

CURRICULUM VITAE of Steven A. Zinn

CURRENT POSITION: Professor, Department of Animal Science

ADDRESS: Department of Animal Science  
Unit Number 4040, room 108 George White  
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The University of Connecticut  
Storrs, CT 06269-4040  
(860) 486-0861 (office)  
[steven.zinn@uconn.edu](mailto:steven.zinn@uconn.edu)

EDUCATION:

1989-1990 Postdoctoral Research Associate, Neurobiology Group, Worcester Foundation for Experimental Biology, Shrewsbury, MA.

Ph.D. 1989 Animal Science, Michigan State University, East Lansing, MI.

M.S. 1984 Animal Science, Michigan State University, East Lansing, MI.

B.S. 1978 Animal Science, Cornell University, Ithaca, NY.

RESEARCH INTERESTS:

Physiological mechanisms involved in efficiency of animal production and developmental expression of metabolic hormones.

RESEARCH EXPERIENCE:

Professor, Department of Animal Science; joint appointments with Departments of Physiology and Neurobiology and Molecular and Cellular Biology, University of Connecticut, Storrs, CT. 2005-present.

Associate Professor, Department of Animal Science, University of Connecticut, Storrs, CT. 1996-2005.

Assistant Professor, Department of Animal Science, University of Connecticut, Storrs, CT. 1990-1996.

Postdoctoral Research Associate, Neurobiology Group, Worcester Foundation for Experimental Biology, Shrewsbury, MA. 1989-1990.

Graduate Research Assistant, Department of Animal Science, Michigan State University, East Lansing, MI. 1980-1989.

Research Support Specialist, Department of Animal Science, Teaching and Research Center, Dairy Unit, Cornell University, Ithaca, NY. 1978-1980.

## ADMINISTRATIVE EXPERIENCE:

Head, Department of Animal Science, University of Connecticut, 2012-2021

Interim Head, Department of Animal Science, University of Connecticut, 2011-2012

Director of Office of National Scholarships, University of Connecticut, 2004

Editor-in-Chief *Journal of Animal Science*, 2008-2013

Editor-in-Chief *Animal Frontiers: The review magazine of animal agriculture*, 2011-2014

## TEACHING EXPERIENCE:

Department of Animal Science, University of Connecticut.

2014-present: ANSC 3316 “Comparative Endocrinology in Farm Animals”. This course focuses on endocrine systems and endocrine function in farm animals with emphasis on hormones involved in metabolism, growth, lactation, feed intake and digestion in cattle, pigs, horses and poultry.

2014-present: ANSC 3317W “Scientific Writing in Comparative Endocrinology in Farm Animals”. This course is a writing-intensive class integrated with course content in ANSC 3316 with additional emphasis on critical review of the scientific.

1992-2009, 2019-present: ANSC 3194/SAAS 294 (formally ANSC 295/SAAS 094) "Undergraduate Seminar" This careers course is designed for sophomores and juniors to prepare for interviews, write resumes and cover letters, to learn about job opportunities and to make oral presentations on a topic related to the animal industry.

2008-present UNIV (formally INTD) 1810 “First Year Experience: Animal Science Learning Community”. This course is designed to help Animal Science students with the transition from high school to Animal Science at UConn. Topics include study skills, library, student counseling, drugs and alcohol, career potentials in the Animal Sciences with opportunities for students to discuss their experiences at the University

1999-2007: INTD 180 “First Year Experience: Study Skills”. This course is designed to help students with the transition from high school to the University of Connecticut. Topics include study skills, library, student counseling, drugs and alcohol, career potentials with opportunities for students to discuss their experiences at the University.

1991-2013: ANSC 3313/5316 (formerly ANSC222/344) "Growth Biology and Metabolism in Domestic Animals". This course discusses the development and metabolism of tissues important to the Animal Sciences with an emphasis on the role(s) of the endocrine system, growth factors, nutrition and the environment in these processes.

2003-2013: ANSC 3314W (formerly 223W) “Scientific Writing in Growth Biology and Metabolism in Domestic Animals”. This course is a writing-intensive class integrated with course content in ANSC 3313 with additional emphasis on critical review of the literature.

2002: ANSC 300: "Endocrinology" This course is designed for graduate students in Animal and Nutritional Sciences. It focuses on general endocrinology with an emphasis on metabolic hormone synthesis, signal transduction and cellular action.

2001: ANSC 390 "Graduate Presentation Skills" This course is designed for graduate students to prepare for research-based oral presentations.

1992-1997: ANSC 397 "Graduate Student Seminar". This course is designed for graduate students to present data in a formal setting.

1990-present: Invited lectures: SAAS 004 (Anatomy and Physiology), ANSC 120/1001 (Intro to Animal Science), ANSC/NUSC 160/1645 (Science of Food), ANSC 216/1111 (Nutrition), ANSC 217/3121 (Animal Breeding and Genetics), ANSC 219/3122 (Reproduction), ANSC 224 (Food Safety), ANSC 3194 (Seminar), ANSC 275/3261 (Dairy Cattle Management), ANSC 273/3273 (Livestock Management), ANSC 229/3323 (Embryology and Biotechnology), ANSC 3313 (Growth), ANSC 333/4311 (Advanced Nutrition), BIOL 196 (Honors Biology), BIOL 295 (Intro to Undergrad Research), and PNB 421 (Comparative Endocrinology).

In addition to formal instruction, I have had over 90 different students (several have enrolled for more than one semester) enroll in independent study (ANSC 2699; formerly ANSC 299). I have had 12 honors students complete their thesis in my laboratory.

#### OUTREACH EXPERIENCE:

2013-2021: Chaired the Animal Science Industry Relations Committee. As Department Head, I met with 6 to 9 industry leaders each semester to highlight animal science programs and to discuss issues in agriculture in Connecticut.

1991-1997: Chaired and hosted the New England Animal Biotech Symposium. This annual symposium brings together scientists that have an interest in biotechnology and animal agriculture. The conference focused on molecular and cellular development of domestic species and on social and political issues that are important to animal agriculture. The 1997 symposium included a section specifically designed for field Extension Faculty to inform them of current developments in the area of biotechnology.

1993-1994: Presentations to dairy producer groups in central and western Connecticut on the biology and potential applications of bovine somatotropin.

1993: Presentation for the Connecticut Beef Cattle Management Workshop, entitled "Composition of weight gain in cattle as a function of genotype and nutrition", November 6, University of Connecticut.

1980-1989: Developed and taught portion of milking short courses for farmers in the state of Michigan dealing with milking systems and mastitis in Jackson, Muskegon, Mecosta and Clinton counties. Prepared and presented lecture on "Careers in Research" at the Annual Michigan 4-H Dairy Conference.

## RESEARCH AWARDS (direct costs):

1991: Mammary gland development and gene expression of growth factors during gestation of primiparous heifers. University of Connecticut Research Foundation, \$21,049.

1991-1993: Restriction fragment length polymorphism, milk yield and milk composition in lactating Holstein cows treated with weekly injections of recombinately derived bovine somatotropin. The Upjohn Company, \$202,400 plus 50% purchase of 14 Holstein cows (\$14,000 value), milk handling (\$65,000 value). Total value of direct costs is \$281,400.

1992: Acquisition of a preparative ultracentrifuge. University of Connecticut Research Foundation, \$35,890.

1992-1993: Growth hormone response to exogenous growth hormone-releasing factor administration in young unproven dairy sires. Eastern Artificial Insemination Cooperative, joint with G.W. Kazmer, \$10,460.

1993: Growth hormone response as an indicator of genetic merit in dairy sires. USDA Small Business Innovative Research Program, joint with G.W. Kazmer and B. Bean (Eastern AI), \$48,644.

1993-1994: Growth hormone response as an indicator of genetic merit in dairy sires. Eastern Artificial Insemination Cooperative, joint with G.W. Kazmer, \$28,795.

1993-1995: DNA identification technology for commercially important animals. Connecticut Innovations Incorporated, Yankee Ingenuity Initiative, Charles Goodyear Research and Development Program, joint with G.W. Kazmer and L. Strausbaugh, \$155,540.

1993-1995: Growth hormone response to somatostatin and growth hormone-releasing factor in dairy sires of differing genetic merit. USDA NRI Competitive Research Grants Program, joint with G.W. Kazmer, \$87,720.

1994-1997: Fourth, fifth, sixth and seventh Annual New England Animal Biotechnology Conference. University of Connecticut Research Foundation, \$12,000.

1994: Fourth Annual New England Regional Biotechnology Conference. USDA/OAB, \$3,000.

1996: The 1996 New England Regional Biotechnology Conference. USDA NRI Competitive Research Grants Program, \$3,448.

1996: Postdoctoral Training Fellowship, Organization for Economic Co-Operation and Development, \$2,680.

1996: Hormonal Control of Growth and Lactation. Bio-Enhancement Systems Corporation, \$8,500.

1997: Effect of PCVMC on growth and carcass composition in pigs, Pfizer Corporation, \$69,176.

1997-2000: Agriculture in New England: Strengthening economic, environmental and community impacts. USDA Fund for Rural America, co-PI (L.K. Lee and B.E. Bravo-Ureta, PIs), \$330,000.

1998-1999: Measure the effect of a plasmid vector containing specific DNA on growth, feed efficiency, carcass composition and circulating metabolites in pigs, Pfizer Corporation, \$68,711, plus purchase of 51 pigs (approximate cost; \$5,100) and 9 metabolism crates (approximate value; \$12,000), total value of direct cost, \$85,811.

1998-1999: Measure the effects on growth, feed conversion, body composition and circulating blood metabolites in pigs vaccinated with a novel peptide, "gilgro", Pfizer Corporation, \$32,653 plus purchase of 51 pigs (approximate cost; \$5,100), total value of direct cost, \$37,753.

1998-1999: Measure the effects on growth, feed conversion, body composition and circulating blood metabolites in cattle vaccinated with a novel peptide, "beefgro", Pfizer Corporation, \$70,034, plus purchase of 40 heifers (approximate cost; \$25,000), total value of direct cost, \$ 94,034.

2000-2001: Expression of insulin-like growth factor binding proteins in beef cattle from birth to one year. University of Connecticut Research Foundation, \$14,696.

2000-2003: Novel delivery systems of porcine somatotropin to stimulate growth rate, feed efficiency and carcass composition in growing pigs. Connecticut Innovations, Inc., \$175,393 plus \$35,000 cost sharing from Drug Smart, Inc., total value of direct cost \$210,393.

2000-2003: Effects of zinc on nuclear actions of thyroid hormone. USDA NRI Competitive Research Grants Program, joint with Hedley Freake, direct cost, \$109,323.

2002: Capillary Electrophoresis to enable zinc speciation for studies of zinc homeostasis. USDA-NRI Competitive Research Grants Program (equipment program), joint with R. G. Michel, H. Freake, C.V. Kumar and C. Bruchner, direct cost, \$26, 472.

2004-2005: Physiological and genetic factors contributing to differences between two genetic lines of IGF-I divergent cattle. University of Connecticut Research Foundation, \$25,102.

2007-2009: Using the Somatotropic Axis as a model to predict nutritional status in free ranging Steller sea lions. University of Connecticut Research Foundation. \$12, 953.

2008: The somatotropic Axis in mule deer. Mazuri Exotic Animal Nutrition. \$8,000.

2008: Using the somatotropic axis as a model to predict nutritional status in free-ranging harbor seal pups in southern New England. The Sounds Conservancy Grants Program, QLF/Atlantic Center for the Environment. \$750.

2005-2010: STRONG-CT: Science and Technology, Reaching Out to New Generations in Connecticut. NSF, PI Hedley Freake, Co-PI Steven A Zinn, Diba Khan Bureau, Melissa Phillion, Marcia Jehnings, direct cost, \$1,999,995.

2009-2013: ASAS post-doctoral fellowship, American Society of Animal Science, \$132,500

2010-2011: Influence of maternal investment on metabolic hormones in northern elephant seals. University of Connecticut Research Foundation. \$9,800.

2013: Evaluation of the Antigenicity of Novel DNA-based Foot and Mouth Disease Virus Vaccines in Swine, Inovio Pharmaceuticals, direct cost \$19,000.

2014-2016: Effects of intrauterine growth retardation (IUGR) on fetal development in sheep. USDA-NIFA AFRI Foundational Nutrition, Growth and Lactation Program, direct cost \$110,555.

2015-2020: Effects of poor maternal nutrition on muscle progenitor cell function and metabolism. USDA-NIFA AFRI Foundational Nutrition, Growth and Lactation Program, PI Sarah Reed, Co-PI Steven Zinn, Kristen Govoni, direct cost, \$150,000.

2017-2020: The Effects of Nutrient Restriction and Re-alimentation on Offspring Liver and Muscle Growth and Metabolism. USDA-NIFA AFRI Foundational Nutrition, Growth and Lactation Program, PI Kristen Govoni, Co-PI Steven Zinn, Sarah Reed, Kim Vonnahme, \$450,000.

2019-2024 Poor maternal nutrition across generations: Roles for oxidative stress, metabolism, and inflammation. USDA-NIFA AFRI Foundational Nutrition, Growth and Lactation Program, PI Sarah Reed, Co-PI Kristen Govoni and Steven Zinn, total award, \$499,990.

2020-2021 The Growsafe System: A critical tool for analyzing environmental effects on residual feed efficiency in sheep. USDA – NIFA. PI Sarah Reed, Co-PI Kristen Govoni, Steven Zinn and Breno Fragomeni. Upgraded feeding system with assistance of the CAHNR Dean, Provost, OVPR, and Lorentzon Fund. Direct costs of grant \$34,365, total value of equipment \$200,000.

2020-2022: Generation of Hyper-immune Bovine Colostrum. Milky Way, LLC, total award \$550,000.

2021-2023 Nutritional Management Strategies for Improving Growth and Carcass Composition of Beef-Dairy Crossbred Calves SARE. PI Sarah Reed, Co-PI Kristen Govoni, Steven Zinn, Joe Emenheiser and Tara Felix. Total award, \$200,000.

2022-2026 Role of maternal nutrient restriction and betaine supplementation in offspring growth and epigenetic regulation in the liver. USDA-NIFA, PI Kristen Govoni, Co-PI Sarah Reed, Supporting PI Rachel O'Neill, Neh Mishra and Steven Zinn. Total award \$650,000.

## HONORS

2022 Spirit of the Land Grant Mission Award, CAHNR, University of Connecticut

2021 Morrison Award, American Society of Animal Science

2019 CVMA Service Award

2018 UConn AAUP Teaching Excellence Career Award

2017 Northeast Regional USDA Food and Agriculture Sciences Excellence in Teaching Award

2016 Teaching Fellow of the University of Connecticut

2016 Faculty Excellence in Undergraduate Teaching, UConn Alumni Association

2015 Fellow of the American Society of Animal Science

2014 H. Allen Tucker Lactation & Endocrinology Award, ASAS

2014 University of Connecticut Counseling Program for Intercollegiate Athletes (CPIA) Academic Advisor of the Year Award.

2011 University of Connecticut Block & Bridle Club Distinguished Guest Award

2008 Northeast ADSA/ASAS Distinguished Service Award

2003 Excellence in Research Award, CAHNR, University of Connecticut

2002 Excellence in Teaching Award, CAHNR Alumni Association, University of Connecticut

2001-2002 Outstanding First Year Experience Teaching Award, University of Connecticut  
2000-2001 Outstanding Faculty Advisor Award, University of Connecticut  
1994 Northeast ADSA/ASAS Young Scientist Award  
1989-1990 M.C. Chang Postdoctoral Fellow, Worcester Foundation.  
1988 Sigma Xi Graduate Student Award.  
1987 Merck, Animal Science Outstanding Graduate Student, Michigan State University.  
1985 and 1986 Council of Graduate Students Appreciation Award.

## GRADUATE STUDENTS/POST DOCTORAL FELLOWS

### Major Advisor:

Andrew Findlay, Postdoctoral Fellow  
Julie Richmond, Postdoctoral Fellow  
Weimen Zhang, Postdoctoral Fellow  
Kristen Govoni, M.S., Ph.D.  
Jamie Himmelfarb, M.S.  
Kirsten Krause, M.S. (current)  
Elizabeth Jones, M.S.  
Megan Shoemaker Munis, Ph.D. (current)  
Amanda Parillo, M.S.  
Diane Paquin Platts, M.S.  
Kristen Peck, M.S.  
Margaret Rausch, M.S.  
Julie Richmond, Ph.D.  
Heather Ringrose, M.S.  
Amber Rivard, M.S.  
Melissa Rokosa, M.S.  
Kristin Steinman, M.S.  
Bisi Velayudhan, M.S.  
Sonja Weissbach, M.S.

### Associate Advisor:

Elizabeth Ackell, M.S.  
Shubrata Chattophyay, Ph.D.  
Joan D'Sousa, M.S.  
Amrita Dutta, Ph.D.  
David Freeman, Ph.D.  
Vasile Furu, M.S., Ph.D.  
Sam Muraleedharan Geetha, Ph.D.  
Amanda Jones, M.S., Ph.D.  
Christopher Keater, Ph.D.  
Kevin Kouri, M.S.  
Aime Franco, M.S.  
Bruce Gratten, M.S.  
Yu Li, M.S.  
Maria Hoffman, Ph.D.  
Amanda Leifeld, M.S.  
Dominique Martin, M.S.  
Robin Rastoni, M.S.  
Amanda Reiter, Ph.D. (current)  
Maria Sciadone, Ph.D.  
Donald Shaw, Ph.D.  
Brendan Smith, Ph.D.

Jessica Starkey, Ph.D.  
Nicole Tillquist, Ph.D. (current)  
Alexis Trench, MS  
Mark Tripp, M.S., Ph.D.  
Lili Yao, M.S.  
Mei-chin Yin, Ph.D.  
ShyAnn Williams, MS

#### INVITED PRESENTATIONS:

"Testis-specific Expression of a Rat Proenkephalin-chloramphenicol Acetyltransferase Gene in Transgenic Mice", Northeast 148 Regional Hatch Project, November 7-9, 1990.

"BST Research at the University of Connecticut" Tuft's University Ambulatory Staff, Woodstock, CT, October 16, 1991.

"The Use of Transgenic Animals to Study Regulation of Gene Expression" Hematology Department, Tuft's University Medical School, Boston, MA, December 2, 1991.

"Regulation of Tissue-specific Gene Regulation of Proenkephalin in Rats" Department of Nutritional Sciences, University of Connecticut, March 11, 1993.

"Animal Biotechnology" Department of Agriculture, Ag Tech Task Force, Storrs, CT, July 23, 1993.

"Nutritional and Genetic Components to Growth in Beef Cattle" New England Beef Cattle Workshop, Storrs, CT, November 6, 1993.

"Bovine Somatotropin: Some Facts, Figures and Fantasies" Department of Animal Science, December 10, 1993.

"Bovine Somatotropin: A New Technology" Young's Minerals Nutrition Conference, Hartford, CT, January 20, 1994.

"Bovine Somatotropin: Should We or Shouldn't We?" Litchfield County Dairy Committee, Litchfield, CT, January 25, 1994.

Invited Testimony, "Bovine Somatotropin" General Legislative Committee, Connecticut Legislature, Hartford, CT, March 10, 1994.

Invited Testimony, "Bovine Somatotropin" Environment Committee, Connecticut Legislature, Hartford, CT, March 11, 1994.

"Proenkephalin Expression in Transgenic Mice" Department of Animal Science and Agricultural Biochemistry, University of Delaware, Newark, DE, November 14, 1994.

"GH, GRF and Genetics" Metabolism Group, Department of Animal Science, Cornell University, Ithaca, NY, December 1, 1994.

"DNA as a Research Tool for Meat Scientists" Meat Industry Research Conference: Science & Technology for Change, Chicago, IL, September 20, 1995.



"Bioactive Components in Milk: Introduction" Third Joint ASAS/EAAP Workshop on the Biology of Lactation in Farm Animals, Lillehammer, Norway, August 23, 1996.

"Research in Bovine Growth Hormone" Biology Honors Program, University of Connecticut, March 11, 1997.

"Growth Hormone in Cattle" Department of Physiology and Neurobiology, University of Connecticut, November 5, 1997.

"Somatotropin: Regulation of Secretion and its Role in Growth and Lactation" Department of Animal Science, February 12, 1999.

"Somatotropin in Growth and Lactation" Sino-US Symposium on Biotechnology, Xi'an, China, July 13, 1999.

"A Contemporary Perspective of China" Department of Animal Science, September 24, 1999.

"Growth Hormone in Cattle" Williams and Connolly LLP, Washington D.C., March 29, 2000.

"Pre-veterinary Advising at the University of Connecticut" Ross University, Basseterre, St. Kitts, June 8, 2001.

"The Somatotropic Axis in Cattle" Animal Science workshop for Vo-Ag teachers, University of Connecticut, July 18, 2001.

"Growth Hormone in Growth and Lactation of Cattle and Pigs" University of Fort Hare, Alice, South Africa, November 11, 2001.

"Porcine Somatotropin to Stimulate Growth and Feed Efficiency in Swine" Connecticut Innovations, Inc. Rocky Hill, CT, October 12, 2001

"Physiological and Nutritional Influence on Serum Growth Hormone, Insulin-like Growth Factor (IGF) and IGF Binding Proteins in Cattle, Pigs and Rats" Heavy Metals Group, Department of Chemistry, University of Connecticut, November 28, 2001.

"Applications of Exogenous Porcine Somatotropin" Connecticut Innovations, Inc. Rocky Hill, CT, November 20, 2002

"The Somatotropic Axis in Growth and Lactation" Department of Animal Science, Rutgers University, New Brunswick, NJ, February 28, 2003

"The Somatotropic Axis on Land and in the Sea" Mystic Aquarium for Underwater Exploration, Mystic, CT, June 9, 2005

"The Somatotropic Axis in Marine Mammals" University of Alaska, Anchorage, AK September 7, 2007

"The Somatotropic Axis: Use of Captive Marine Mammals as a Model for Free Ranging Animals" Marine Mammals in the Lab: Tools for Conservation and Science Workshop University of British Columbia, Vancouver British Columbia, Canada. September 10, 2007.

"Scientific Writing in an Animal Science Curriculum" 2007 Northeast Regional Teaching Workshop, University of Connecticut, Storrs, CT, September 28, 2007.

“Pre-veterinary Advising in Animal Science” St. George’s University, Grenada, November 14, 2007

“Reviewer’s Workshop” Joint Animal Meetings, Montreal, Canada, July 13, 2009.

“Somatotropic Axis in Growth and Lactation” American Society for Animal Science-Chinese Animal Science and Veterinary Medicine Asia Pacific Rim Conference, Beijing China, November 10, 2009

“Writing Workshop: Publishing in the *Journal of Animal Science*” (Joint presentation with G.S. Lewis) American Society for Animal Science-Chinese Animal Science and Veterinary Medicine Asia Pacific Rim Conference, Beijing China, November 10, 2009.

“Animal Science Learning Community” University of Connecticut First Year Programs Luncheon Seminar, Storrs, CT, November 17, 2009

“FYE Mentors: A Valuable Resource” University of Connecticut First Year Programs Instructor/Mentor Training. August 24, 2010 and August 25, 2011

“Writing Workshop: Publishing in the *Journal of Animal Science*” (Joint presentation with G.S. Lewis) American Society for Animal Science-Asociación Argentina de Producción Animal, Mar del Plata, Argentina, October 7, 2011.

“Open access: A tale of Two Journals” Association of College and Research Libraries - New England Section, Shrewsbury, MA, November 18, 2011.

“It is not a Scientific Contribution until it is Published: Tips from a Journal Editor” Invited presentation, Joint Annual Meeting American Society of Animal Science and American Dairy Science Association, Phoenix, AZ, July 18, 2012.

“Writing Workshop: Publishing in the *Journal of Animal Science*” (Joint presentation with J.L. Sartin) American Society for Animal Science-Asociación Mexicana de Producción Animal, Villahermosa, Mexico, May 20-21, 2013.

“Publishing in Peer-reviewed Journals” University of Connecticut Extension System, Storrs, CT, October 10, 2013.

“Teaching in First Year Experience” Institute for First-Year Curricular Innovation, University of Connecticut, May 14, 2014.

“The Human-Animal Bond and Domestication: Through the ages...Animals in our Lives” United States Congressional staffers, Washington DC, July 7, 2014

“Graduate Education: Lessons from my Mentor” Biology of Lactation of Farm Animals Workshop, American Society of Animal Science, Kansas City, MO, July 20, 2014.

“Learning Communities: Meeting the Needs of Today’s Students” National Students in Transition Conference, Denver, CO, October 20, 2014.

“The Role of the Curriculum in Preparing Animal Sciences Students for Life after Graduation” Innovate 2015 Innovations in Education: An Animal Sciences Curriculum for the 21st Century. Braselton, GA, June 1, 2015.

“Effects of Intrauterine Growth Retardation on Fetal Muscle Development in Sheep” USDA PD Workshop, Orlando, FL, July 19, 2015.

“Careers in Animal Science” KAΘ annual careers program, University of Connecticut, October 28, 2015.

“Animal Science at the University of Connecticut” Instituto de Ciencia Animal, Mayabeque, Cuba, January 10, 2017

“The effects of poor maternal nutrition during gestation on offspring growth” Instituto de Ciencia Animal, Mayabeque, Cuba, January 11, 2017.

“Agvocacy: Advocating for Agriculture and Science” Midwest ASAS meeting, Omaha, NE, March 14, 2017.

“Biology of Lactation in Farm Animals: The Beginning” ASAS annual meeting, Baltimore, MD, July 8, 2017.

“Meeting students where they are...” Northeast Regional Teaching Workshop, University of Connecticut, June 13, 2019.

“2011-2019: Animal Science 8-year review” Department of Animal Science, University of Connecticut, February 14, 2020.

“Morrison Award: The mentors and the mentees” Invited talk, ASAS annual meeting, Louisville, KY July 14, 2021

“Teaching in a post-pandemic world: Face-to-Face (ish) LTE, Career Everywhere and FYE” Invited talk, ASAS annual meeting, Louisville, KY July 15, 2021

“It is not a Scientific Contribution until it is Published” King Scholar Invited Graduate Student Presentation, University of Arkansas, March 2, 2022.

“Developmental Programing in Ruminants: What Mom Eats Matters” King Scholar Invited Presentation, University of Arkansas, March 2, 2022.

## EDITORIAL:

### A. Editor-in-Chief

*Journal of Animal Science* (2008-2013)

*Animal Frontiers: The review magazine of animal agriculture* (2011-2015)

*Proceedings of Western Section of the American Society of Animal Science* (2012)

### B. Division Editor

*Journal of Animal Science* (2005-2008)

Animal Growth, Physiology, and Reproduction Division

### C. Associate Editor

*Journal of Animal Science* (2003-2005)

Animal Growth, Physiology, and Reproduction Division

D. Editorial Boards

*Journal of Animal Science* (2000-2003)

*Journal of Dairy Science* (1998-2003)

PEER REVIEW:

A. Grant Review Panels

USDA-SBIR

National Science Foundation

B. International Review Panels

*Medical Science Monitor* (2002-2005)

*Reproductive Biology and Endocrinology* (2002-2005)

C. External Ad Hoc Reviewer

Journals

*Journal of Animal Science*

*Agriculture*

*Animal*

*Animal Production Science*

*Animals*

*Journal of Dairy Science*

*Journal of General and Comparative Endocrinology*

*Journal of Nutrition & Food Sciences*

*Journal of Zoo and Wildlife Medicine*

*Life Science*

*Domestic Animal Endocrinology*

*Livestock Production Science*

*BMC Genomics*

*BMC Veterinary Research*

*Genes*

*Molecular and Cellular Endocrinology*

*PLoS ONE*

*Small Ruminant Research*

*Reproductive Biology and Endocrinology*

*Reproduction, Nutrition, Development*

*Translational Animal Science*

*Veterinary Medicine International*

*Zoo Biology*

Grants

USDA-NRI

USDA-SBIR

National Science Foundation

Natural Sciences and Engineering Research Council of Canada

University of Maryland Experiment Station Projects

The Pennsylvania State University USDA Dairy Grants

University of Connecticut Research Foundation

Connecticut Experiment Station Hatch Projects

## Promotion and Tenure

Auburn University  
Clemson University  
Jordan University of Science and Technology  
McGill University  
North Carolina State University  
North Dakota State University  
University of Ghana  
University of Maine  
University of Idaho (2)  
University of Vermont  
University College, Dublin  
USDA (3)  
Virginia Tech (2)  
Washington State University (2)  
West Virginia University

## D. Abstracts

Western Section of American Society of Animal Science (ASAS) annual proceedings  
Physiology Section, American Dairy Science Association (ADSA)  
ASAS/EAAP Biology of Lactation Workshop  
ASAS/ADSA Joint Annual Meeting  
Midwest ASAS/ADSA Annual Meeting

## COMMITTEES:

### University of Connecticut

1990-1997 Advisory Committee (Chair) of the New England Animal Biotech Symposium.  
1991-1999 Graduate Committee, Animal Science (Chair 1998-1999).  
1992-1993 Search Committee, Dean, College of Agriculture and Natural Resources (CANR).  
1992-1998 Advisory Board, University of Connecticut Biotechnology Center.  
1993-1999 Agricultural Biotechnology Building Committee  
1993-1995, 2007-2013 Life Sciences Review Panel, University of Connecticut Research Foundation (Chair 1994-1995).  
1993-1994 Search Committee, Head of Animal Science Department.  
1994-present Recruitment Committee (Chair), Animal Science.  
1995-1996 Search Committee, Transgenic Scientist, Animal Science.  
1995-1999, 2000-2001, 2005, 2007-2010, 2011-2012 Promotion & Tenure Review (PTR) Committee, Animal Science (Chair, 1999, 2005, 2009).  
1996-1998 Editorial Review Committee, CANR  
1997-1998 Search Committee (Chair), Molecular Geneticist, Animal Science.  
1998 Search Committee, Operations Manager, Office of Animal Research Services (OARS)  
1998 Search Committee, Attending Veterinarian, OARS.  
1998-2002 Summer Book Reading Program, Session Leader.  
1999-2000, 2005-2006, 2010-2011 PTR Committee, CANR (Chair 2006)  
1999-2001 Diversity Committee, CANR.  
2000-2002 Resource Allocation Committee, CANR  
2000-2011 University Advising Council, Undergraduate Education & Instruction  
2000-2001 Search Committee (Chair), Equine Extension Specialist, Animal Science  
2003 Search Committee, Academic Advisor, Office of Undergraduate Programs, CANR  
2003, 2005, 2009 FYE Instructor of the Year Selection Committee  
2003-2008, 2015 -2016“W” subcommittee of General Education Oversight Committee (co-Chair 2015-2016)

2003-2007 Advisor of the Year Selection Committee (Chair, 2003, 2006)  
 2004-2010 First Year Experience Advisory Board  
 2004 Search Committee, Food Toxicologist/Food Allergist, Animal Science  
 2004-present Advisory Panel to Women's Center  
 2004-2012 Retention and Graduation Taskforce  
 2005-2006 Search Committee, Head of Animal Science Department  
 2005 Search Committee, Meat Scientist, Animal Science  
 2006, 2010 Senator University of Connecticut Faculty Senate  
 2006-present Host Committee, Women's Center  
 2006-2008 President's Athletic Advisory Committee (2007-2008 Executive Committee)  
 2007 Search Committee (Chair), Assistant Professor Animal Science  
 2007-2008 Search Committee, Dean CANR  
 2007-2008 Associate Vice-Provost Review Committee  
 2008-2010 University of Connecticut Diversity Committee  
 2010 Search Committee, Director of Office of Undergraduate Research  
 2010-present First Year Programs Oversight Committee (Chair 2010-2016)  
 2011-2012 CANR Research Advisory Committee  
 2012-2017 University of Connecticut Provost's Program Review Committee  
 2013-2018 University of Connecticut Goldwater Scholarship Selection Committee  
 2014-present University of Connecticut Provost's Public Safety Advisory Committee  
 2015-present University of Connecticut Provost's Undergraduate Lab Safety Working Group  
 2015-2019 University of Connecticut Provost's Undergraduate Advising Oversight Committee  
 2017 Search Committee Vice-Provost for Academic Affairs  
 2017-2019 Center for Excellence in Teaching and Learning (CETL) Teaching Innovation Selection Committee  
 2017-present UConn Foundation Faculty Excellence Selection Committee (Chair 2018-present)  
 2018-2021 President's Retirement Committee  
 2020-present Provost's Committee on Library Subscriptions  
 2021-present IACUC  
 2022-present Dean's Review Committee on CAHNR Centers

#### Regional

1992-1993 Secretary to Regional Research Group, NE-148.  
 1993-1994 Vice Chair to Regional Research Group, NE-148.  
 1994-1995 Chairman of Regional Research Group, NE-148.  
 1993-1994 Secretary Northeast Section ASAS.  
 1994-1995 Vice-President Northeast Section ASAS.  
 1995-1996 President Northeast Section ASAS.  
 2001-2002 Secretary to Regional Research Group, NE-148.  
 2006-2008 Coordinator NE-ASAS/ADSA Graduate student competition

#### National

1993-1996 Physiology Committee, ADSA (Chair 1995-1996).  
 1993-1996 Program Committee, Joint ASAS/European Association for Animal Production (EAAP) Biology of Lactation Workshop.  
 1996-1998 Steering Committee, Joint ASAS/EAAP Biology of Lactation Workshop.  
 1994-1997 Board of Directors, ASAS (Executive Committee 1995-1997)  
 1995-1997 Member, Ways and Means Committee, ASAS.  
 1995 Selection Committee Distinguished Service Award ASAS (Chair).  
 1995-1997 Recording Secretary, ASAS.  
 1995-1997, 2005-2013 Member, Publications Committee, ASAS.  
 1995-1997 Editor of ASASynopsis (four issues/year), The ASAS newsletter.  
 1996 Selection Committee Growth and Development Award, ASAS (Chair).

1997 Selection Committee Animal Physiology & Endocrinology Award, ASAS (Chair)  
1998-2005 Public Information Committee, ASAS  
1998-2005 Editorial Board, Journal of Dairy Science  
2000 Teaching Award Selection Committee, ASAS  
2000 Service Award Selection Committee, ASAS  
2000-2003 Editorial Board, Journal of Animal Science  
2002-2005 Board of Directors, ASAS Foundation  
2003-2005 Associate Editor, Journal of Animal Science  
2005-2009 Animal Industry Service Award Committee, ASAS  
2005-2010, Division Editor, Journal of Animal Science  
2005-2006, Chair, ASAS Ethics Committee  
2008-2013 Editor-in-Chief, *Journal of Animal Science*  
2008-2013 Board of Directors, ASAS (Executive Committee 2008-2013)  
2010-2015 Editor-in-Chief, *Animal Frontiers*  
2010-2015 Managing Board *Animal Frontiers*  
2011 Lactation Biology Award Selection Committee, ASAS  
2011-2015 Advisory Committee to Sanford-Brown College-Farmington Associate of Science  
Degree in Veterinary Technology  
2013-2015 Extension Award Committee, ASAS  
2014-2015 Board of Directors, Federation of Animal Science Societies  
2015-2016 Nomination Committee, ASAS  
2015-2016 Growth and Development Award Committee, ASAS  
2015-2019 Beef Cattle Nutrition Symposium Committee, ASAS (Chair, 2015)  
2015-2016, 2017-2019, Board of Directors, ASAS Foundation  
2016-2017, Fellows Selection Committee, ASAS  
2016-2017, Member of ASAS Strategic planning Committee  
2016-2017, President-elect of ASAS  
2016-2019, Board of Directors ASAS (Executive Committee, 2016-2019)  
2017-2018, President ASAS  
2018-2019, Past President ASAS  
2021, ASAS Morrison Award Selection Committee

#### Community

1996-2001 Board of Education (Chair, 1997-2001), Eastford, CT  
1997-2003 Soccer Coach Eastford Youth Soccer Program  
1998-2002 "Read Across America" Volunteer  
1999-2007 Basketball Coach, Pomfret/Eastford Youth Basketball Program  
2000-2003 Town of Eastford Tree Commission (Chair, 2000), Eastford, CT  
2002-2003 Board of Selectman, Eastford, CT  
2002-2003 Inland Wetland Commission, Eastford, CT  
2002-2003 Plan of Conservation and Development Committee, Eastford, CT  
2005-2007 Coach, Woodstock Academy CT Storm Fall Basketball Team  
2006-2007 Coach Woodstock Academy Girls Summer Basketball Team  
2006 Soccer Coach NECONN District Soccer Team (U-13)  
2007 Board of Directors, Connecticut Storm AAU Girls Basketball  
2007 Coach Woodstock Academy Girls Summer Volleyball Team  
2008-2009 School Building Committee, Eastford, CT

#### PROFESSIONAL AFFILIATIONS:

American Society of Animal Science

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Zinn, S.A., R.C. Gorewit and R. Sagi. 1982. Milking responses of cows given premilking stimulation at four lactational stages. *J. Dairy Sci.* 65:668-671.

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Spicer, L.J. and S.A. Zinn. 1987. Relationship between concentrations of cortisol in ovarian follicular fluid and various biochemical markers of follicular differentiation in cyclic and anovulatory cattle. *J. Reprod. Fertility* 81:221-226.

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