

LARRY S. KATZ

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Animal Sciences Department
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EDUCATION

Ph.D. Animal Behavior, University of California at Davis
M.S. Reproductive Physiology, Cornell University
B.S. Animal Science, Cornell University

EXPERIENCE

Professor, Rutgers University, New Brunswick, NJ, 2009 to present
Senior Associate Director, NJ Agricultural Experiment Station, 2009 to 2018
Director, Rutgers Cooperative Extension, 2008 to 2018
Chair, Animal Sciences, Rutgers University, 2002 to 2008
Acting Chair, Animal Sciences, Rutgers University, 2001 to 2002
Associate Department Chair, June 1, 2001 to Oct 15, 2001
Associate Professor, Rutgers University, New Brunswick, NJ, 1995 to 2009
Assistant Professor, Rutgers University, New Brunswick, NJ, 1989 to 1995
Research Physiologist, University of California at Berkeley, 1986 to 1989
Post-Graduate Researcher VI, University of California at Davis, 1985 to 1986
NIH Post-Doctoral Training Fellowship in Reproductive Biology, Colorado State University,
Fort Collins, 1984 to 1985

FIELDS OF RESEARCH SPECIALIZATION

Behavior of Domestic Animals
Reproductive Biology
Behavioral Endocrinology

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science
American Society of Animal Science
Animal Behavior Society
Council for Agricultural Science and Technology
International Society of Applied Ethology
Sigma Xi, The Scientific Research Society
Society for Behavioral Neuroendocrinology
Society for the Study of Reproduction

AWARDS

Friend of 4-H Award, New Jersey Association of 4-H Agents, 2019.
Senior Farewell Speaker, invited by the School of Environmental and Biological Sciences
graduating Class of 2011
Service Award, Graduate Program in Endocrinology and Animal Biosciences, 2008
Outstanding Teacher Award, Cook College Leadership Committee on Teaching and
Advising Excellence, 2007
Nominee, Research Mentor of the Year, Aresty Research Center, Rutgers University, 2007
Outstanding Teacher Award, Cook College Leadership Committee on Teaching and
Advising Excellence, 2005
Outstanding Teacher Award, Cook College Leadership Committee on Teaching and
Advising Excellence, 2002
Outstanding Teacher Award, Cook College Leadership Committee on Teaching and
Advising Excellence, 2000
Cook/NJAES Team Award, Wildlife Damage Control Center, 2000
Outstanding Teacher Award, Cook College Leadership Committee on Teaching and
Advising Excellence, 1998
Outstanding Undergraduate Advisor, Cook College Academic Professional Excellence
Awards, 1998
Outstanding Teacher Award, Cook College Leadership Committee on Teaching and
Advising Excellence, 1996
Senior Farewell Speaker, invited by the Cook College graduating Class of 1994
Faculty Appreciation Award, Rutgers' Latin American Student Organization, 1992
NIH Post-Doctoral Training Fellowship in Reproductive Biology, Colorado State University,
1984 to 1985

SCHOLARSHIP:

GRANTS AND CONTRACT SUPPORT

External

Stavros Niarchos Foundation- Recharging the Youth: New Agriculture for a New Generation,
co-P.I., Phase 1: 2015-2016, ~\$2.1 million; Phase 2: 2017-2020, \$27.5 million
Johnson & Johnson-New Brunswick Community Farmers' Market, 2009 to 2018, co-P.I.,
approximately \$125,000 per year
NJ Division of Fish, Game and Wildlife, 2001 to 2003, \$75,000
NJ Department of Agriculture, 2000-2001, \$200,000
NJ Division of Fish, Game and Wildlife, 1998 to 2000, \$60,000
Repellex Protection Systems, 1998-1999, \$1,000
Green Rabbit Botanicals, 1997-1999, \$2,000
Princeton Polymer Laboratories, 1996, \$2,000
Deer-Off Company, 1996, \$900
NJ Division of Fish, Game and Wildlife, 1995 to 1997, \$60,000
American Farm Bureau Research Foundation, April 1994 to Mar 1997, \$56,000
United States Department of Agriculture, APHIS/ADC/DWRC, 1991 to 1994, \$139,998
Sandoz Research Institute, November 1990, \$2,000

SCHOLARSHIP: (continued)

University

NJAES Special Initiative Funds, 1994-1999, \$82,000

Biomedical Research Support Grant, 1990 to 1991, \$2,253

Research Council, 1989 to 1990, \$3,000

INVITED INTERNATIONAL SYMPOSIUM PRESENTATIONS

1. "Bioterrorism, Ecoterrorism and Animal Rights" National Poultry Extension Workshop, Ninety-fifth Annual Meeting of the Poultry Science Association, University of Alberta, Edmonton, Canada, July 16, 2006
2. "A Role for the Liver in the Luteotropic Action of Prolactin in Rats". Assisted Reproductive Technology/Andrology and Molecular Andrology Conference. Alicante, Spain, July 1993

INVITED NATIONAL SYMPOSIUM PRESENTATIONS

1. "Reproductive control in wildlife: Is it a viable management tool?" Nonlethal Approaches to Wildlife Damage Management: Promise, Potential, Reality. The Wildlife Society, Nashville, TN, September 2000
2. "Continuous administration of a gonadotropin-releasing hormone (GnRH) agonist inhibits luteinizing hormone (LH) secretion in female white-tailed deer." Contraception in Wildlife Management. Colorado State University, Denver Tech Center, Denver, CO, October 1993
3. "Mid-Gestation White-tailed Deer are Resistant to the Abortifacient Properties of Prostaglandin-F_{2α} (PGF_{2α})." Contraception in Wildlife Management. Colorado State University, Denver Tech Center, Denver, CO, October 1993
4. "Sexual Behavior of Farm Animals". Reproduction in Farm Animals: Science, Application and Models. Cornell University, Ithaca, NY, August 1992

BOOK CHAPTERS and SYMPOSIUM PROCEEDINGS

1. **Katz, L.S.** 2018. "Animal Experimentation": Animals Medicine and Research. In: Animals and Human Society. Scanes and Toukhsati [eds.]. Academic Press, pp. 325-329.
2. Mench, J., Newberry, R., Millman, S., Tucker, C. and **Katz, L.S.** 2010. Environmental Enrichment. In: Guide for the Care and Use of Agricultural Animals in Agricultural Research and Teaching, 3rd edition. Federation of Animal Science Societies, 30-43.
3. Becker, S.E. and **Katz, L.S.** 1999. A Case Study of Malignant Catarrhal Fever in Captive White-tailed Deer. The North American Deer Farmer, Late Summer 1999:11-12, 24.
4. Benson, M.E., Hinds, F.C., Johnson, D.W., **Katz, L.S.**, Menzies, C.S., Williams, C.S.F., and Wolf, C.B. 1999. Sheep and Goat Husbandry. In: Guide for the Care and Use of Agricultural Animals in Agricultural Research and Teaching. Federation of Animal Science Societies, 67-71.

BOOK CHAPTERS and SYMPOSIUM PROCEEDINGS (continued)

5. Becker, S.E. and **Katz, L.S.** 1997. Gonadotropin-releasing hormone (GnRH) analogs or active immunization against GnRH to control fertility in wildlife. In: Kreeger, T.J., tech. coord. Contraception in Wildlife Management. Tech. Bull. 1853. Washington, D.C.: U.S. Department of Agriculture, Animal and Plant Health Inspection Service: 11-19.
6. Mason, J.R., Bean, N.J., **Katz, L.S.** and Hales, H. 1997. Development of a bait for the oral delivery of pharmaceuticals to white-tailed deer (*Odocoileus virginianus*). In: Kreeger, T.J., tech. coord. Contraception in Wildlife Management. Tech. Bull. 1853. Washington, D.C.: U.S. Department of Agriculture, Animal and Plant Health Inspection Service: 59-67.
7. **Katz, L.S.** 1987. Endocrine systems and behavior. *Veterinary Clinics of North America: Food Animal Practice* 3:393-404.

OTHER PEER-REVIEWED PUBLICATIONS

1. **Katz, Larry S.** Behavior: Reproductive. 2010. In: *Encyclopedia of Animal Science*, 2nd edition; Pond, Wilson G., Bell, Alan W., Eds.; Marcel Dekker, Inc.: New York.
2. **Katz, Larry S.** Behavior: Reproductive. 2004. In: *Encyclopedia of Animal Science*; Pond, Wilson G., Bell, Alan W., Eds.; Marcel Dekker, Inc.: New York.

REFEREED PUBLICATIONS

1. Fritz, Jr., W.F., Becker, S.E., and **L.S. Katz.** *In preparation.* Domesticated male goats (*Capra hircus*) use self-enurination to present attractive olfactory cues to estrous females.
2. Fritz, Jr., W.F., Sena, L.S., Becker, S.E., and **L.S. Katz.** 2019. Differential effects of androgens, estrogens and socio-sexual context on sexual behaviors in the castrated male goat (*Capra hircus*). *Hormones and Behavior* 109:10-17. doi:10.1016/j.yhbeh.2019.01.008
3. Longpre K.M., Guterl, J.N., and **L.S. Katz.** 2016. Proximity to females alters circulating testosterone concentrations and body weight in male goats. *Small Ruminant Research* 144:334-340. doi:10.1016/j.smallrumres.2016.10.014
4. Longpre, K.M., Kinstlinger, N.S., Mead, E.A., Wang, Y., Thekkumthala, A.P., Carreno, K.A., Hot, A., Keefer, M., Tully, L., **Katz, L.S.**, and Pietrzykowski, A.Z. 2014. Seasonal variation in urinary microRNA expression in male goats (*Capra hircus*) as assessed by next generation sequencing. *General and Comparative Endocrinology* 199:1-15. doi:10.1016/j.ygcen.2014.01.002
5. Longpre K.M., Koepfinger, M.E. and **L.S. Katz.** 2011. Female goats use courtship display as an honest indicator of male quality. *Hormones and Behavior* 60: 505-511. doi:10.1016/j.yhbeh.2011.07.019
6. Haulenbeek, A.M. and **L.S. Katz.** 2011. Female tail wagging enhances sexual performance in male goats. *Hormones and Behavior* 60:244-247. doi:10.1016/j.yhbeh.2011.05.008
7. Longpre K.M. and **L.S. Katz.** 2011. Estrous female goats use testosterone-dependent cues to assess mates. *Hormones and Behavior* 59: 98-104. doi:10.1016/j.yhbeh.2010.10.014

REFEREED PUBLICATIONS (continued)

8. Margiasso, M.E., Longpre, K.M. and **L.S. Katz.** 2010. Partner Preference: Assessing the Role of the Female Goat. *Physiology and Behavior* 99:587-591.

doi:10.1016/j.physbeh.2010.01.022

9. **Katz, L. S.** 2008. Variation in male sexual behavior. *Animal Reproduction Science* 105: 64-71. *doi:10.1016/j.anireprosci.2007.11.019*
10. Imwalle, D.B., Lehrer, A.R., and **L.S. Katz.** 2007. Intravaginal impedance and sexual behavior of ovariectomized goats given estrogen alone or in combination with progesterone. *J. Animal Science* 85: 1908-1913. *doi:10.2527/jas.2007-0096*
11. **Katz, L.S.** 2007. Sexual behavior of domesticated ruminants. *Hormones and Behavior* 52: 56-63. *doi:10.1016/j.yhbeh.2007.03.012*
12. Shearer, M.K. and **L.S. Katz.** 2006. Female-female mounting among goats stimulates sexual performance in males. *Hormones and Behavior* 50:33-37. *doi:10.1016/j.yhbeh.2006.01.001*
13. Imwalle, D.B. and **L.S. Katz.** 2004. Development of sexual behavior over several serving capacity tests in male goats. *Applied Animal Behaviour Science* 89:315-319. *doi:10.1016/j.applanim.2004.07.003*
14. Imwalle, D.B. and **L.S. Katz.** 2004. Divergent roles for estrogens and androgens in expression of female goat sexual behavior. *Hormones and Behavior* 46: 54-58. *doi:10.1016/j.yhbeh.2004.01.008*
15. Savage, A.F., Maull J., Tian X.C., Taneja M., **Katz L.**, Darre M., and Yang X. 2003. Behavioral Observations of Adolescent Holstein Heifers Cloned from Adult Somatic Cells. *Theriogenology* 60 (6): 1097-1110. *doi:10.1016/S0093-691X(03)00110-9*
16. Booth, K.K. and **L.S. Katz.** 2000. The role of the vomeronasal organ in neonatal offspring recognition in sheep. *Biology of Reproduction* 63:953-958. *doi:10.1095/biolreprod63.3.953*
17. Becker, S.E. Enright, W.J., and **L.S. Katz.** 1999. Active immunization against gonadotropin-releasing hormone in female white-tailed deer. *Zoo Biology* 18:385-396. *doi: 10.1002/(SICI)1098-2361(1999)18:5<385::AID-ZOO3>3.0.CO;2-3*
18. Billings, H.J. and **L.S. Katz.** 1999. Facilitation of sexual behavior in French-Alpine goats treated with intravaginal progesterone releasing devices and estradiol in both the breeding and nonbreeding seasons. *J. Animal Science* 77: 2073-2078. *doi:10.1006/hbeh.1997.1356*
19. Billings, H.J. and **L.S. Katz.** 1999. Male influence on proceptivity in ovariectomized French-Alpine goats (*Capra hircus*). *Applied Animal Behaviour Science* 64:181-191. *doi:10.1016/S0168-1591(99)00035-0*
20. Maina, D. and **L.S. Katz.** 1999. Scent of a ewe: transmission of a social cue by conspecifics affects sexual performance in *Ovis aries*. *Biology of Reproduction* 60: 1373-1377. *doi:10.1095/biolreprod60.6.1373*
21. Billings, H.J. and **L.S. Katz.** 1998. Threshold dose of estradiol for inducing sexual receptivity in ovariectomized French-Alpine goats. *Applied Animal Behaviour Science* 57:109-116. *doi:10.1016/S0168-1591(97)00131-7*
22. Billings, H.J. and **L.S. Katz.** 1997. Progesterone facilitation and inhibition of estradiol-induced sexual behavior in the female goat. *Hormones and Behavior* 31:47-53. *doi:10.1006/hbeh.1997.1356*

REFEREED PUBLICATIONS (continued)

23. Maina, D. and **L.S. Katz**. 1997. Exposure to a recently mated conspecific may enhance ram sexual performance. *Applied Animal Behaviour Science* 51:69-74. [doi:10.1016/S0168-1591\(96\)01092-1](https://doi.org/10.1016/S0168-1591(96)01092-1)
24. John-Alder, H.B., S. McMann, **L.S. Katz**, A. Gross and D.S. Green. 1996. Social modulation of exercise endurance in a lizard (*Sceloporus undulatus*). *Physiological Zoology* 69:547-567.
25. Kaplan, D.H. and **L.S. Katz**. 1995. Luteinizing hormone response to estradiol positive feedback is not an effective endocrine parameter to monitor photoresponsiveness in ovariectomized goats (*Capra hircus*). *Small Ruminant Research* 18:239-244. [doi.org/10.1016/0921-4488\(95\)00699-7](https://doi.org/10.1016/0921-4488(95)00699-7)
26. Becker, S.E. and **L.S. Katz**. 1995. Effect of a gonadotropin-releasing hormone agonist on serum luteinizing hormone concentrations in female white-tailed deer. *Small Ruminant Research* 18:145-150.
27. **Katz, L.S.** 1995. The liver participates in the luteotropic action of prolactin in rats. *Assisted Reproductive Technology / Andrology* 7:157-161.
28. Wohlt, J.E., M.E. Allyn, P.K. Zajac and **L.S. Katz**. 1994. Cortisol increases in plasma of Holstein heifer calves from handling and method of electrical dehorning. *J. Dairy Science* 77:3725-3729. [doi:10.3168/jds.S0022-0302\(94\)77317-3](https://doi.org/10.3168/jds.S0022-0302(94)77317-3)
29. Kaplan, D.H. and **L.S. Katz**. 1994. Exposure to constant photoperiod alters serum prolactin concentrations and behavioral response to estradiol in the ovariectomized goat. *J. Animal Science* 72:3088-3097. [doi:10.2527/1994.72123088x](https://doi.org/10.2527/1994.72123088x)
30. Becker, S.E. and **L.S. Katz**. 1994. Effects of exogenous prostaglandin-F_{2-α} (PGF_{2-α}) on pregnancy status in white-tailed deer. *Zoo Biology* 13:315-323.
31. Regisford, E.G.C. and **L.S. Katz** 1994. Effects of bromocriptine treatment on the expression of sexual behavior in male sheep (*Ovis aries*). *J. Animal Science* 72:591-597. [doi:10.2527/1994.723591x](https://doi.org/10.2527/1994.723591x)
32. Regisford, E.G.C. and **L.S. Katz**. 1993. Effects of bromocriptine-induced hypoprolactinemia on gonadotropin secretion and testicular function in rams (*Ovis aries*) during two seasons. *J. Reproduction and Fertility* 99:529-537. [doi:10.1530/jrf.0.0990529](https://doi.org/10.1530/jrf.0.0990529)
33. Schlechter, N.L., **L.S. Katz**, S.M. Russell and C.S. Nicoll 1993. Physiological evaluation of the role of the liver as a mediator of the growth promoting action of somatotrophin. *Zoological Science* 10:235-244.
34. **Katz, L.S.** and C.S. Nicoll 1993. Evidence for a role of the liver in mediating the luteotropic action of prolactin in rats. *Biology of Reproduction* 48:512-514. [doi:10.1095/biolreprod48.3.512](https://doi.org/10.1095/biolreprod48.3.512)
35. **Katz, L.S.**, and T.J. McDonald. 1992. Sexual behavior of farm animals. In: *Reproduction in Farm Animals: Science, Application and Models. Theriogenology* 38:240-254. [doi:10.1016/0093-691X\(92\)90233-H](https://doi.org/10.1016/0093-691X(92)90233-H)
36. English, D.E., S.M. Russell, **L.S. Katz** and C.S. Nicoll. 1990. Evidence for a role of the liver in the mammatrophic action of prolactin. *Endocrinology* 126:2252-2256. [doi:10.1210/endo-126-5-2252](https://doi.org/10.1210/endo-126-5-2252)
37. Price, E.O., **L.S. Katz**, S.J.R. Wallach and J.J. Zenchak. 1988. The relationship of male-male mounting to the sexual preferences of young rams. *Applied Animal Behaviour Science* 21:347-355. [doi:10.1016/0168-1591\(88\)90069-X](https://doi.org/10.1016/0168-1591(88)90069-X)

REFEREED PUBLICATIONS (continued)

38. Zenchak, J.J., **L.S. Katz**, E.O. Price and S.J.R. Wallach. 1988. Sexual behavior of rams

as influenced by the degree of restraining estrous ewes and by the additional presence of anestrus ewes. *J. Animal Science* 66:2851-2855.

doi:10.2527/jas1988.66112851x

39. **Katz, L.S.**, E.O. Price, S.J.R. Wallach and J.J. Zenchak. 1988. Sexual performance of rams reared with or without females after weaning. *J. Animal Science* 66:1166-1173.
40. Griffen, S.C., S.M. Russell, **L.S. Katz** and C.S. Nicoll. 1987. Insulin exerts metabolic and growth-promoting effects by a direct action on the liver *in vivo*: clarification of the functional significance of the portal vascular link between the beta cells of the pancreatic islets and the liver. *Proceedings of the National Academy of Sciences* 84:7300-7304. *doi:10.1073/pnas.84.20.7300*
41. Doherty, W.C., E.O. Price and **L.S. Katz**. 1987. A note on activity monitoring as a supplement to estrus detection methods for dairy goats. *Applied Animal Behaviour Science* 17:347-351. *doi:10.1016/0168-1591(87)90157-2*
42. Dunn, G.C., E.O. Price and **L.S. Katz**. 1987. Fostering calves by odor transfer. *Applied Animal Behaviour Science* 17:33-39. *doi:10.1016/0168-1591(87)90005-0*
43. Price, E.O., V.M. Smith and **L.S. Katz**. 1986. Stimulus conditions influencing self-enurination, genital grooming and flehmen in male goats. *Applied Animal Behaviour Science* 16:371-381. *doi:10.1016/0168-1591(86)90009-2*
44. **Katz, L.S.** and E.O. Price. 1986. The role of penile stimulation and ejaculatory experience on the development and maintenance of reproductive behavior in the bull (*Bos taurus*). *Developmental Psychobiology* 19:197-209. *doi:10.1002/dev.420190306*
45. Price, E.O., **L.S. Katz**, G.P. Moberg and S.J.R. Wallach. 1986. Inability to predict sexual and aggressive behaviors by plasma concentrations of testosterone and luteinizing hormone in Hereford bulls. *J. Animal Science* 62:613-617. *doi:10.1016/0093-691X(92)90233-H*
46. Price, E.O., V.M. Smith and **L.S. Katz**. 1984. Sexual stimulation of male dairy goats. *Applied Animal Behaviour Science* 13:83-92.
47. Butler, W.R., **L.S. Katz**, J. Arriola, R.A. Milvae and R.H. Foote. 1983. On the negative feedback regulation of gonadotropins in castrate and intact cattle with comparison of two FSH radioimmunoassays. *J. Animal Science* 56:919-929. *doi:10.2527/jas1983.564919x*
48. Dykeman, D.A., **L.S. Katz** and R.H. Foote. 1982. Behavioral characteristics of beef steers administered estradiol, testosterone and dihydrotestosterone. *J. Animal Science* 55:1303-1309.
49. **Katz, L.S.**, E.A.B. Oltenacu and R.H. Foote. 1980. The behavioral responses in ovariectomized cattle to either estradiol, testosterone, androstenedione, or dihydrotestosterone. *Hormones and Behavior* 14:224-235. *doi:10.1016/0018-506X(80)90031-8*
50. Heckman, G.S., **L.S. Katz**, R.H. Foote, E.A.B. Oltenacu, N.R. Scott and R.A. Marshall. 1978. Estrous cycle patterns in cattle monitored by electrical resistance and milk progesterone. *J. Dairy Science* 62:64-68. *doi:10.3168/jds.S0022-0302(79)83203-8*

ABSTRACTS

1. Becker, S.E., Chmiel, J.R., Kober, C., Simpson, V. and **L.S. Katz**. 2018. The effect of co-twin gender on sexual and agonistic behavior in the female goat (*Capra hircus*). Society for Behavioral Neuroendocrinology, Toronto, Canada.
2. Fritz, W.F., Becker, S.E. and **L.S. Katz**. 2017. Effects of simulated self-enurination on reproductive behavior and endocrinology in male goats (*Capra hircus*) during the transition into the breeding season. American Society of Animal Science, Baltimore, Md.
3. Fritz, W.F., Becker, S.E. Alexander, B.M. and **L.S. Katz**. 2016. Simulated self-enurination increases serum luteinizing hormone concentrations in male goats (*Capra hircus*). Society for the Study of Reproduction, San Diego, CA.
4. Karamichael, K.K., **Katz, L.S.** and S. Nolan. 2016 Collective Impact: The Strategies and Realities of Implementing a 'Shared Youth Vision'. National Youth-At-Risk Conference, Savannah, GA.
5. Fritz, W.F., Sena, L.S, Becker, S.E. and **L.S. Katz**. 2015. Differential effects of androgens and estrogens on sexual behaviors in the male goat. (*Capra hircus*). Society for Behavioral Neuroendocrinology, Asilomar, CA.
6. Fritz, W.F., Becker, S.E. Alexander, B.M. and **L.S. Katz**. 2014. Simulated Self-enurination Induces Flehmen but Does Not Affect Serum LH Concentrations in Male Goats, Animal Behavior Society, Princeton, NJ.
7. Fritz, W.F., Becker, S.E. and **L.S. Katz**. 2013. Simulated self-enurination in male goats (*Capra hircus*) induces flehmen response and increases serum testosterone concentrations. Society for Behavioral Neuroendocrinology, Atlanta, GA.
8. Becker, S.E. Fritz, W.F. and **L.S. Katz**. 2012. Estrous goats' preference for estradiol-versus dihydrotestosterone-dependent olfactory cues. Society for Behavioral Neuroendocrinology, Madison, WI.
9. Longpre, K.M. and **L.S. Katz**. 2011. Female mate choice in the domesticated goat, (*Capra hircus*). American Society of Animal Science, New Orleans, LA.
10. Longpre, K.M. and **L.S. Katz**. 2010. The "female effect" in *Capra hircus*: cause and consequence. Society for Behavioral Neuroendocrinology, Toronto, Canada.
11. Longpre, K.M. and **L.S. Katz**. 2010. Males cannot lie: Females use honest cues to assess fitness. Society for Integrative and Comparative Biology, Seattle, WA.
12. Haulenbeek, A. M. Colandreo, A. and **L.S. Katz**. 2009. Partner preference and sexual performance in male goats. Society for Behavioral Neuroendocrinology, East Lansing, MI.
13. Longpre, K.M. and **L.S. Katz**. 2009. Females use testosterone regulated cues to assess potential mates. Society for Behavioral Neuroendocrinology, East Lansing, MI.
14. Haulenbeek, A. M. and **L.S. Katz**. 2008. Female tail wagging enhances sexual performance in male goats, *Capra hircus*. Animal Behavior Society, Snowbird, Utah.
15. Longpre, K.M., Becker, S.E. and **L.S. Katz**. 2008. Female mate choice is influenced by male olfactory cues in the domestic goat, *Capra hircus*. Animal Behavior Society, Snowbird, Utah.

ABSTRACTS (continued)

16. Imwalle, D. B. and **Katz, L.S.** 2007. Suppression of the hypothalamic-pituitary-adrenal axis fails to affect sexual behavior in estradiol-treated ovariectomized goats. Society for Behavioral Neuroendocrinology, Asilomar, CA.
17. Haulenbeek, A.M. and **Katz, L.S.** 2007. Female tail wagging elicits partner preference in male goats. Society for Behavioral Neuroendocrinology, Asilomar, CA.
18. Longpre, K.M., Becker, S.E. and **L.S. Katz.** 2007. Estrous goats may use olfactory cues to choose prospective mates. Society for Behavioral Neuroendocrinology, Asilomar, CA.
19. Wohlt, J.E., Imwalle, D.B. and **Katz, L.S.** 2006. Use of recycled paper (news/office) and straw as bedding and their effects on heifer cleanliness and behavior. Federation of Animal Science Societies Joint Annual Meeting, Minneapolis, MN.
20. Imwalle, D. B., Becker, S.E., and **Katz, L.S.** 2006. Novel approaches to teaching behavior to animal science students. Federation of Animal Science Societies Joint Annual Meeting, Minneapolis, MN.
21. Haulenbeek, A. M. and **L.S. Katz.** 2006. Partner preference in male goats to measure sexual motivation. Society for Behavioral Neuroendocrinology, Pittsburgh, PA.
22. Nichols, M. and **L.S. Katz.** 2006. An optimal dose of testosterone for activating sexual behaviors in ovariectomized goats. Society for Behavioral Neuroendocrinology, Pittsburgh, PA.
23. Imwalle, D. B., Lehrer, A.R., and **Katz, L.S.** 2006. Androgen receptor antagonism, intravaginal impedance and sexual behavior in female goats. Society for Behavioral Neuroendocrinology, Pittsburgh, PA.
24. Margiasso, M.E. and **L.S. Katz.** 2005. Use of a Y-Maze to Test Partner Preference in female Goats. Society for the Study of Reproduction, Quebec, Canada.
25. Sweeney, A. and **L.S. Katz.** 2005. Use of a Y-Maze to Test Partner Preference in Male Goats. Society for the Study of Reproduction, Quebec, Canada.
26. Imwalle, D.B., Lehrer, A.R. and **L.S. Katz.** 2005. Estradiol initiates and progesterone sustains the drop in vaginal impedance at estrus in ovariectomized goats. Society for the Study of Reproduction, Quebec, Canada.
27. Becker, S. E. and **L.S. Katz.** 2005. Seasonal changes in serum leptin concentrations and body weight in captive female white-tailed deer. Society for the Study of Reproduction, Quebec, Canada.
28. Riesen, J. Hafs, H., **Katz, L.S.**, McCone, G., Schoknecht, P. and Stokes, M. 2005. Digital Image Gallery to Assist Learning Animal, Dairy and Poultry Sciences; Photos and Illustrations Solicited. Federation of Animal Science Societies Joint Annual Meeting, Cincinnati, OH.
29. Wohlt, J.E., Imwalle, D.B., **Katz, L.S.** and Zirkle, E.W. 2005. Effect of tagging site in chicks on broiler performance, pecking behavior, and tag retention. Federation of Animal Science Societies Joint Annual Meeting, Cincinnati, OH.
30. Imwalle, D.B. and **L.S. Katz.** 2004. An aromatase inhibitor fails to suppress estrous behavior in testosterone-treated ovariectomized goats. Society for Behavioral Neuroendocrinology, Lisbon, Portugal, Hormones and Behavior.
31. Imwalle, D.B. and **L.S. Katz.** 2004. Repeatability of serving capacity scores in male goats requires prior sexual experience. International Society of Applied Ethology-North American Region, Purdue, IN.

ABSTRACTS (continued)

32. Sweeney, A., Imwalle, D.B. and **L.S. Katz.** 2004. Assessment of motivation in male

- goats as a predictive tool for sexual performance. International Society of Applied Ethology-North American Region, Purdue, IN.
33. Shearer, M. and **L.S. Katz**. 2003. Female-female mounting among goats stimulates sexual performance in males. Society for Behavioral Neuroendocrinology, Cincinnati, OH, *Hormones and Behavior* 44:77.
 34. Lindia, J.A. and **L.S. Katz**. 2003. Estradiol and testosterone stimulation of sexual behavior in ovariectomized female goats. Society for Behavioral Neuroendocrinology, Cincinnati, OH, *Hormones and Behavior* 44:62.
 35. Imwalle, D.B. and **L.S. Katz**. 2003. The effects of flutamide on ovariectomized goat sexual behavior. Society for Behavioral Neuroendocrinology, Cincinnati, OH, *Hormones and Behavior* 44:56.
 36. McMunn, K.A. and **L.S. Katz**. 2001. Testosterone-induced sexual behavior in castrated sexually inexperienced goats. Society for Behavioral Neuroendocrinology, Tempe, AZ. *Hormones and Behavior* 39:339.
 37. Lindia, J.A. and **L.S. Katz**. 2000. Induction of Sexual Behavior in Female French-Alpine Goats Treated with Androgens. Society for the Study of Reproduction, Madison, WI.
 38. Fritzell Jr., P.A., Hughes, M., **Katz, L.**, Slifer, G. and J. Grande. 2000. Farmer tolerance of deer damage in New Jersey: estimates of yield losses and other impacts on production. Fifty-sixth Annual Northeast Fish and Wildlife Conference, Charleston, West Virginia.
 39. Becker, S.E. and **L.S. Katz**. 1999. A case study of malignant catarrhal fever in captive white-tailed deer. Fifty-fifth Annual Northeast Fish and Wildlife Conference, Manchester, NH.
 40. Maina, D. and **L.S. Katz**. 1998. Ram sexual performance and systemic administration of oxytocin (OT) or a selective OT antagonist (OTA). Society for the Study of Reproduction, College Station, TX.
 41. Becker, SE and **L.S. Katz**. 1998. Active immunization against a recombinant GnRH conjugate (rGnRH) in female white-tailed deer. Society for the Study of Reproduction, College Station, TX.
 42. Becker, SE and **L.S. Katz**. 1998. Serum testosterone concentration and the occurrence of antlers in captive female white-tailed deer. Northeast Fish and Wildlife Conference, Camp Hill, PA.
 43. Becker, SE and **L.S. Katz**. 1997. Diurnal serum cortisol patterns in captive white-tailed deer. Northeast Fish and Wildlife Conference, Framingham, MA.
 44. Billings, H.J., Palacios, M.G. and **L.S. Katz**. 1997. Male influence on proceptivity in female goats. Society for Behavioral Neuroendocrinology, Baltimore, MD.
 45. Maina, D. and **L.S. Katz**. 1997. Plasma oxytocin concentrations in rams during mating and throughout the day. Society for the Study of Reproduction, Portland, OR.
 46. Billings, H.J., and **L.S. Katz**. 1997. Effect of photoperiod changes on sexual behavior and serum prolactin concentrations in female goats. Society for the Study of Reproduction, Portland, OR.

ABSTRACTS (continued)

47. Morris, J.M., Fuquay, J.W. and **L.S. Katz**. 1996. Effect of gonadotropin-releasing hormone at estrus on subsequent estrual behavior in Holstein heifers. American Dairy Science Association, Corvallis, OR.
48. Billings, H.J. and **L.S. Katz**. 1996. Circannual serum prolactin concentrations in female goats housed in constant long or short photoperiods. Society for the Study of Reproduction, London, Ontario, Canada.
49. Maina, D. and **L.S. Katz**. 1996. Social and sexual behaviors do not alter plasma oxytocin concentrations in mature rams. Society for the Study of Reproduction, London, Ontario, Canada.
50. Becker, S.E. and **L.S. Katz**. 1996. Reproductive season and serum prolactin concentrations in non-pregnant, captive white-tailed deer. Society for the Study of Reproduction, London, Ontario, Canada.
51. Maina, D. and **L.S. Katz**. 1995. Serum prolactin and testosterone concentrations are not altered by sexual behavior in mature rams. American Society of Animal Science, Orlando, FL.
52. Billings, H.J. and **L.S. Katz**. 1995. The effect of progesterone on the ability of estradiol to stimulate sexual behavior in female goats in controlled photoperiods. Society for the Study of Reproduction, Davis, CA.
53. Sukoff, S.J. and **L.S. Katz**. 1995. Effects of tamoxifen, an estrogen antagonist, on the sexual behavior of testosterone-treated castrated goats. Society for the Study of Reproduction, Davis, CA.
54. Becker, S.E. and **L.S. Katz**. 1995. Active immunization against a GnRH-Ovalbumin conjugate in female white-tailed deer. Society for the Study of Reproduction, Davis, CA.
55. Regisford, E.G.C. and **L.S. Katz**. 1994. Testicular LH receptor numbers are dependent on serum prolactin (PRL) concentrations in the ram (*Ovis aries*). Society for the Study of Reproduction, Ann Arbor, MI.
56. Becker, S.E. and **L.S. Katz**. 1994. Development of an oral bait to attract white-tailed deer and deliver a synthetic progestin. American Society of Animal Science, Minneapolis, MN.
57. **Katz, L.S.**, N.J. Rosenberg, and R.V. Shah. 1994. Seasonal effects of bromocriptine-induced hypoprolactinemia and sulpiride-induced hyperprolactinemia on sexual behavior in male goats. American Society of Animal Science, Minneapolis, MN.
58. Mason, J.R., N.J. Bean, **L.S. Katz**, and H. Hales. 1993. Development of a bait for the oral delivery of pharmaceuticals to white-tailed deer. Contraception in Wildlife Management. Colorado State University, Denver Tech Center, Denver, CO.
59. Becker, S.E. and **L.S. Katz**. 1993. Continuous administration of a gonadotropin-releasing hormone (GnRH) agonist inhibits luteinizing hormone (LH) secretion in female white-tailed deer. Contraception in Wildlife Management. Colorado State University, Denver Tech Center, Denver, CO.

ABSTRACTS (continued)

60. **Katz, L.S.** and S.E. Becker. 1993. Mid-Gestation white-tailed deer are resistant to the abortifacient properties of prostaglandin-F_{2α} (PGF_{2α}). Contraception in Wildlife Management. Colorado State University, Denver Tech Center, Denver, CO.
61. **Katz, L.S.** 1993. A role for the liver in the luteotropic action of prolactin in rats. ARTA Conference, Alicante, Spain. Assisted Reproductive Technology/Andrology 5:235.
62. Becker, S.E. and **L.S. Katz.** 1993. Effect of dose and route of administration of a GnRH agonist on serum LH concentrations in white-tailed deer. Society for the Study of Reproduction, Fort Collins, CO.
63. Kaplan, D.H., C. Nunez and **L.S. Katz.** 1993. Effect of photoperiod on the behavioral response to estradiol (E₂) in ovariectomized (Ovx) goats. Society for the Study of Reproduction, Fort Collins, CO.
64. **Katz, L.S.** and S.E. Becker. 1993. Effects of a gonadotropin-releasing hormone agonist on serum luteinizing hormone concentrations in white-tailed deer. Northeast Fish and Wildlife Conference, Atlantic City, NJ.
65. **Katz, L.S.**, S. Willens, E.G.C. Regisford and S.V. Radecki. 1992. The prolactin response of rams to sexual activities with conspecifics in various social environments. Society for the Study of Reproduction, Raleigh, NC.
66. Regisford, E.G.C. and **L.S. Katz.** 1992. The effect of 2-Bromo-alpha-ergocriptine (CB-154) treatment on sexual behavior in rams during two seasons. American Society of Animal Science, Pittsburgh, PA.
67. John-Alder, H.B., S. McMann, A. Gross and **L.S. Katz.** 1992. Androgenic enhancement of exercise endurance in lizards. American Society of Zoologists, Duke University Marine Laboratory, Beaufort, NC.
68. Becker, S.E. and **L.S. Katz.** 1992. Mid-pregnant white-tailed deer are resistant to the abortifacient properties of prostaglandin-F_{2α} (PGF_{2α}). American Society of Animal Science, Pittsburgh, PA.
69. Kaplan, D.H. and **L.S. Katz.** 1992. Secretion of luteinizing hormone by adult ovariectomized goats that were prenatally exposed to testosterone, following an injection of estradiol-17β. American Society of Animal Science, Pittsburgh, PA.
70. Regisford, E.G.C. and **L.S. Katz.** 1992. Effects of bromocriptine treatment on ram testicular function in fall and spring. Society for the Study of Reproduction, Raleigh, NC.
71. Regisford, E.G.C. and **L.S. Katz.** 1991. Relationship between sexual activity and serum concentrations of prolactin (PRL), follicle-stimulating hormone (FSH), luteinizing hormone (LH) and testosterone (T) in mature rams. Society for the Study of Reproduction, Vancouver, B.C.
72. **Katz, L.S.**, and N.K. Gupta. 1991. The liver can mediate prolactin's ability to lengthen the rat estrous cycle. Endocrine Society, Washington, D.C.
73. Russell, S.M., N.L. Schlechter and **L.S. Katz.** 1990. Physiological evaluation of the role of the liver as the primary mediator of the growth-promoting action of growth hormone. Endocrine Society, Atlanta, GA.
74. **Katz, L.S.**, S.M. Russell and C.S. Nicoll. 1989. Body growth in hypophysectomized male rats following pulsatile or continuous intra hepatic or intrajugular hGH. American Society of Zoologists, Boston, MA.

ABSTRACTS (continued)

75. Price, E.O., **L.S. Katz,** S.J.R. Wallach and J.J. Zenchak. 1988. Homosexual vs.

- heterosexual preferences of male sheep. Animal Behavior Society, University of Montana, Missoula.
76. Price, E.O., D.R. Mader, S.J.R. Wallach, V.M. Smith and **L.S. Katz**. 1987. Differential response to sexual stimulation in male cattle, goats and sheep. Animal Behavior Society, Williams College, Williamstown, MA.
 77. **Katz, L.S.**, R.P. Amann and T.M. Nett. 1987. Hypothalamic aromatase activity in prepubertal bulls (*Bos taurus*). Western Regional Conference on Comparative Endocrinology, California State University, Hayward.
 78. Price, E.O., S.J.R. Wallach, **L.S. Katz** and J.J. Zenchak. 1986. Effects of rearing bulls and rams with females on adult sexual performance. American Society of Animal Science, Kansas State University, Manhattan.
 79. Zenchak, J.J., **L.S. Katz**, E.O. Price and S.J.R. Wallach. 1986. Effects of restraining estrous ewes and the presence of anestrous ewes on ram sexual behavior. Annual Meeting of the American Society of Animal Science, Kansas State University, Manhattan.
 80. **Katz, L.S.**, E.O. Price, S.J.R. Wallach and J.J. Zenchak. 1986. Sexual performance of young rams previously determined to be sexually inactive. American Society of Animal Science, Kansas State University, Manhattan.
 81. **Katz, L.S.** and E.O. Price. 1984. The effects of penile stimulation and copulatory experience on the ontogeny of reproductive behavior in Hereford bulls. American Society of Animal Science, University of Missouri, Columbia. J. Animal Science 59, Suppl. 1:146-147.
 82. Price, E.O., V.M. Smith, S.J.R. Wallach, **L.S. Katz** and M.R. Dally. 1984. The effects of male-male mounting on sexual preferences and heterosexual performance in domestic ruminants. American Society of Animal Science, University of Missouri, Columbia. J. Animal Science 59, Suppl. 1:147.
 83. **Katz, L.S.** and R.H. Foote. 1979. Sexual behavior and luteinizing hormone (LH) levels in steroid treated ovariectomized dairy heifers. American Society of Animal Science, University of Arizona, Tucson.

BOOK REVIEWS

1. **Katz, L.S.** 1997. Book Review: An Introduction to Behavioral Endocrinology. Applied Animal Behaviour Science 52:195-196.
2. **Katz, L.S.** 1993. "How to attack animal agriculture with a pinch of fact and a pound of hyperbole". Book Review: Animal Liberation. CFAAR Newsletter 5:30-31.
3. **Katz, L.S.** 1986. Book Review: Ethology of Farm Animals. A Comprehensive Study of the Behavioural Features of the Common Farm Animals. J. American Veterinary Medical Association 188:1177.

INVITED SEMINARS

1. "Animal Domestication". Keynote Address. Pet Care School. Rutgers Office of Continuing Professional Education. New Brunswick, NJ Oct 2018.
2. "Sources of Variation in Male Reproductive Behavior: Why Some Males are Studs and Some Males are Duds". Department of Biomedical Sciences, Colorado State University, Fort Collins, Dec 2006.
3. "Fighting for objectivity and balance in advancing animal well-being". Diverse Voices in Agriculture: a series of educational seminars. Jamie L. Whitten Administrative Building for the US Department of Agriculture, Washington, D.C. Apr 2005
4. "Reproductive Control in Deer Population Regulation". Bucks County Conservation District in cooperation with the Bucks County Planning Commission, Bureau of Forestry, Heritage Conservancy, Natural Resources Conservation Service, and Pennsylvania State University, Deer & Forest Health, Point Pleasant, PA. Mar 2001.
5. "Animal Use in Academia and Agricultural Research". Inspecting the Process: A Collaborative Approach to Improving Animal Care. A Model Education Symposium jointly sponsored by NJ Association for Biomedical Research, PA Society for Biomedical Research, and USDA Animal Care. Plainsboro, NJ. Dec 1999.
6. "New Jersey and Deer: Perfect Together". Wyeth-Ayerst Research, Princeton, NJ, Sep 1999.
7. "Safety and Effectiveness of Wildlife Repellents". New Jersey Annual Vegetable Meeting, Atlantic City, Jan 1999.
8. "New Jersey and Deer: Perfect Together". Rutgers Graduate Program in Ecology, Nov, 1998.
9. "GnRH immunocontraception in white-tailed deer". Morris County Parks Commission, Wildlife Forum, Morristown, NJ, Feb 1998.
10. "Population regulation and carrying capacity". Morris County Parks Commission, Wildlife Forum, Morristown, NJ, Feb 1997.
11. "Contraception as a tool in wildlife management: prospects and impediments." Seeking Solutions to Wildlife Damage. A Workshop/Seminar, Clinton, NJ, Mar 1996.
12. "Deer Management Research in New Jersey - Overview of the Status of Immunocontraception Research". Deer Damage Management for Landscape Professionals, Frelinghuysen Arboretum, Morristown, NJ, Oct 1995
13. "Contraception as a Management Option." Deer in the Urban Forest: Impacts and Options, Center for Urban Forestry at the Morris Arboretum of the University of Pennsylvania, Apr 1995.
14. "Alternative Strategies to Controlling Populations of White-Tailed Deer" Northeast Regional Meeting, American Association of Botanical Gardens and Arboreta, Frelinghuysen Arboretum, Morristown, NJ, Sep 1994.
15. "Fertility control as a means of reducing deer populations." Department of Natural Resource Management and Applied Ecology, Rutgers University, 1994.
16. "Fertility Control of White-tailed Deer" Princeton Deer Committee, Princeton, NJ, Oct 1993.
17. "Prolactin, Photoperiod and Sexual Behavior in Sheep and Goats" Department of Animal Science, Pennsylvania State University, State College, PA, Oct 1993.

INVITED SEMINARS (continued)

18. "Fertility Control of White-tailed Deer" NJ Wildlife Management Committee, Bernardsville, NJ, Feb 1993.
19. "Fertility Control of White-tailed Deer" Department of Biological Sciences, East Stroudsburg University, East Stroudsburg, PA, May 1992.
20. "Fertility Control of White-tailed Deer" New Jersey Agricultural Experiment Station Extension Program on Animal Damage Control, New Brunswick, NJ, April 1992.
21. "Fertility Control of White-tailed Deer" New Jersey Wildlife Society, Assunpink Wildlife Management Area, NJ, Jan 1992.
22. "Liver Mediated Regulation of Reproduction". The Graduate Program in Physiology and Neurobiology Seminar, Rutgers University, March 1991.
23. Hypothalamic aromatase activity and neuroendocrine function in the prepubertal bull. Graduate Group in Endocrinology, University of California, Berkeley, 1987.
24. Development of sexual behavior in the bull. Graduate Group in Endocrinology, University of California, Berkeley, 1986.
25. Endocrine influences on reproductive behavior in male and female domestic cattle. Western Psychological Association, California State University, Sacramento, April 1982.
26. Current research on endocrine and olfactory influences on reproductive behavior in cattle. West Coast Conference on Sexual Behavior, Stanford University, Palo Alto, California, Nov 1981.

TEACHING:

Undergraduate Courses

1. Companion Animal Science, 11:067:250 (3 cr) 75 students/yr. Responsibility: 100%, Spring 2008; course creator.
2. Laboratory Animal Sciences: Management and Techniques, 11:067:275 (3 cr) 40 students/yr. One semester annually. Responsibility: 100%, 1990-2006; 14%, 2007-present.
3. Animal Science, 11:067:142 (3 cr) 125 students/yr. One semester annually. Responsibility: Course coordinator, 1992-2008; 14%, 1992-present.
4. General Biology, 01:119:102 (4 cr) 800 students/yr. One semester annually. Responsibility: 20%, 1992-2008.
5. Animal Reproduction, 11:067:327 (3 cr) 130 students/yr. One semester annually. Responsibility 25%, 1990-present; 90%, 2001 and 2002.
6. Livestock Production and Management I and II and labs, 11:067: 335 (3 cr) 18 students/yr. One semesters annually. Responsibility 7%, 1997-present.
7. Research in Animal Sciences/Animal Science Problems, 11:067:493,494 (1-3 cr) 40 students/yr. Two semesters annually. Responsibility 100%, 1989-present.
8. Laboratory Animal Practicum, 11:067:205 (2 cr) 12 students/yr. Two semesters and summer sessions annually. Responsibility: 100%, 1992-2008.
9. The Use of Animals in Contemporary American Society, 11:015:275 (1 cr) 20 students/yr. One semester annually. Responsibility: 100%, 1991 to 1996.

George H. Cook Scholars

1. Alison Lawlor 2019 "Long-term Social Affiliation Among Female Goats Raised in Same Age Groups"
2. Kristen Finger 2019 "Discriminating Sexual Motivation from Sexual Performance in Male Goats: Approach Rate to Estrous Does"
3. Jessica Chmiel 2018 "The effect of co-twin gender on sexual behavior in goat does"
4. Nicole Meddaugh 2018 "The role of chemical communication in social organization in the male goat: Social dominance"
5. Taryn Mooney 2018 "The role of chemical communication in social organization in the male goat: Self-enurination"
6. Jamie Sutherland 2018 "Effects of proximity to females on integument damage caused by self-enurination in the male goat"
7. Victoria Simpson 2017 "Further studies of gender of co-twin on sexual behavior expression in female goats"
8. Caitlin Kober 2016 "Effects of gender of co-twin on sexual behavior expression in female goats"
9. Emily Convery 2016 "Effects of age versus sexual experience on the expression of sexual behavior in male goats"
10. Lena Sena 2015 "Differential effects of sex steroids on sexual behavior in castrated male goats"

George H. Cook Scholars (continued)

11. Jennifer Rose 2015 "The effect of music and white noise on approach behavior and movement behavior in dairy heifers"
12. Jamie So 2014 "Development of a protocol for inducing estrus in goats with an orally administered progestin"
13. Meg Radford 2012 "Music's effect on behavior of goats"
14. Cynthia Xue 2012 "Symmetry and female mate choice of the domesticated goat (*Capra hircus*)"
15. Loren Riccioni 2011 "Olfactory cues: do female goats prefer the scent of males with high testosterone concentrations?"
16. Mary Koepfinger 2011 "Testosterone dose response and female mate choice: male courtship"
17. Jade Guterl 2011 "Proximity of females: effect on courtship behavior, testosterone concentrations, and body weight in male goats"
18. Arthur Obenrader 2010 "Multisensory assessment of temperament in goats"
19. Rita Hemmings 2010 "The effects of gentling on halter-breaking in heifers"
20. Anthony Colandreo 2009 "Sexual motivation in male goats"
21. Karnik Patel 2009 "Individual variability in fear responses in goats"
22. Lisa Marie Pedro 2009 "Conception rates from automated estrous detection in dairy heifers"
23. Lisa Fiorenza 2009 "Environmental enrichment for captive wild cats"
24. Brian Calabro 2008 "Fear and anxiety in goats"
25. Max Rozenbaum 2008 "The efficacy of commercial repellents to protect landscape vegetation from browsing by deer"
26. Matthew Raleigh 2008 "Fertility in dairy heifers bred in either a timed insemination protocol or by visual observation of estrus"
27. Amy Schkeeper 2007 "Behavioral factors affecting intra-vaginal impedance in estrous goats"
28. Laura Barash 2007 "The effects of non-aromatizable androgens on sexual behavior in the female goat"
29. Elizabeth Lauder 2007 "Environmental enrichment and behavior in captive white-tailed deer"
30. Ryan Creagh 2006 "Sexual receptivity in the male goat"
31. Jennifer Song 2005 "Season and progesterone affects on tail wagging in ovariectomized goats treated with estradiol"
32. Matthew Sherger 2004 "Endocrine control of tail wagging in goats"
33. Andrea Sweeney 2004 "Assessment of sexual motivation in male goats as a predictive tool for sexual performance"
34. Kristin Onesios 2003 "Time-place discrimination learning in goats"
35. Vanessa Grunkemeyer 2003 "Spatial learning in goats"
36. Aaron Corona 2003 "Environmental enrichment and learning in rats"
37. Melissa Rotella 2002 "Social dominance and discrimination learning in the goat"
38. Tara Purcell 2002 "Spatial learning ability in French-Alpine goats"
39. Jessica J. Schulze 2001 "Estrogen's effects on discrimination learning in female goats"

George H. Cook Scholars (continued)

40. Glenn R. Behan 1999 "Prior expectations versus actual selection in the adoption of dogs from animal shelters"
41. Robert Mankowski 1999 "Cues from recently mated rams increase sexual performance in conspecific males"
42. Brian Arnold 1999 "Timing of oxytocin administration and ram sexual performance"
43. Kimberley Hershhorn 1999 "Threshold dose of estradiol for inducing sexual proceptivity in ovariectomized French-Alpine goats"
44. Laurie Pearlman 1998 "The effect of physical and behavioral characteristics on the selection of canine companions"
45. Mae Palacios 1997 "The influence of male goats on proceptivity in female goats"
46. Shannon Johnson 1997 "Non-invasive indicators of puberty in rams"
47. Erica Swanke 1996 "Effects of testosterone on development of sexual behavior in the castrated male goat"
48. Rebecca Fahs 1996 "Effects of dihydrotestosterone on development of sexual behavior in the castrated male goat"
49. Stacey J. Sukoff 1996 "Effects of tamoxifen, an estradiol antagonist, on the sexual behavior of testosterone-treated castrated goats"
50. Sara A. Quinn 1995 "The sexual behavior of ovariectomized estradiol-treated goats kept in constant long and short photoperiods"
51. Dolores Costantino 1995 "Sexual behavior of male goats immunized against prolactin"
52. Reena Shah 1994 "Seasonal effects of sulpiride treatment on serum prolactin levels and male sexual behavior in the goat"
53. Nirit J. Rosenberg 1994 "The effects of bromocriptine-induced hypoprolactinemia on the mating behavior of male goats during the fall breeding season"
54. Peggy A. Hauck 1994 "The role of prolactin in the regulation of reproductive behavior in the ram (*Ovis aries*)"
55. Bonnie F. Davidson 1994 "The effect of growth hormone on the rat estrous cycle and ovarian follicles"
56. Scott Willens 1993 "Effect of sexual behavior on serum prolactin levels in rams"
57. Heather Hirst 1992 "The effect of stressors on the relationship between estrous behavior and serum concentrations of cortisol, luteinizing hormone, and estradiol"

Mabel Smith Douglass Scholars

1. Cassandra Nunez 1994. "The seasonal effects of estradiol treatment on serum prolactin concentrations and sexual behavior in the female goat (*Capra hircus*)"

Independent Research in Animal Science

Between spring 1995 and spring 2019: More than 950 students

Cooperative Education Program

1989 - 2007: sponsored 131 different students in 158 cooperative education experiences

Graduate Courses

1. Physiology of Reproduction, 16:761:545 (3 cr) 8 students/yr. One semester biannually. Responsibility: 33%.
2. Current Principles in Animal Science, 16:067:501 (3 cr) 15 students/yr. One semester biannually. Responsibility: 7%.
3. Topics in Animal Behavior, 16:067:615 (2 cr) 12 students/yr. One semester biannually. Responsibility: 50%.
4. Recent Advances in Animal Reproduction, 16:067:612 (2 cr) 8 students/yr. One semester biannually. Responsibility: 33%.
5. Mammalian Physiology, 16:761:502 (3 cr) 15 students/yr. One semester annually. Responsibility: 16%.

Graduate Students

Supervisor/ Committee Chair

1. William Fritz, Ph.D., Endocrinology and Animal Bioscience, 2017
“Self-enurination in the domesticated male goat (*Capra hircus*)”
2. Kristy Longpre, Ph.D., Endocrinology and Animal Bioscience, 2011
“Female mate choice in the domesticated goat (*Capra hircus*): current understandings and implications.”
3. Andrea Sweeney Haulenbeek, Ph.D., Endocrinology and Animal Bioscience, 2009
“Partner preference and sexual performance in male goats (*Capra hircus*)”
4. Mary Margiasso, M.S., Animal Science, 2006
“Use of a Y-maze to assess partner preference in female goats”
5. Michele M. Marino-Nichols, M.S., Animal Science, 2006
“An optimal dose of testosterone for activating sexual behaviors in ovariectomized goats during the breeding and nonbreeding seasons”
6. Meagan Shearer, M.S., Animal Science, 2004
“Female-female mounting among goats stimulates sexual performance in males”
7. Jill A. Lindia, M.S., Animal Science, 2004
“The role of estrogen and androgen mediated pathways in female French-Alpine goat sexual behavior”
8. Kimberly A. McMunn, M.S., Animal Science, 2001
“Testosterone facilitation of sexual behavior in castrated, sexually inexperienced goats”
9. Daniela Maina, Ph.D., Animal Science, 1999
“Male sheep sexual performance: Investigations of the effect of social cue transmission and the search for a behavioral role for systemic oxytocin”
10. Heather Billings, Ph.D., Animal Science, 1998
“Effects of season and photoperiod on progesterone- and estradiol-induced sexual behavior in goats”
11. Debra H. Kaplan, M.S., Animal Science, 1994
“Constant photoperiod affects behavioral and endocrine responses of ovariectomized goats to estradiol treatment”

Graduate Students

Supervisor/ Committee Chair *(continued)*

12. E. Gloria C. Regisford, Ph.D., Animal Science, 1994
“Prolactin and the regulation of reproductive function in the ram (*Ovis aries*)”

Graduate Students

Committee Member

1. Tiffany Polanco, Ph.D., Endocrinology and Animal Bioscience, 2011
2. Amy Frankshun, Ph.D., Endocrinology and Animal Bioscience, 2011
3. Joseph Chen, Ph.D., Endocrinology and Animal Bioscience, 2010
4. Karen Santora, M.S., Animal Science, 2005
5. Darcy Medica, Ph.D., Animal Science, 2001
6. Laura Branagan, M.S., Ecology, 2001
7. Jeffrey Klein, Ph.D., Animal Science, 1999
8. Linda Seitz, Ph.D., Ecology, 1997
9. Steven Leili, Ph.D., Animal Science, 1997
10. Jeffrey Klein, M.S. Animal Science 1996
11. Robert W. Gerwein, Ph.D., Ecology 1995
12. Janet L. Wang-Lee, M.S., Ecology, 1995
13. Wei-Lun Hung, M.S., Animal Science, 1995
14. Ann Contijoch, Ph.D., Animal Science, 1995
15. Thushara Chandrasiri, M.S., Animal Science, 1994
16. Susan E. Becker, M.S., Animal Science, 1992
17. Clinton Burgher, M.S., Animal Science, 1992
18. John M. Levorse, M.S., Animal Science, 1992

EXTENSION/OUTREACH:

Director of Rutgers Cooperative Extension: July 1, 2008 – June 30, 2018

The chief administrator of Rutgers Cooperative Extension has the title of Director of Extension, with the commensurate authority to operate and coordinate the programs of Rutgers Cooperative Extension, a unit of the New Jersey Agricultural Experiment Station, in the areas of agriculture, resource management, family and community health sciences, 4-H youth development, and marine studies, consistent with School, University, and USDA policies. The Director of Rutgers Cooperative Extension is responsible to the Administrator in USDA for implementation of USDA regulations and policies. The Director of Rutgers Cooperative Extension is responsible to the Director of the New Jersey Agricultural Experiment Station for the implementation of Cooperative Extension and integration with Cooperative Research to ensure that the mission of NJAES is achieved to meet the needs of New Jersey residents. The Director of Extension serves on the Executive Leadership Team of the Executive Dean of the School of Environmental and Biological Sciences.

Prior to role as Director:

Rutgers Cooperative Extension Fact Sheets

1. Grande, J., L.S. Katz, and G. Slifer. "High-Tensile Woven Wire Fences for Preventing Wildlife Damage." RCE Fact Sheet # 889
2. Grande, J., L.S. Katz, and G. Slifer. "Portable Electric Fencing for Preventing Wildlife Damage." RCE Fact Sheet # 888
3. Wohlt, J and L.S. Katz. "Dehorning of Dairy Animals: Necessity, Methods and Implications." RCE Fact Sheet # 769
4. Katz, L.S. "Animal Rights versus Animal Welfare." RCE Fact Sheet # 753

In Service Programs and Workshops Organized

1. Deer Damage Control. Seeking Solutions; A Seminar. Feb 1997
2. Canada Goose Damage. Practical, Effective Solutions. Nov 1996
3. NJ Horse Council Seminar--Animal Rights versus Animal Welfare, Mar 1994
4. In-Service Training-- Animal Welfare, 4-H fairs, and Crisis-Communication, Apr 1994
5. Animal Damage Control - Alternative Methods for Deer Population Control, Apr 1992

Outreach

1. "Reproductive Behavior in Male Goats" 4-H Goat Extravaganza, Hunterdon County Cooperative Extension, Flemington, Jan 2011
2. "New Jersey and Deer: Perfect Together; Reproductive control in wildlife: Is it a viable teaching tool?" NJ Science Teachers Convention, Somerset, NJ Oct 2007
3. "Ecoterrorism and Animal Rights". Philadelphia Society for the Promotion of Agriculture, Philadelphia, PA, Nov 2006
4. "New Jersey and Deer: Perfect Together; Reproductive control in wildlife: Is it a viable teaching tool?" NJ Science Teachers Convention, Somerset, NJ Oct 2006
5. "Reproductive Control in Deer Population Regulation". Crestwood Village Homeowners Association, Whiting, NJ, Sep 2006

Outreach (continued)

6. Suburban deer management. Hillsborough, NJ Township Committee, Hillsborough, NJ

- Aug 2004
7. "Animal rights versus animal welfare" National Animal Interest Alliance Trust, Edison, NJ, Jun 2004
 8. "Biology and Behavior of White-tailed Deer. Hunterdon County Board of Agriculture, Jan 3, 2003
 9. "Reproductive Control in Deer Population Regulation". Princeton Township Community-based Deer Management Program, Princeton, NJ Jul 24, 2002
 10. "Reproductive Control in Deer Population Regulation". Seminar No. 48 - Deer Research & Management in New Jersey, State House, Trenton, NJ. Mar 2001
 11. "Reproductive Control in Deer Population Regulation". Bucks County Conservation District in cooperation with the Bucks County Planning Commission, Bureau of Forestry, Heritage Conservancy, Natural Resources Conservation Service, and Pennsylvania State University, Deer & Forest Health, Point Pleasant, PA Mar 2001
 12. Deer contraception status. Somerset County Board of Chosen Freeholders, Nov 2000
 13. New Jersey and White-tailed Deer. Celebrate Agriculture: preserving our resources, protecting our future. The Ervin Waters Farm, Mansfield, NJ, June 2000
 14. New Jersey Deer. Rotary Club of Pompton Lakes, Apr 2000
 15. New Jersey and Deer Perfect Together. Watchung Boro, May 2000
 16. Deer damage to agriculture. Hunterdon County Board of Agriculture, Dec 1998
 17. Wildlife Damage Control. Growers' Advisory Meeting, Snyder Research Farm, Feb 1998
 18. White-tailed deer in New Jersey, Fox 5 News, Feb 1998
 19. Methods for controlling white-tailed deer populations. The Smoke Rise Club, Kinnelon, NJ, Jun 1997
 20. Methods for controlling white-tailed deer populations. Princeton Agriculture Association, Hopewell, NJ, Jun 1997
 21. Methods for controlling white-tailed deer populations. Kiwanis Club, North Brunswick, NJ, Apr 1997
 22. Recent Activities and Issues in Animal Rights. NJ Laboratory Animal Veterinarians, Rutgers University, Apr 1997
 23. Animals in Research and Education, Rutgers Biotechnology Club, Oct 1996
 24. Controlling white-tailed deer populations. Bridgewater Deer Committee, Jul 1996
 25. Board Meeting, American Animal Welfare Foundation, Jun 1995
 26. Methods for controlling white-tailed deer populations. Union County Parks and Recreation Advisory Board, Jun 1995
 27. Animals in Research and Education - Dwight-Englewood High School, Englewood, NJ, Mar, Apr, and May 1995
 28. North Jersey Ornamental Horticulture Conference - Landscape Day- Discussed methods for controlling deer in the landscape, Feb 1995
 29. Rutgers Cooperative Extension-Master Gardener Field Day - Discussed deer management and control methods, Oct 1994
 30. New Jersey Science Convention - Dissecting the Debate - Animals in Instruction, Oct 1994
 31. Methods for controlling white-tailed deer populations. Guardians of Woods and Wildlife, Scotch Plains, NJ Aug 1994

Outreach (continued)

32. Board Meeting, American Animal Welfare Foundation, Jun 1994
33. Sponsored information table at Ag-Field Day. Distributed literature on animal care and animal welfare, Apr 1994

34. 4-H Animal Science Committee - Planned In-Service training, Jan 1994
35. 4-H Animal Science Committee - Planned In-Service training, Jan 1994
36. Trinity Presbyterian Church - spoke about animal rights, Jan 1994
37. NJPIRG - spoke to student leaders about the need for animal research and animal agriculture, Oct 1993
38. American Cyanamid - addressed employees about public speaking on the issue of animals in research and testing, Sep 1993
39. "Use of Animals in Biomedical Research". East Brunswick High School, Dec 1993
40. Board Meeting, American Animal Welfare Foundation, Sep 1993
41. Hoechst Pharmaceuticals - spoke to administrators and employees about animal rights and animal welfare, May 1993.
42. Sponsored information table at Ag-Field Day. Distributed literature on animal care and animal welfare, Apr 1993
43. New Jersey Association for Biomedical Research. Introduced to Board of Directors as a contributor to NJABR Speaker's Bureau, Mar 1993
44. Rutgers Office of Research and Sponsored Projects--Media training. Trained administrators in the art of mass media communication, Mar 1993
45. "Use of Animals in Biomedical Research". Raritan High School, Feb 1993;
46. Raritan High School, Hazlet, NJ. Spoke to honors biology students about animal welfare, animal rights, animal agriculture and animal research, Feb 1993
47. Inspection of Hackettstown Livestock Auction for preparation of farm animal welfare guidelines, Jan 1993
48. Meeting at HSUS to plan Rutgers and HSUS joint sponsorship of training program for Animal Control Officers, Jan 1993
49. Debate: Animals in Research. Rutgers, The State University, Dec 1992
50. Televised Debate: Animals in Research. TKR Cable Television, NJ, Oct 1992
51. Board Meeting, American Animal Welfare Foundation, Sep 1992
52. Sponsored information table at Ag-Field Day. Distributed literature on animal care and animal welfare, Apr 1992
53. "Animal Research, Animal Agriculture and the Animal Rights Movement." Ethicon, Inc., Somerville, NJ, April 1992
54. "Animal Rights vs. Animal Research." Editorial Board, New Jersey Law Journal, Princeton, NJ, Jan 1992
55. "Animal Welfare and Animal Rights." National Teen Summit Workshop, Princeton Day School, Nov 1991
56. "Academic Careers in the Animal Sciences." 4-H Action Days Workshop, Rutgers University, Jun 1991
57. "Use of Animals in Biomedical Research". Hopewell Valley Central High School, May 1991;
58. "Use of Animals in Biomedical Research". Rutherford High School, Mar 1991;
59. Sponsored information table at Ag-Field Day. Distributed literature on animal care and animal welfare, Apr 1991

Outreach (continued)

60. "Animal Use in Biomedical Research". North Warren Regional High School, Apr 1991
61. Animal Research. WRSU Radio, Rutgers University, Mar 1991
62. Animal research: It would be immoral to stop. American Fur Industry, Philadelphia, PA, Feb 1991
63. Impact of animal rights on farming. Salem County Board of Agriculture, Nov 1990

64. "Speaking from experience." NJ Association for Biomedical Research Speakers' Training, CIBA-GEIGY, Summit, NJ, Jan 1991
65. Animal research: It would be immoral to stop. American Fur Industry, San Antonio, TX, Oct 1990;
66. Farm Animal Research. NJ branch American Association of Laboratory Animal Science. Whippany, NJ, Oct 1990
67. The Animal Rights Movement. CIBA-GEIGY First US Animal Welfare Workshop. Summit, NJ, Aug 1990
68. Sponsored information table at Ag-Field Day. Distributed literature on animal care and animal welfare, Apr 1990 to 1994
69. Animal research: It would be immoral to stop. American Fur Industry, Atlanta, GA, Feb 1990
70. Organizing a local program promoting the use of animals in research and teaching: Pro-active efforts on and off campus. Society for the Study of Reproduction, University of Missouri, Columbia, 1989
71. Animal research: It would be immoral to stop. American Fur Industry, Pittsburgh, Oct 1989

Educational Resources Developed with the American Animal Welfare Foundation

1. "Animals Around Us" A computer program for pre-literate children, demonstrating the relationship between food, clothing and medicines and the animals from which they are derived.
2. "People, Animals and the Environment" A simulation game for high school students designed to teach students about the relationship between humans and animals. The role-playing environment is modeled after a congressional hearing.

SERVICE:

National/Professional Society

Editorial Boards:

1993 to present Applied Animal Behaviour Science
1997 to 2000 *Newsletter Editor* - Society for the Study of Reproduction
1993 to 1996 *Section Editor* - Journal of Animal Science, Environment and Behavior

Offices Held:

2013 to present Member, Budget & Legislative Committee, APLU
2010-2011 Chair, Northeast Extension Directors' Association
2009-2010 Secretary, Northeast Extension Directors' Association
2004-2008 President, Board of Directors, National Animal Interest Alliance
1991 to 2004 Vice-President, Board of Directors, American Animal Welfare Foundation

2000 to 2002 Member, Membership Committee, Society for Behavioral Neuroendocrinology

2000, 2001 Panel member, USDA/CSREES/NRICGP, Animal Health and Well-Being

1996 to 2000 Member, Education Committee, Society for the Study of Reproduction
1995-1997 Member, Sheep and Goat Subcommittee, Consortium for Developing A Guide for the Care and Use of Agricultural Animals in Agricultural Research and Teaching

1994 Member, Program Committee, Society for the Study of Reproduction
1991 to 1994 Chair, Animal Care Committee, Society for the Study of Reproduction
1989 to present Member, USDA NC 1029 (formerly NCR 131) Group in Animal Care and Behavior

1988 to 1991 Co-founder and member Coalition for Animals and Animal Research
1985 to present Ad hoc reviewer for competitive research grants, USDA/CSREES /NRICGP

State

1991 to 2009 Member, Institutional Animal Care and Use Committee, Fort Dodge Company, Agricultural Research Division, Princeton, NJ

1995 to 2007 Advisor to community-based deer committees: Essex, Morris, Somerset, and Union Counties; Bernards, Bridgewater Hillsborough, and Princeton Townships

University

2014 to 2016 Member, Academic Unit Organization Committee
2012 to 2014 Member, Lifelong Learning Education Committee
2011 to 2013 Member, Chronic Disease Initiative Committee
2011 "Reflections on an academic career", presentation to the 26th Annual Luncheon of the Colonel Henry Rutgers Society

2005-2006 Fellow, the Center for the Advancement of Teaching Instructional Technology Teaching Fellows Program

University (continued)

2004 to 2005	Member, Instructional and Research Computing Advisory Group
1997 to 2002	Chair, Animal Care and Facilities Committee
1997 to 2002	Member, Research Advisory Board
1995 to present	Mentor, Project SUPER, Douglass Project for Rutgers Women in Math, Science, and Engineering
1991 to 1999	Member, Institutional Review Board for the Care and Use of Animals in Research and Teaching
1995 and 1996	Mentor, Rutgers University - Minority Apprenticeship Pre-college Program
1991	Speaker, Rutgers Speakers Bureau Service

School/NJAES

1991 to present	Member, Agricultural Animal Care Committee, Cook College
1990 to 2013	Interviewer, Cook General Honors Program, Rutgers University
2006 to 2009	Member, Cooperative Education Advisory Committee
1996 to 2008	Member, Planning Committee, Snyder Research and Outreach Farm
2005 to 2007	Member, G.H. Cook General Honors Committee
2001 to 2007	Member, Curriculum and Educational Program Committee
Jan 2006	Academic Presentation: Cook College Leadership Development Program
2000 to 2001	Member, Cook College Council
2000 to 2001	Member, Judicial Panel of the Cook College Faculty Standing Committee
1999 to 2000	Member, Judicial Panel of the Cook College Faculty Standing Committee
1997 to 2000	Member, College Planning Committee
1999	Break-out Session Leader, Academic and Student Affairs Strategic Planning
1998	Chair, Hutcheson Memorial Forest Task Force
1997 to 1998	Member, Judicial Panel of the Cook College Faculty Standing Committee
1989 to 1997	Member, George H. Cook Honors Committee
1997	Faculty Advisor, Cook College Class of 1997
1996	Chair, Research Awards Committee, "Spotlight on Cook College/NJAES"
1995 to 1996	Member, Cook College Council
1995 to 1996	Member, Committee for the evaluation of the quality of student life and the building of a diverse community
1994 to present	Associate Director, Center for Wildlife Damage Control
1994 to 1996	Member, Cook/NJAES Biodiversity Initiative
1994	Co-chair, Extension subcommittee, Committee on Wildlife, Fish and Game Management and Conservation
1994	Member, Agenda subcommittee, Committee on Wildlife, Fish and Game Management and Conservation
1994	Chair, Animal Damage Control subcommittee, Committee on Wildlife, Fish and Game Management and Conservation

School/NJAES (continued)

1994	Member, Committee on Wildlife, Fish and Game Management and Conservation
1994	Chair, Animal Damage Control Center Planning Committee
1991 to 1994	Faculty Advisor, Minorities in Agriculture, Natural Resources and Related Sciences (MANRRS), Cook College, Rutgers University
1990	Member, NJAES Animal Science Working Group on Extension/Research

Department of Animal Sciences

2002 to 2008	Department Chair
2001 to 2002	Acting Department Chair
2001	Associate Department Chair
2000-2001	Ad hoc Chair, Dipak Sarkar PII Promotion Committee
2000	Acting Department Chair, as needed
1999 to 2001	Member, Chairperson's Executive Planning Committee
1997 to 1999	Chair, Search Committee, Professor and Department Chairperson
1996	Chair, Faculty retreat to evaluate the undergraduate curriculum
1995 to 1998	Member, Kellogg Foundation Food Science Professions Education Initiative
1995 to 1996	Chair, Department Seminar Committee
1993 to 1996	Chair, Admissions Committee, Graduate Program in Animal Sciences
1989 to 2008	Coordinator, Laboratory Animal Science Option
1990 to 1991	Chair, Large Animal Research Facility Planning Committee