Corn, M. Dart and C. Crenshaw. Hair loosening in angora goats using cyclophosphamide. *Small Ruminant Research*. 28:289-291. 1998.
- Martin, L. M., C. C. Crenshaw, J. A. Dean, Jr., M. G. Dart, and S. A. Ericsson. Determination of the number of motile spermatozoa within an ovine semen sample using the reducible dye resazurin. *Small Ruminant Research*. 1748:1-5. 1998.

- Crenshaw, C. C., L. M. Martin, C. R. Mains, R. D. Wright, M. G. Dart, R. M. Perkins and S. A. Ericsson. The use of buck and ram extenders and two packaging systems to cryopreserve aoudad (*Ammotragus Leriva*) spermatozoa. *Theriogenology*. 54:69-74. 2000.
- Silverman, A. Y., S. R. Stephens, M. T. Drouin, R. G. Zack, J. Osborne and S. A. Ericsson. Female sex selection using clomiphene citrate and albumin separation of sperm. *Human Reproduction*. 17(5):1254-1256. 2002.
- Purdy, P. H., S. A. Ericsson, R. E. Dodson, K. L. Sternes, and D. L. Garner. Effects of Silibinin and Catechin on the Motility of Extended Cooled Caprine Spermatozoa. *Small Ruminant Research*. 55:239-243. 2004.
- Mains, C. R., R. M. Perkins, M. G. Dart, R. G. Wansley, C. D. Corn and S. A. Ericsson. Interrelationships among semen characteristics and two measures of dominance in bachelor herds of blackbuck antelope (*Antilope cervicapra*). *Small Ruminant Research*. (Submitted).
- Ericsson, S. A., M. L. Boice, S. L. Terlouw, D. W. Leaman, R. M. Roberts, and B. N. Day. Identification of sex in porcine embryos. *Molecular Reproduction and Development*. (Submitted).
- Ericsson, S. A., M. L. Boice, H. Funahashi, and B. N. Day. Assessment of porcine oocytes using brilliant cresyl blue. *Theriogenology*. (Submitted).
- Perkins, R. M., C. R. Mains, M. G. Dart, R. G. Wansley, B. R. Behr and S. A. Ericsson. Effects of testosterone and melatonin on levels of dominance and season in bachelor herds of blackbuck antelope (*Antilope cervicapra*). *Hormones and Behavior*. (Submitted).
- Dean, J. A., S. A. Ericsson, and A. R. Comstock. Assessment of spermatozoal activity in extended cooled equine samples using the reducible dye resazurin. *Journal of Equine Veterinary Medicine*. (Submitted).
- Pitchford, J. A., S. A. Ericsson, K. K. Korth, L. L. Green, W. T. Campbell, and P. H. Purdy. Effects of catechin, epicatechin, and silibinin on the post-thaw motility of cryopreserved bovine spermatozoa. *Theriogenology*. (Submitted).
- Campbell, W. T., S. A. Ericsson, and J. A. Pitchford. Effects of Supplemental NADH₂ on the Resazurin Assay in Cooled Extended Equine Semen. *Archives of Andrology*. (Submitted).
- Dodson, R. E., S. A. Ericsson, K. L. Sternes, T. W. Downing, and P. H. Purdy. Use of the Reducible Dyes Resazurin, 2'6'-Dichloroindophenol and Methylene Green to estimate Rumen Microbial Numbers in Lactating and Non-Lactating Holstein Dairy Cows. *Journal of Dairy Science*. (Submitted).
- Woodward, C. A., S. A. Ericsson, P. H. Purdy, M. D. Fox Jr., William Campbell. Effects of Catechin and Epicatechin on the Motility of Extended Cooled Equine Spermatozoa. *Archives of Andrology*. (Submitted).
- Genetti, M. A., S. A. Ericsson, C. Jones, P. H. Purdy. Assessment of the Fertility Potential of Cryopreserved Equine Spermatozoa using the Resazurin Assay. *Journal of Equine Veterinary Science*.
- Blackburn, H. D., B. Krehbiel, S. A. Ericsson, C. Wilson, A. R. Caetano, and S. R. Paiva. A fine genetic structure analysis evaluating ecoregional adaptability of a Bos Taurus breed (Hereford). *PLOS One*. (Submitted).

PROCEEDINGS:

- Kramer, R. Y., D. L. Garner, S. A. Ericsson, D. Redelman and T. W. Downing. The effect of dietary cottonseed on testicular development in pubertal rams. *Proceedings Western Section American Society of Animal Science*. 40:309-312. 1989.
- Sternes, K. L., S. A. Ericsson, T. W. Downing and D. L. Garner. Relative mitochondrial DNA content and weight per day of age in beef heifers. *Proceedings Western Section American Society of Animal Science*. 41:372-375. 1990.
- Dart, M. G., J. Mesta, C. Crenshaw and S. A. Ericsson. Assessment of the fertility potential of bovine spermatozoa using the reducible dye resazurin. *Proceedings Western Section American Society of Animal Science*. 45:276-278. 1994.
- Wansley, R. G., S. A. Ericsson, C. D. Corn, M. Dart and C. Crenshaw. Cyclophosphamide as a hair loosening agent in Angora goats. *Proceedings Western Section American Society of Animal Science*. 45:86-87. 1994.
- Escue, S. G., R. A. Carter and S. A. Ericsson. Assessment of the fertility potential of equine semen using the reducible dyes thionin and 2,6-dichloroindophenol. *Proceedings Western Section American Society of Animal Science*. 47:201-203. 1996.
- Comstock, A. R., S. A. Ericsson, J. S. Pendergraft, K. L. Sternes, J. A. Dean and S. E. Rivera. Assessment of Fresh Extended Equine Semen Samples Using Spectrophotometry and Resazurin. *Proceedings from the Equine Nutrition and Physiology Society*. Pp. 262-267. 1999.

OTHER PUBLICATIONS:

- Ericsson, S. A. Dual Fluorescent viability staining and the potential fertilizing capacity of cryopreserved spermatozoa. M.S. Thesis. University of Nevada, Reno. 1987.
- Garner, D. L., S. A. Ericsson, D. Redelman and K. Ahmad. Assessment of bull semen fertility. *College of Agriculture, University of Nevada, Reno, SP-88-2*, p. 55. 1988.
- Kramer, R. Y., D. L. Garner, S. A. Ericsson, D. Redelman and T. W. Downing. The potentially deleterious effects of cottonseed on testicular development in pubertal ram lambs. *College of Agriculture, University of Nevada, Reno, SP-892*, p. 40. 1989.
- Ericsson, S. A., D. L. Garner, T. W. Downing and D. Redelman. Development of a fluorescent staining system to determine the potential fertility of bulls. *College of Agriculture, University of Nevada, Reno, SP-90-01*, p. 37. 1990.
- Kramer, R. Y., D. L. Garner, S. A. Ericsson, T. W. Downing and D. Redelman. Reproductive toxicity in ram lambs fed purified gossypol and cottonseed rations. *College of Agriculture, University of Nevada, Reno, SP-90-01*, p. 34. 1990.
- Downing, T. W., S. A. Ericsson and D. L. Garner. Alteration of bull sperm metabolism by added cytoplasmic droplets. *College of Agriculture, University of Nevada, Reno, SP-90-01*, p. 36. 1990.
- Ericsson, S. A. Tri-functional cytometric analyses of the viability, morphology and fertility potential of cryopreserved bovine spermatozoa. Ph.D. Dissertation. University of Nevada, Reno. 1990.
- Garner, D. L., S. A. Ericsson, C. A. Thomas and C. E. Marshall. Interrelationships of flow cytometric measurements and classical seminal quality determinations with fertility of

cryopreserved bull semen. 12th International Congress on Animal Reproduction. The Hague, Netherlands, Vol. 1, Free Communications: 148. pp. 467-469. 1992.

RESEARCH AND PROFESSIONAL PRESENTATIONS

- Ericsson, S. A., D. L. Garner, D. Redelman and K. Ahmad. Dual fluorescent viability staining and fertilizing potential of cryopreserved bovine spermatozoa. Society for the Study of Reproduction, Urbana, IL. *Biology of Reproduction*. Supplement 1, 36:75. 1987.
- Ericsson, S. A., D. L. Garner, D. Redelman and K. Ahmad. Flow cytometric evaluation of cryopreserved bovine spermatozoa using new antibiotic combinations. American Society of Animal Science, Logan, UT. *Journal of Animal Science*. 65, Supplement 1:372, Abstract 424. 1987.
- Ericsson, S. A., R. Y. Kramer, D. L. Garner and D. Redelman. Tri-functional fluorescent staining of cryopreserved bovine spermatozoa. American Society of Andrology, New Orleans, LA. *Journal of Andrology*. 10, p. 31. 1989.
- Ericsson, S. A., D. L. Garner, T. W. Downing and D. Redelman. Tri-functional fluorescent staining of fertility tested bovine spermatozoa. American Society of Andrology, Columbia, SC. *Journal of Andrology*. 11, No. 1, p-51, Abstract 123. 1990.
- Ericsson, S. A., D. L. Garner, T. W. Downing and C. E. Marshall. Tri-functional cytometric analyses of fertility-tested cryopreserved bovine spermatozoa. American Society of Andrology, Montreal, Canada. *Journal of Andrology*. 12, Supplement, p-49, Abstract 98. 1991.
- Ericsson, S. A., M. L. Boice, H. Funahashi and B. N. Day. Assessment of porcine oocytes using brilliant cresyl blue. International Embryo Transfer Society. Baton Rouge, LA. *Theriogenology*. 39(1):214. Abstract 60. 1993.
- Garner, D. L., S. A. Ericsson, D. Redelman and K. Ahmad. Carboxydimethylfluorescein acetate and Hydroethidine staining of bovine spermatozoa, Society for Analytical Cytology. Cambridge, England. *Cytometry*. Supplement 1, p. 88, Abstract 533, 1987.
- Ericsson, S. A., M. A. Winer, D. J. Miller and R. L. Ax. Assessment of the binding of fluorescentated heparin to bovine spermatozoa using flow cytometric analyses. 21th Annual Meeting of the Society for the Study of Reproduction, Seattle, WA. *Biology of Reproduction*. Supplement 1, 38:72. 1988.
- Kramer, R. Y., D. L. Garner, S. A. Ericsson, D. Redelman and T. W. Downing. The effect of dietary cottonseed on testicular development in pubertal rams. Western Section American Society of Animal Science, Bozeman, MT. *Journal of Animal Science*. 67, Supplement, 2:199, Abstract 74. 1989.
- Downing, T. W., D. L. Garner, S. A. Ericsson and D. Redelman. Alteration of sperm metabolism by fluorescent viability stains. XIV International Meeting of the Society for Analytical Cytology, Asheville, NC. *Cytometry*. Supplement 4, p. 41, Abstract 276, 1990.
- Ericsson, S. A., D. L. Garner, R. Y. Kramer, T. W. Downing and D. Redelman. Modified tri-functional fluorescent staining of cryopreserved bovine sperm. XIV International Meeting for the Society for Analytical Cytology, Asheville, NC. *Cytometry*. Supplement 4, p. 41, Abstract 275, 1990.
- Downing, T. W., S. A. Ericsson, D. L. Garner. Effects of added cytoplasmic droplets on bovine

- metabolism. American Society of Andrology, Columbia, SC. *Journal of Andrology*. 11, No. 1, p-51, Abstract 122. 1990.
- Sternes, K. L, S. A. Ericsson, T. W. Downing and D. L. Garner. Relative mitochondrial DNA content and weight per day of age in beef heifers. Western Section American Society of Animal Science, Reno, NV. *Journal of Animal Science*. 68, Supplement 1:180, Abstract 81. 1990.
- Garner, D. L, S. A. Ericsson, T. W. Downing and B. R. Behr. Functional assessment of cryopreserved human spermatozoa using flow cytometric and computer-assisted motility analyses. American Society for Cell Biology, San Diego, CA. *Journal Cell Biology*, 111(5): Part 2, p. 363a, Abstract 2036, 1990.
- Ericsson, S. A., D. L. Garner, T. W. Downing and C. E. Marshall. Comparison of flow cytometric analyses with classical viability and morphologic parameters of bovine spermatozoa. American Society of Andrology, Montreal, Canada. *Journal of Andrology*. 12, Supplement, p-49, Abstract 97. 1991.
- Garner, D. L., S. A. Ericsson and D. Redelman. Indo-1 labeling to discriminate motile sperm by flow cytometry. XV International Meeting for the Society for Analytical Cytology, Bergen, Norway. Supplement 5, p. 41-42, abstract 124, 1991.
- Garner, D. L, R. Y. Kramer, G. S. Prins, E. S. Bruns and S. A. Ericsson. Interrelationships among flow cytometric and sperm motility parameters in human semen. Society for the Study of Reproduction, Vancouver, Canada. *Biology of Reproduction*. Supplement 1, 44:116, Abstract 256. 1991.
- Kramer, R. Y., G. S. Prins, E. S. Bruns, S. A. Ericsson and D. L. Garner. Functional differences among fresh, 24-hour extended and cryopreserved human spermatozoa. American Society of Andrology, Bethesda, MD. *Journal of Andrology*. Supplement, p-34, Abstract 65. 1992.
- Garner, D. L, S. A. Ericsson, C. A. Thomas and C. E. Marshall. Interrelationships of flow cytometric measurements and classical seminal quality determinations with fertility of cryopreserved bull semen. 12th International Congress on Animal Reproduction, The Hague, Netherlands. August 23-27, Vol. 1: Free Communication 148. 1992.
- Dart, M. G, J. Mesta, C. Crenshaw and S. A. Ericsson. Assessment of the fertility potential of bovine spermatozoa using the reducible dye resazurin. Western Section of American Society of Animal Science, New Mexico State University, Las Cruces, NM. *Journal of Animal Science*. 72, Supplement 2:117, Abstract 84. 1994.
- Wansley, R. G, S. A. Ericsson, C. D. Corn, M. Dart and C. Crenshaw. Cyclophosphamide as a hair loosening agent in Angora goats. Western Section of American Society of Animal Science, New Mexico State University, Las Cruces, NM. *Journal of Animal Science*. 72, Supplement 2:102, Abstract 27. 1994.
- Sternes, K. L, S. Kim and S. A. Ericsson. Use of resazurin and methylene green for estimating bacterial numbers. American Society of Microbiology. Washington D.C. Meeting General Abstracts, page 433, Abstract Q191. 1995.
- Mesta, J, S. A. Ericsson, M. G. Dart, R. G. Wansley and P. R. Weyerts. Assessment of fertility potential of porcine spermatozoa using the reducible dyes methylene green and resazurin. Southern Section of American Society of Animal Science, New Orleans, LA. 73, Supplement 1:26, Abstract 26. 1995.
- Mains, C. R., M. Perkins, M. G. Dart, R. G. Wansley, C. D. Corn and S. A. Ericsson. Relationships

- between semen characteristics and level of dominance in bachelor groups of Blackbuck antelope (*Antilope cervicapra*). Society for the Study of Reproduction 28th Annual Meeting. Davis, CA. Biology of Reproduction. Supplement 1, 52:62. Abstract 23. 1995.
- Crenshaw, C. C., L. M. Martin, C. R. Mains, R. D. Wright, M. G. Dart, R. M. Perkins and S. A. Ericsson. Cryopreservation of Aoudad (*Ammotragus Lervia*) spermatozoa using two different protocols. Annual Conference of the Society for Theriogenology. San Antonio, TX. Proceedings for Annual Meeting, p 321. 1995.
- Carter, R. A., S. A. Ericsson, C. D. Corn, P. R. Weyerts, S. G. Escue and J. Mesta. Determination of the fertility potential of equine semen samples using the reducible dyes methylene green and resazurin. Annual Conference of the Society for Theriogenology. San Antonio, TX. Proceedings for the Annual Meeting, p 316. 1995.
- Santana, L. M., K. L. Sternes, and S. A. Ericsson. Using dyes as a potential indicator of bacterial numbers in river water. 99th Annual Meeting of the Texas Academy of Science. Galveston, TX. Proceedings for the Annual Meeting, p 57, abstract number 69. 1996.
- Martin, L. M., C. C. Crenshaw, J. A. Dean, M. G. Dart and S. A. Ericsson. Evaluation of ovine semen samples for the number of motile spermatozoa using the reducible dye resazurin. American Society of Animal Science, Rapid City, SD. Journal of Animal Science. 74, Supplement 1:216, Abstract 438. 1996.
- Escue, S. G., R. A. Carter and S. A. Ericsson. Assessment of the fertility potential of equine semen using the reducible dyes thionin and 2,6-dichloroindophenol. American Society of Animal Science, Rapid City, SD. Journal of Animal Science. 74, Supplement 1:217, Abstract 440. 1996.
- Perkins, R. M., C. R. Mains, M. G. Dart, R. G. Wansley, B. R. Behr and S. A. Ericsson. Influence of testosterone on measures of dominance in bachelor herds of blackbuck antelope (*Antilope cervicapra*). Annual Meeting of the Animal Behavior Society. Flagstaff, AR. 1996.
- Santana, L. M., K. L. Sternes and S. A. Ericsson. Using dyes as a potential indicator of bacterial number in water. American Society of Microbiology, 97th Annual Meeting Abstracts: 480, 1997.
- Dean, J. A., S.A. Ericsson, A. R. Comstock and J. E. Bruemmer. Assessment of spermatozoal quality in extended cooled equine samples using the reducible dye resazurin. American Society of Animal Science, Nashville, TN. Journal of Animal Science. 75, Supplement 1:221, Abstract 336. 1997.
- Comstock, A. R., S. A. Ericsson, J. S. Pendergraft, K. L. Sternes, J. A. Dean and S. E. Rivera. Assessment of Fresh Extended Equine Semen Samples using Spectrophotometry and Resazurin. Journal of Equine Veterinary Science. 18(10):661. 1998.
- Comstock, A. R., S. A. Ericsson, J. S. Pendergraft, K. L. Sternes, J. A. Dean and S. E. Rivera. The Resazurin Test and Spectrophotometric Analysis of Fresh Extended Equine Semen Samples. Equine Nutrition and Physiology Society, North Carolina. 1999.
- Dodson, R. E., S. A. Ericsson, K. L. Sternes, T. W. Downing and P. H. Purdy. Use of the Reducible Dyes Resazurin, 2',6'-dichloroindophenol and Methylene Green to Estimate Rumen Microbial Numbers. American Society of Animal Science, Indianapolis, IN. Journal of Animal Science. 77 (Supplement 1):253. 1999.
- Purdy, P. H., S. A. Ericsson, R. E. Dodson, K. L. Sternes and D. L. Garner. Assessment of the Effects of Flavonoids on the Motility of Extended Cooled Caprine Spermatozoa. Society for

- the Study of Reproduction 32th Annual Meeting. Pullman, WA. Biology of Reproduction. 60 (Supplement 1):134. 1999.
- Woodward, C. A., S. A. Ericsson, P. H. Purdy, and M. D. Fox. Effect of the flavonoid catechin or epicatechin on the motility of extended cooled equine spermatozoa. American Society of Animal Science, Baltimore, MD. Journal of Animal Science. 78 (Supplement 1):197. 2000.
- Campbell, W. T., S. A. Ericsson, J. S. Pendergraft, K. K. Korth, and J. A. Pitchford. Evaluation of the fertility potential of extended cooled equine spermatozoa using the resazurin reduction test and NADH2. American Society of Animal Science, Indianapolis, IN. Journal of Animal Science. 79 (Supplement 1):466. 2001.
- Pitchford, J. A., S. A. Ericsson, K. K. Korth, L. L. Green, and W. T. Campbell. Assessment of the effects of flavonoids on the post-thaw motility of cryopreserved bovine spermatozoa. American Society of Animal Science, Quebec City, Quebec. Journal of Animal Science. 85 (Supplement 1):303. 2002.
- Dzakuma, J. M., S. A. Ericsson, B. L. Sayre, T. A. Gipson, and H. D. Blackburn. Caprine genetic resource conservation program. American Society of Animal Science, Phoenix, Arizona. Journal of Animal Science. 81 (Supplement 1):68. 2003.
- Spiller, S. F., S. A. Ericsson, R. Realivasquez, W. T. Campbell, K. L. Sternes, P. H. Purdy, H. D. Blackburn, and J. M. Dzakuma. INHA microsatellite polymorphisms in Angora bucks. American Society of Animal Science, St. Louis, Missouri. Journal Animal Science. 82 (Supplement 1):378. 2004.
- Realivasquez, R., S. A. Ericsson, S. F. Spiller, W. T. Campbell, K. L. Sternes, P. H. Purdy, H. D. Blackburn, and J. M. Dzakuma. Spanish buck β -B inhibin/activin (INHBB) microsatellite polymorphisms. American Society of Animal Science, St. Louis, Missouri. Journal Animal Science. 82 (Supplement 1):377-378. 2004.
- Gallegos, A. I., S. A. Ericsson, H. D. Blackburn, S. F. Spiller, B. J. Warnock, M. K. Meador, M. W. Smith, and P. H. Purdy. Effect of storage time on the viability of cryopreserved bovine spermatozoa. American Society of Animal Science, Indianapolis, Indiana. Journal Animal Science. 91 (E-Supplement 2):121. 2013.
- Krehbiel, B.C., Paiva, S., Wilson, C.S., Ericsson, S., Boatright, J., Blackburn, H.D., Thomas, M. 2015. Untapped genetic variability in Herefords: implications for climate change. Meeting Abstract. Western Section American Society of Animal Science, Ruidoso, NM, June 23-26, 2015. Volume 66.

CONSULTING AND OTHER INVITED PROFESSIONAL PRESENTATIONS

- Consultant 1994-present. Androscore Corp., Las Vegas, NV
- Ericsson, S. A. Fertility Research. Texas and Southwestern Cattle Raisers Association Meeting. Alpine, Texas. 1996.
- Ericsson, S. A. Sexed Semen and Fertility Diagnostics: Where Are We? West Texas Range Bull Workshop. Texas A&M Extension Service. Alpine, Texas. January 1998.
- Ericsson, S. A. Beef Production from Conception to Consumption: An Innovative Program for Hispanic and Other Underrepresented Students. Hispanic Serving Institutions, Project Director's Meeting. Washington D.C. 2008

GRANTS RECEIVED

- Principal Investigator. Cryopreservation of Desert Bighorn Sheep (*Ovis canadensis*) Spermatozoa. Chihuahuan Desert Research Institute. \$5,000. 1993-1994.
- Principal Investigator. Cyclophosphamide as a hair loosening agent in Angora goats. Research Enhancement Grant, Sul Ross State University. \$9,397.58. 1993-1994.
- Principal Investigator. Modified Resazurin Reduction Test for Determining the Fertility Potential of Bovine Spermatozoa. Houston Livestock Show and Rodeo Educational Fund. \$2,200. 1993-1994.
- Principal Investigator. The Change in Endocrine Profiles and Semen Characteristics During the Darkening of Coat Color in Blackbuck Antelope Bucks. Research Enhancement Grant, Sul Ross State University. \$5,826.00. 1994-1995.
- Principal Investigator. Cryopreservation of Aoudad (*Ammotragus lervia*) Spermatozoa. Chihuahuan Desert Research Institute. \$5,000. 1994-1995.
- Principal Investigator. Assessment of the Fertility Potential of Porcine Spermatozoa using the Reducible Dyes Resazurin and Methylene Green. Houston Livestock Show and Rodeo Educational Fund. \$5,000. 1994-1995.
- Principal Investigator. Cryopreservation of Mammoth Jack (*Equus asinus*) Spermatozoa. Houston Livestock Show and Rodeo Educational Fund. \$3,200. 1995-1996.
- Principal Investigator. Assessment of the Number of Motile Spermatozoa in Extended Cooled Stallion Samples using the Reducible Dye Resazurin. Research Enhancement Grant, Sul Ross State University. \$5,500.00. 1996-1997.
- Principal Investigator. Quantitative Assay for Determining the Fertility Potential and Extension Rate for Equine Semen Samples. Houston Livestock Show and Rodeo Educational Fund. \$2,500. 1996-1997.
- Principal Investigator. Effects of Phytoestrogens on Equine Spermatogenesis. Houston Livestock Show and Rodeo Educational Fund. \$3,375. 1997-1998.
- Principal Investigator. Flow Cytometric Assessment of Cooled Equine Semen using the Mitochondrial Stain JC-1 and the Viability Fluorophores SYBR-14 and Propidium Iodide, Research Enhancement Grant, Sul Ross State University. \$4,662.00. 1998-1999.
- Principal Investigator. Flow Cytometric Assessment of the Effects of the Antioxidants Ascorbic Acid and Alpha Tocopherol on Cooled Extended Equine Semen using the Fluorophores JC-1 and Propidium Iodide. Houston Livestock Show and Rodeo Educational Fund. \$3,150.00. 1998-1999.
- Principal Investigator. Assessment of the Effects of Flavonoids on the Motility of Cooled Extended Equine Spermatozoa. Research Enhancement Grant, Sul Ross State University. \$2,747.00. 1999-2000.
- Principal Investigator. Effects of Supplemental Diaphorase and NADH₂ on the Kinetics of Resazurin Reduction in Extended Cooled Equine Semen. Houston Livestock Show and Rodeo Educational Fund. \$5,000.00. 1999-2000.
- Co-investigator. Improving Agricultural Programs for Hispanic and Other Underserved Students. United States Department of Agriculture. \$187,770.00. 1999-2001.
- Principal Investigator. Using Web-based Technology to Enhance Learning in Animal Science 4304 – Reproductive Physiology. Web Technology Grant Program, Title III, Sul Ross State

University. \$800.00. 2000.

Principal Investigator. Evaluation of extended-cooled and cryopreservation protocols for the preservation of tapir (*Tapirus indicus*) semen. Research Enhancement Grant, Sul Ross State University. \$4,797.17. 2000-2001.

Principal Investigator. The Effects of Supplemental Flavonoids on Post-Thaw Motility of Cryopreserved Bovine Spermatozoa. Houston Livestock Show and Rodeo Educational Fund. \$3,592. 2000-2001.

Principal Investigator. Faculty Development and Enrichment Grant. Sul Ross State University. \$1,691.22. 2001.

Principal Investigator. Development of a media-rich, standalone web course – General Animal Science (ANSC 1401). Instructional Technology Center. Sul Ross State University. \$2,300. 2001.

Principal Investigator. Association between inhibin- α (INHA) microsatellite polymorphisms and semen characteristics in angora bucks. Research Enhancement Grant, Sul Ross State University. \$4,449.34. 2001-2002.

Principal Investigator. Association between beta (A) – inhibin/activin (INHBA) microsatellite polymorphisms and semen characteristics in angora bucks. Houston Livestock Show and Rodeo Educational Fund. \$5,000.00. 2001-2002.

Principal Investigator. Development of an interactive, media-rich, standalone web course – Agricultural Genetics (ANSC 4305). TIFB Project. Sul Ross State University. \$2,300. 2002.

Collaborator. Utilization, Characterization and Preservation of Goat Genetic Resources. United States Department of Agriculture. \$367,258.00. 2002-2004.

Principal Investigator. Relationship between inhibin-alpha (INHA) microsatellite polymorphisms and semen characteristics in Spanish bucks. Houston Livestock Show and Rodeo Educational Fund. \$2,400.00. 2002-2003.

Principal Investigator. Interrelationships among beta (B) – inhibin/activin (INHBB) microsatellite polymorphisms and fertility parameters in Spanish bucks. Research Enhancement Grant, Sul Ross State University. \$4,767.00. 2002-2003.

Principal Investigator. Improving Agricultural and Natural Resource Programs to Provide Management Experience for Hispanic and Other Unrepresented Students. United States Department of Agriculture. \$210,990.18. 2003-2006.

Co-investigator. Increasing Hispanic Recruitment and Retention in Agricultural and Natural Resource Sciences Through Technology, Mentoring, and Experiential Learning. United States Department of Agriculture. \$202,182.00. 2003-2005.

Principal Investigator. Association Between Scrotal Circumference and Semen Characteristics in Angora Bucks. Research Enhancement Grant, Sul Ross State University. \$3,294.00. 2003-2004.

Principal Investigator. Association Between Inhba Microsatellite Polymorphisms And Fertility Potential Of Spanish Bucks. Research Enhancement Grant, Sul Ross State University. \$4,143.00. 2004-2005.

Principal Investigator. Effects of Catechin, Epicatechin, and Silibinin on the Post-thaw Motility of Cryopreserved Fallow Deer Semen. Research Enhancement Grant, Sul Ross State University. \$4,327.00. 2005-2006.

Principal Investigator. The effect of flavonoids on cryopreserved goat spermatozoa. Research

Enhancement Grant, Sul Ross State University. \$4,162.00. 2006-2007.
Principal Investigator. Assessment of the number of motile spermatozoa in bovine samples using reducible dyes. Research Enhancement Grant, Sul Ross State University. \$4,248.90. 2007-2008.
Principal Investigator. Beef Production from Conception to Consumption: An Innovative Program for Hispanic and Other Underrepresented Students. Hispanic Serving Institution Grant. United States Department of Agriculture. \$280,459. 2008-2011.
Principal Investigator. Cryopreservation of Caprine Oocytes for Genetic Resources Conservation. Research Enhancement Grant, Sul Ross State University. \$4,585.40. 2009-2010.
Collaborator. Promoting Postbaccalaureate Opportunities for Hispanic Americans. Title V Department of Education Grant. \$2,873,474. 2009-2014.
Development of a Sustainable Biological Type of Cattle Through Utilization of Traditional Hereford Genetics. Dixon Water Foundation. \$54,391.29. 2013.
Principal Investigator. Comparison of Traditional and Conventional Hereford Genomic-Enhanced Expected Progeny Differences (Ge-Epds). \$6,060.00. Faculty Enhancement Grant. Sul Ross State University. 2013-2014.
Co-principal Investigator. Genetic Evaluation project. \$61,732.51. Dixon Water Foundation. 2013-2015.

OTHER AFFILIATIONS AND INVOLVEMENT

COMMITTEES AND COUNCILS:

Budget Oversight Council.
Chair of ANSC Promotion Committee.
Chair of ANSC Search Committee.
Collegiate Future Farmers of American Advisory Committee.
Discipline Hearing Committee.
Executive Council.
Faculty Affairs Council.
Faculty Member of the Year Selection Committee.
Financial Aid Appeals Committee.
Financial Resources Self-Study Principal Committee required by the Commission on Colleges of the Southern Association of Colleges and Schools for reaffirmation of accreditation for Sul Ross State University.
Freshman Leadership Committee.
Freshman Seminar Committee.
Graduate Council.
Institutional Animal Care and Use Committee.
Institutional Review Board - Human Subjects Committee.
Learning Resources Council.
McNair Committee.
Member of ANSC Search Committee.

Member of the National Animal Germplasm Program Small Ruminant Subcommittee.
Outstanding Teaching/Piper Award Selection Committee.
Professional Peer Review Committee.
Quality Enhancement Plan Selection Committee.
Range Animal Science Graduate Committee.
Range Animal Science Scholarship Committee.
Research and Development Council.
Search Committee for the Alternative Livestock Management position.
Search Committee for the Dean of Student Life.
Search Committee for the Equine tenure-track position.
Search Committee for the Rodeo Coach position.
Search Committee for the tenure-track Veterinarian position.
Search Committee for Wildlife tenure-track position.
Special Committee Title V Road to Lobo Success
Task Force for Student Preparation (1992-1993).
Task Force for the expansion and renovation of the College of Agriculture and Natural Resource Sciences facilities.
Teacher Education Council.
Teacher of the Year Committee.
Teaching Council.
Title V Special Council for Advising.
University Strategic Planning Taskforce.
Who's Who Selection Committee.

FOCUS GROUPS:

Member of the Scientist-Producer Focus Group, International Goat Research Center, Prairie View A&M University, Prairie View, Texas.
Member of the National Animal Germplasm Program Small Ruminant Subcommittee.

UNIVERSITY PLANS:

Developed the School of Agricultural and Natural Resource Sciences Biosecurity and Agro-terrorism plan.

EDITORSHIPS:

Member of the Editorial Board of Advances in Contraceptive Delivery Systems for years 1996 and 1997.
Member of the Editorial Board of Reproduction/Andrology/Contraception/STD-HIV for 1997.
Member of the Editorial Board of Advances in Reproduction for 1998.

GRANTS, MANUSCRIPTS AND TEXTBOOKS REVIEWED:

Ad hoc reviewer for the National Science Foundation.
Ad hoc reviewer for Molecular Reproduction and Development.
Reviewer for the Texas Journal of Agriculture and Natural Resources.
Reviewer for Small Ruminant Research.
Reviewer for Human Reproduction.
Reviewer for Holt, Rinehart and Winston for textbooks.
Ad hoc reviewer for the Small Business Innovation Research Program.

COOPERATIVE AGREEMENTS:

USDA, Agricultural Research Service. Preservation of Goat Germplasm. \$5,000. 2002-2003.
USDA, Agricultural Research Service. Preservation of Goat Germplasm. \$5,000. 2003-2004.