CURRICULUM VITAE
Wendie S. Cohick, Ph.D.

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EDUCATION

Ph.D. 1989	Animal Science	Cornell University, Ithaca, NY
M.S. 1984	Dairy Science	University of Illinois, Urbana-Champaign
B.S. 1981	Animal Science	Cornell University, Ithaca, NY

PROFESSIONAL EXPERIENCE

2014–present	Chair, Dept. of Animal Sciences, Rutgers University, New Brunswick NJ
2011–present	Professor, Dept. of Animal Sciences, Rutgers University
2007–2014	Director, Graduate Program in Endocrinology & Animal Biosciences; Rutgers University
2002–2011	Associate Professor, Dept. of Animal Sciences, Rutgers University
1996–2002	Assistant Professor, Dept. of Animal Sciences, Rutgers University,
1995–1996	Research Instructor, Dept. of Medicine, University of North Carolina School of Medicine at Chapel Hill
1993–1995	Research Associate, Dept. of Medicine, UNC School of Medicine
1989–1993	Postdoctoral Fellow; Dept. of Medicine, UNC School of Medicine

ACADEMIC AFFILIATIONS

Associate Member, Cancer Institute of New Jersey
Member, Biotechnology Center for Agriculture and the Environment (1996–2009)
Member, Graduate Program in Endocrinology and Animal Biosciences
Member, Graduate Program in Nutritional Sciences
Member, Joint Graduate Programs in Molecular Biosciences (Cell and Developmental Biology; Microbiology and Molecular Genetics)

RESEARCH INTERESTS

My research interests center on the cellular and molecular mechanisms of hormone and growth factor action in normal mammary gland physiology and lactation as well as breast cancer. Much of my work has focused on the role of the insulin-like growth factors (IGFs) and their binding proteins (IGFBPs) in regulating cell proliferation and survival. The IGFBPs also have IGF-independent actions that play a role in programmed cell death, or apoptosis. My laboratory expanded our work in the area of apoptosis to determine how biological toxins such as ricin and shiga toxin mediate cell death in mammalian cells. Our breast cancer work uses an *in vivo* rat model to study how environmental insults to the fetus during pregnancy affect lifelong susceptibility to breast cancer in the offspring.

GRANT SUPPORT - External

2012–2017 NIH R01 AI072425-06A1 "What makes ricin toxic?" Co-Investigator; $1,919,550

2009–2013 USDA-CSREES-2009-35206-5210: "Role of nuclear IGFBP-3 in stress-induced apoptosis in bovine mammary epithelial cells"; PI; $349,981

2007–2012 NIH R01-AI072425-05A1:"Mechanism of cytotoxicity of ricin"; Co-Investigator; $1,894,875

2009–2010 NIH-ARRA-3R01AIO72425-03S1: "ARRA: Mechanism of cytotoxicity of ricin"; Co-Investigator; $53,766

2007–2010 NIH/NCI F31CA132620: "Effect of alcohol exposure *in utero* on mammary carcinogenesis"; PI; $85,319

2006–2009 NIH R21 AI068869-0: "Identification of the ribosomal target of Shiga-like toxins"; Co-Investigator; $424,250

2004–2007 NIH R21 A159720: "Mechanism of Action of Ricin A Chain"; Co-PI; $580,292

2004–2005 Cancer Institute of New Jersey: "Mechanism of Stimulation of Breast Cancer Progression by TIMP-1"; Co-PI; $25,000

2002–2005 USDA National Research Initiative Competitive Grant Award 2003-35206-12811: "Molecular mechanisms regulating IGFBP-3 gene expression in mammary epithelium"; PI; $170,000

2001–2004 Dept. of Defense Breast Cancer Research Program: "Phosphorylation of IGFBP-3 is essential for its growth-enhancing effect in mammary cells"; PI; $78,000

2000–2003 USDA National Research Initiative Competitive Grant Award 98-35206-6428: "Molecular mechanisms regulating IGFBP-3 gene expression in mammary epithelium"; PI; $185,000

1998–2000 USDA National Research Initiative Competitive Grant Award 98-35206-6428: "Role of IGFs and IGFBP-3 in bovine mammary epithelial cell growth"; PI; $125,000

1993–1997 USDA National Research Initiative Competitive Grant Award: "Role of insulin-like growth factors in bovine mammary epithelial cell growth and differentiation"; PI, $145,000

GRANT SUPPORT – Internal

USDA/NIFA – Cooperative State Research Service- Hatch Funding

2013–2018 "Regulation of cellular apoptosis and survival in the bovine mammary gland". Project # NJ 6165; $15,000

2008–2013 "Insulin-like growth factors and their binding proteins in the bovine mammary gland". Project #NJ 06148; $15,000

2002–2008 "Role of insulin-like growth factors and their binding protein in the bovine mammary gland". Project # NJ 06148; $15,000

1997–2002 "Role of insulin-like growth factors and their binding proteins in lactation". Project # NJ 06135; $15,000

Other Internal Funding

2005–2007 Busch Biomedical Research Grant: "Effect of insulin-like growth factor-I on estrogen induced mammary tumorigenesis in the ACI rat"; PI; $25,000

2001–2003 Busch Biomedical Research Grant, Rutgers University: "Intracellular localization of IGFBP-3 in mammary epithelial cells"; PI; $20,000

2000–2001 Cook College and NJ Agricultural Experiment Station Research Equipment Grant: "Chemiluminescent Imaging in Molecular Biology"; PI; $30,000

1999–2001 Busch Biomedical Research Grant; Rutgers University: "Identification of signaling pathways that regulate IGF binding protein-3 promoter activity"; PI; $20,000

1999–1997 Busch Biomedical Research Grant; Rutgers University: "Regulation of IGFBP-3 gene expression in mammary epithelial cells"; PI, $20,000

TRAINEE SUPPORT – Undergraduate Research

Aresty Undergraduate Research Awards (Internal Program):

2011 Jilian Boden: Molecular Mechanisms of Ricin-induced Cytotoxicity in Mammalian Cells; $1500

2009 Surein Theivakumar: Effects of Alcohol Exposure *in Utero* on Growth Factor Expression during Mammary Development; $500

2009 Adip Pilai: Use of Site-Directed Mutagenesis to Study the Biological Activity of Ricin in Mammalian Cells; $500

2008 Alyssa Cocchiara: Growth Factor Receptors in Ovarian Tissue of Rats Exposed to Alcohol *in Utero*; $1000

2007 Katherine Bradbury: Implications for Diabetes in Mammary Cell Signaling; $1200
2007 Andrea Sutter: Role of IGFBP-3 in Regulating Apoptosis in Mammary Epithelial Cells: $500

Undergraduate Research Fellowships Sponsored:

External

2009, 2010 NIH ARRA award for summer research, Recipients: Jillian Boden, Chris Krum
2005 NJ Commission on Cancer Research Summer Fellowship, Recipient: K. Bodtmann
2002 NJ Commission on Cancer Research Summer Fellowship, Recipient: D. Kingery
1999 USDA Summer Research Fellowship in Biotechnology, Adam Lazorchak
1998 NJ Commission on Cancer Research Summer Fellowship, Recipient: A. Lazorchak

Internal

2016 Douglass College STEM Summer Research Experience: Raveena Midha
2015 RISE Summer Internship, Recipient: Kadija Anston
2009 RISE Summer Internship, Recipient: Madison Myers
2009 Douglass College STEM. Summer Research Experience: Alyssa Cocchiara
2008 RISE Summer Internship, Recipient: Vivian Periera
2008 Douglass College STEM. Summer Research Experience: Alyssa Cocchiara
2007 RISE Summer Internship, Recipient: Irene Adu-Gyamfi
2007 Biotechnology Summer Internship, Recipient: Katherine Bradbury
2006 Biotechnology Summer Internship, Recipient: Andrea Sutter
2005 Biotechnology Summer Internship, Recipient: Mohan Bolisetty
2003–2004 Rutgers University Undergraduate Research Fellow, Recipient: Kristen Willems
2002–2003 Rutgers University Undergraduate Research Fellow, Recipient: David Kingery
2000–2001 Rutgers University Undergraduate Research Fellow, Recipient: Pui Chi Wong
1999–2000 Rutgers University Undergraduate Research Fellow, Recipient: Adam Lazorchak
1998 UMDNJ Biomedical Careers Program, Recipient: Patricia Adem

PUBLICATIONS

Refereed Journal Articles

1. Jetzt AE, Li XP, Tumer NE, Cohick WS. 2016. Toxicity of ricin A chain is reduced in mammalian cells by inhibiting its interaction with the ribosome. Toxicol Appl Pharmacol. 310:120-128. [https://www.ncbi.nlm.nih.gov/pubmed/27639428]

2. Stires H, Saboya M, Globerman SP, Cohick WS. 2016. Peroral estradiol is sufficient to induce carcinogen-induced mammary tumorigenesis in ovariectomized rats without progesterone. PLoS One Sep 9;11(9):e0162662. [https://www.ncbi.nlm.nih.gov/pubmed/27611094]

3. Crismale-Gann C, Stires H, Katz TA, Cohick WS. 2016. Tumor phenotype and gene expression during early mammary tumor development in offspring exposed to alcohol *In Utero*. Alcohol Clin Exp Res. Aug;40(8):1679-90. doi: 10.1111/acer.13139. Epub 2016 Jul 4. [https://www.ncbi.nlm.nih.gov/pubmed/27373230]

4. Cohick, WS. 2016. Effects of insulin on mammary gland differentiation during pregnancy and lactation. J Anim Sci. 2016 May;94(5):1812-20. doi: 10.2527/jas.2015-0085. [https://www.ncbi.nlm.nih.gov/pubmed/27285678]

5. Agostini-Dryer A, Jetzt AE, Stires H, Cohick WS. 2015. Endogenous IGFBP-3 mediates intrinsic apoptosis through modulation of Nur77 phosphorylation and nuclear export. Endocrinology 156:4141-51. [http://www.ncbi.nlm.nih.gov/pubmed/26340041]

6. Duncan CA, Jetzt AE, Cohick WS, John-Alder HB. 2015. Nutritional modulation of IGF-1 in relation to growth and body condition in Sceloporus lizards. Gen Comp Endocrinol 216:116-24. [http://www.ncbi.nlm.nih.gov/pubmed/25709095]

7. Cohick WS, Crismale-Gann C, Stires H, Katz TA. 2015. Fetal alcohol exposure and mammary tumorigenesis in offspring: role of the estrogen and insulin-like growth factor systems. Adv Exp Med Biol 815:403-24. [http://www.ncbi.nlm.nih.gov/pubmed/25427921]

8. Leibowitz BJ, Agostini-Dreyer A, Jetzt AE, Krumm CS, Cohick WS. 2013. IGFBP-3 mediates stress-induced apoptosis in normal mammary epithelial cells. J Cell Physiol 228:734-742. [http://www.ncbi.nlm.nih.gov/pubmed/22949229]

9. Jetzt AE, Cheng J-S, Li X-P, Tumer NE, Cohick WS. 2012. A relatively low level of ricin depurination by mutant forms of ricin toxin A chain can trigger protein synthesis inhibition, cell signaling and apoptosis in mammalian cells. Intl J Biochem & Cell Biol 44:2204-2211. [http://www.ncbi.nlm.nih.gov/pubmed/22982239]

10. Wang C-T, Jetzt AE, Cheng J-S, Cohick WS. 2011. Inhibition of the Unfolded Protein Response by Ricin A-Chain Enhances Its Cytotoxicity in Mammalian Cells. Toxins 3:453-468. [http://www.ncbi.nlm.nih.gov/pubmed/22069719]

11. Polanco TA, Crismale-Gann C, Cohick WS. 2011. Alcohol exposure *in utero* leads to enhanced prepubertal mammary development and alterations in mammary IGF and estradiol systems. Hormones and Cancer 2:239-248. http://www.ncbi.nlm.nih.gov/pubmed/21761112

12. Polanco TA, Crismale-Gann C, Reuhl KR, Sarkar DK, Cohick WS. 2010. Fetal alcohol exposure increases mammary tumor susceptibility and alters tumor phenotype in rats. Alcohol Clin Exp Res 34:1879-1887. [http://www.ncbi.nlm.nih.gov/pubmed/206628022]

13. Gorelick-Feldman J, Cohick W, Raskin I. 2010. Ecdysteroids elicit a rapid Ca(2+) flux leading to Akt activation and increased protein synthesis in skeletal muscle cells. Steroids 75:632-637. Epub 2010 Apr 2. https://www.ncbi.nlm.nih.gov/pubmed/20363237

14. Jetzt AE, Cheng JS, Tumer NE, Cohick WS. 2009. Ricin A-chain requires c-Jun N-terminal kinase to induce apoptosis in nontransformed epithelial cells. Intl J Biochem Cell Biol 41:2503-2510. [http://www.ncbi.nlm.nih.gov/pubmed/19695342]

15. Leibowitz BJ, Cohick WS. 2009. Endogenous IGFBP-3 is required for both growth factor-stimulated cell proliferation and cytokine-induced apoptosis in mammary epithelial cells. J Cell Physiol 220:182-188. [http://www.ncbi.nlm.nih.gov/pubmed/19259947]

16. Loor JJ, Cohick WS. 2009. ASAS centennial paper: Lactation biology for the twenty-first century. J Anim Sci 87(Feb):813-824. Epub 2008 Sept. 26. [http://www.ncbi.nlm.nih.gov/pubmed/18820152]

17. Fleming JM, Brandimarto JA, Cohick WS. 2007. The mitogen-activated protein kinase pathway tonically inhibits both basal and IGF-I-stimulated IGF-binding protein-5 production in mammary epithelial cells. J Endocrinol 194 (August):349-359. [http://www.ncbi.nlm.nih.gov/pubmed/17641284]

18. Fleming JM, Desury G, Polanco TA, Cohick WS. 2006. IGF-I and epidermal growth factor receptors recruit distinct upstream signaling molecules to enhance AKT activation in mammary epithelial cells. Endocrinology 147 (December):6027-6035. [http://www.ncbi.nlm.nih.gov/pubmed/16990343]

19. Thorn SR, Purup S, Cohick WS, Vestergaard M, Sejrsen K, Boisclair YR. 2006. Leptin does not act directly on mammary epithelial cells in prepubertal dairy heifers. J Dairy Sci 89 (May):1467-1477. [http://www.ncbi.nlm.nih.gov/pubmed/16606717]

20. Fleming JM, Leibowitz BJ, Kerr DE, Cohick WS. 2005. IGF-I differentially regulates IGF-binding protein expression in primary mammary fibroblasts and epithelial cells. J Endocrinol 186 (July):165-178. [http://www.ncbi.nlm.nih.gov/pubmed/16002546]

21. Sivaprasad U, Fleming J, Verma PS, Hogan KA, Desury G, Cohick WS. 2004. Stimulation of insulin-like growth factor (IGF) binding protein-3 synthesis by IGF-I and transforming growth factor-α is mediated by both phosphatidylinositol-3 kinase and mitogen-activated protein kinase pathways in mammary epithelial cells. Endocrinology 145 (Sept):4213-4221. [http://www.ncbi.nlm.nih.gov/pubmed/15192040]

22. Cornwell T, Cohick W, Raskin I. 2004. Dietary phytoestrogens and health. Phytochemistry 65:995-1016. https://www.ncbi.nlm.nih.gov/pubmed/15110680

23. Grill CJ, Sivaprasad U, Cohick WS. 2002. Constitutive expression of IGF-binding protein-3 by mammary epithelial cells alters signaling through Akt and p70S6 kinase. J Mol Endocrinol 29:153-162. [http://www.ncbi.nlm.nih.gov/pubmed/12200236]

24. Grill CJ, Cohick WS, Sherman A. 2001. Postpubertal development of the rat mammary gland is preserved during iron deficiency. J Nutr 131:1444-1448. [http://www.ncbi.nlm.nih.gov/pubmed/11340097]

25. Cohick WS, Wang B, Verma P, Boisclair YR. 2000. Insulin-like growth factor I (IGF-I) and cyclic adenosine 3',5'-monophosphate regulate IGF-binding protein-3 gene expression by transcriptional and posttranscriptional mechanisms in mammary epithelial cells. Endocrinology 141:4583-4591. [http://www.ncbi.nlm.nih.gov/pubmed/11108271]

26. Grill CJ, Cohick WS. 2000. Insulin-like growth factor binding protein-3 mediates IGF-I action in a bovine mammary epithelial cell line independent of an IGF interaction. J Cell Physiol 183:273-283. [http://www.ncbi.nlm.nih.gov/pubmed/10737903]

27. Cohick WS. 1998. Role of the insulin-like growth factors and their binding proteins in lactation. J Dairy Sci 81:1769-1777. [http://www.ncbi.nlm.nih.gov/pubmed/9684183]

28. Cohick WS, Turner JD. 1998. Regulation of IGF binding protein synthesis by a bovine mammary epithelial cell line. J Endocrinol 157:326-336. [http://www.ncbi.nlm.nih.gov/pubmed/9659296]

29. Schoknecht PA, McGuire MA, Cohick WS, Currie WB, Bell AW. 1996. Effect of chronic infusion of placental lactogen on ovine fetal growth in late gestation. Domest Anim Endocrinol 13:519-528. [http://www.ncbi.nlm.nih.gov/pubmed/8960408]

30. Cohick WS, Armstrong JD, Whitacre MD, Lucy MC, Harvey RW, Campbell RM. 1996. Ovarian expression of insulin-like growth factor-I (IGF-I), IGF binding proteins, and growth hormone (GH) receptor in heifers actively immunized against GH-releasing factors. Endocrinology 137:1670-1677. [http://www.ncbi.nlm.nih.gov/pubmed/8612500]

31. Cohick WS, Gockerman A, Clemmons DR. 1995. Regulation of insulin-like growth factor (IGF) binding protein-2 synthesis and degradation by platelet-derived growth factor and the IGFs is enhanced by serum deprivation in vascular smooth muscle cells. J Cell Physiol 164:187-196. [http://www.ncbi.nlm.nih.gov/pubmed/7540619]

32. McGuire MA, Bauman DE, Dwyer DA, Cohick WS. 1995. Nutritional modulation of the somatotropin/insulin-like growth factor system: response to feed deprivation in lactating cows. J Nutr 125:493-502. [http://www.ncbi.nlm.nih.gov/pubmed/7533210]

33. Cohick WS, Clemmons DR. 1994. Enhanced expression of dihydrofolate reductase by bovine kidney epithelial cells results in altered cell morphology, IGF-I responsiveness, and IGF binding protein-3 expression. J Cell Physiol 161:178-186. [http://www.ncbi.nlm.nih.gov/pubmed/7523425]

34. Stanko RL, Armstrong JD, Cohick WS, Harvey RW, Simpson RB, Hartnell GF, Heimer EP, Campbell RM. 1994. Effect of daily replacement therapy with recombinant bovine somatotropin on somatotropin, insulin-like growth factor I, and onset of puberty in beef heifers immunized against growth hormone-releasing factor. J Anim Sci 72:1786-1795. [http://www.ncbi.nlm.nih.gov/pubmed/7523357]

35. Stanko RL, Cohick WS, Armstrong JD, Shaw DW, Harvey RW, Clemmons DR, Whitacre MD. 1994. Effect of somatotropin and/or equine chorionic gonadotropin on serum and follicular insulin-like growth factor I and insulin-like growth factor binding proteins in cattle. Biol Reprod 50:290-300. [http://www.ncbi.nlm.nih.gov/pubmed/7511418]

36. Cohick WS, Gockerman A, Clemmons DR. 1993. Vascular smooth muscle cells synthesize two forms of insulin-like growth factor binding proteins which are regulated differently by the insulin-like growth factors. J Cell Physiol 157:52-60. [http://www.ncbi.nlm.nih.gov/pubmed/7691836]

37. Armstrong JD, Cohick WS, Harvey RW, Heimer EP, Campbell RM. 1993. Effect of feed restriction on serum somatotropin, IGF-I and IGF binding proteins in cyclic heifers actively immunized against growth hormone releasing factor. Domest Anim Endocrinol 10:315-324. [http://www.ncbi.nlm.nih.gov/pubmed/7508357]

38. Cohick WS, Clemmons DR. 1993. Regulation of IGFBP secretion and modulation of cell growth in MDBK cells. Growth Regul 3:20-23. [http://www.ncbi.nlm.nih.gov/pubmed/7683518]

39. Cohick WS, Clemmons DR. 1993. The insulin-like growth factors. Annu Rev Physiol 55:131-153. [http://www.ncbi.nlm.nih.gov/pubmed/8466170]

40. Armstrong JD, Stanko RL, Cohick WS, Simpson RB, Harvey RW, Huff BG, Clemmons DR, Whitacre MD, Campbell RM, Heimer EP. 1992. Endocrine events prior to puberty in heifers: role of somatotropin, insulin-like growth factor-I, and insulin-like growth factor binding proteins. J Physiol Pharmacol 43:179-193. [http://www.ncbi.nlm.nih.gov/pubmed/1285340]

41. Cohick WS, McGuire MA, Clemmons DR, Bauman DE. 1992. Regulation of insulin-like growth factor-binding proteins in serum and lymph of lactating cows by somatotropin. Endocrinology 130:1508-1514. [http://www.ncbi.nlm.nih.gov/pubmed/1371453]

42. McCusker RH, Cohick WS, Busby WH, Clemmons DR. 1991. Evaluation of the developmental and nutritional changes in porcine insulin-like growth factor-binding protein-1 and -2 serum levels by immunoassay. Endocrinology 129:2631-2638. [http://www.ncbi.nlm.nih.gov/pubmed/1718730]

43. Cohick WS, Clemmons DR. 1991. Regulation of insulin-like growth factor binding protein synthesis and secretion in a bovine epithelial cell line. Endocrinology 129:1347-1354. [http://www.ncbi.nlm.nih.gov/pubmed/1714831]

44. Plaut K, Cohick WS, Bauman DE, Baxter RC. 1991. Evaluation of interference by insulin-like growth factor-I (IGF-I) binding proteins in a radioimmunoassay for IGF-I in serum from dairy cows. Domest Anim Endocrinol 8:393-405. [http://www.ncbi.nlm.nih.gov/pubmed/1721017]

45. Crooker BA, McGuire MA, Cohick WS, Harkins M, Bauman DE, Sejrsen K. 1990. Effect of dose of bovine somatotropin on nutrient utilization in growing dairy heifers. J Nutr 120:1256-1263. [http://www.ncbi.nlm.nih.gov/pubmed/2213254]

46. Cohick WS, Plaut K, Sechen SJ, Bauman DE. 1989. Temporal pattern of insulin-like growth factor-I response to exogenous bovine somatotropin in lactating cows. Domest Anim Endocrinol 6:263-273. [http://www.ncbi.nlm.nih.gov/pubmed/2766694]

47. Vicini JL, Cohick WS, Clark JH, McCutcheon SN, Bauman DE. 1988. Effects of feed intake and sodium bicarbonate on milk production and concentrations of hormones and metabolites in plasma of cows. J Dairy Sci 71:1232-1238. [http://www.ncbi.nlm.nih.gov/pubmed/2840456]

48. Slepetis R, Cohick WS, Bauman DE, Hackett R. 1987. Surgical cannulation of a hepatic vein in dairy cows utilizing diagnostic ultrasound. J Dairy Sci 70:571-575. [http://www.ncbi.nlm.nih.gov/pubmed/3294948]

49. Cohick WS, Vicini JL, Staples CR, Clark JH, McCutcheon SN, Bauman DE. 1986. Effects of intake and postruminal casein infusion on performance and concentrations of hormones in plasma of lactating cows. J Dairy Sci 69:3022-3031. [http://www.ncbi.nlm.nih.gov/pubmed/3549815]

Peer-Reviewed Abstracts Presented at Scientific Meetings

Stires HA, Crismale-Gann C, Cohick WS. 2016. The prepubertal mammary gland transcriptome suggests a role for the immune system in hormone-independent breast cancer. American Association of Cancer Research Annual Meeting. New Orleans, LA.

Stires HA, Saboya M, Globerman SA, Cohick WS. 2015. NMU induction of mammary tumors in ovariectomized rats administered peroral estrogen, progesterone or in combination. American Association of Cancer Research Annual Meeting, Philadelphia PA.

Agostini-Dreyer A, Jetzt AE, Cohick WS. 2014. Role of Nuclear IGFBP-3 in response to intrinsic apoptotic stress in bovine mammary epithelial cells. Joint National Meeting of the American Society of Animal Science/American Dairy Science Association. Kansas City MO.

Agostini-Dreyer A, Jetzt AE, Cohick WS. 2014. IGFBP-3 mediates intrinsic apoptosis through phosphorylation and nuclear export of Nur77. 96th Annual Meeting of the Endocrine Society, Chicago IL.

Crismale-Gann C, Polanco TA, Stires H, Cohick WS. 2013. Effects of fetal alcohol exposure on tumor development and gene expression in rats. American Association of Cancer Research Annual Meeting Washington DC.

Agostini-Dreyer A, Cohick, WS. 2012. Cellular stress directs IGFBP-3 to the nucleus in mammary epithelial cells. FASEB J 26:460. San Diego CA.

Crismale-Gann C, Polanco TA, Cohick WS. 2011. Epigenetic regulation of IGFBP-5 and estrogen receptor (ER) in mammary glands and tumors of fetal alcohol-exposed offspring. 93nd Annual Meeting of the Endocrine Society, Boston, MA.

Polanco TA, Crismale-Gann C, Cohick WS. 2010. Alterations in mammary gland morphology and the IGF-estrogen axis may contribute to increased mammary tumor susceptibility in fetal alcohol-exposed offspring. 92nd Annual Meeting of the Endocrine Society, San Diego, CA.

Duncan CA, Cohick WS, John-Alder HB. 2010. Effects of food deprivation on the insulin-like growth factor-I system in eastern fence lizards (*Sceloporus undulatus*). Annual Meeting of the Society for Integrative and Comparative Biology, Seattle, WA (January).

Polanco TA, Crismale-Gann C, Sarkar DK and Cohick WS. 2009. Molecular mechanisms involved in enhancing susceptibility to mammary tumorigenesis due to alcohol exposure *in utero*. 91st Annual Meeting of the Endocrine Society, Washington, DC.

Brandimarto, JA and Cohick WS. 2009. Inhibition of IGF binding protein-5 by the MAPK pathway involves PPAR-γ and NFκB. 91st Annual Meeting of the Endocrine Society, Washington, DC.

Polanco TA, Sarkar DK and Cohick WS. 2008. Alcohol exposure *in utero* leads to enhanced susceptibility to mammary tumorigenesis in rat offspring. Joint Scientific Meeting of the Research Society on Alcoholism and the International Society for Biomedical Research on Alcoholism, Washington, DC.

Loor JJ, Cohick WS. 2008. ASAS Centennial Presentation: Lactation biology for the 21st century. J Anim Sci 86:E-Suppl 2; J Dairy Sci 91 (E-Suppl 1).

Leibowitz B, Cohick WS. 2008. Ribotoxic stress-induced apoptosis requires both JNK-2 activation and nuclear localization of IGFBP-3 in normal epithelial cells. 90th Annual Meeting of the Endocrine Society, San Francisco, CA.

Leibowitz B, Bolisetty MT, Cohick WS. 2007. TNF-α-induced apoptosis is dependent on prolonged JNK activation and IGFBP-3 in mammary epithelial cells. 89th Annual Meeting of the Endocrine Society, Toronto, Canada.

Cohick W, Leibowitz B. 2006. The apoptotic factor anisomycin stimulates IGFBP-3 expression by enhancing mRNA stability through a p38 MAPK pathway. The Third International Congress of the GRS and the IGF Society, Kobe, Japan.

Leibowitz BJ, Sivaprasad U, Cohick WS. 2006. Regulation of anisomycin-induced IGFBP-3 expression is differentially regulated by p38, MAPK and JNK signaling pathways. 88th Annual Meeting of the Endocrine Society, Boston, MA.

Fleming JM, Polanco TA, Cohick WS. 2006. IGF-I and EGF activate distinct upstream signaling molecules to synergistically activate AKT in mammary epithelial cells. 88th Annual Meeting of the Endocrine Society, Boston, MA.

Cohick WS, Jetzt A, Cheng J, Leibowitz B, Baricevic M, Tumer N. 2006. Molecular mechanisms of ricin-induced apoptosis in mammalian cells. NERCE/BEID and Northeast Biodefense Center's Third Annual Retreat, Bolton Landing, NY (October); p. 83.

Fleming J, Cohick WS. 2005. Differential regulation of IGFBP-4 bioavailability by IGF-I and pregnancy associated plasma protein-A in primary mammary cells. 87th Meeting of the Endocrine Society, San Diego, CA; p. 722.

Wesolowski SR, Purup S, Cohick WS, Vestergaard M, Sejrsen K, Boisclair YR. 2005. Leptin does not act directly on mammary epithelial cells in prepubertal dairy heifers. 87th Meeting of the Endocrine Society, San Diego, CA; p. 217.

Hogan KA, Sivaprasad U, Desury G, Cohick, WS. 2004. IGF-I and TGF-α activate different upstream signaling molecules in bovine mammary epithelial cells. J Anim Sci 82 (Suppl 1):204.

Fleming J, Cohick WS. 2004. Activation of the MAPK pathway suppresses the ability of growth factors to stimulate insulin-like growth factor binding protein–5 expression in mammary epithelial cells. 86th Annual Meeting of the Endocrine Society, Las Vegas, NV; p. 487.

Sivaprasad U, Cohick WS. 2003. The PI3 kinase pathway mediates the effect of cAMP on IGFBP-3 mRNA levels through an akt-independent mechanism in mammary epithelial cells. 85th Annual Meeting of the Endocrine Society.

Sivaprasad U, Cohick WS. 2002. IGFBP-3 synthesis is regulated by c-JUN-N-terminal kinase (JNK) in mammary epithelial cells. First Joint Symposium of the GH-IGF Societies, Boston, MA

Sivaprasad U, Fleming, J, Verma P, Cohick WS. 2002. Stimulation of IGF Binding Protein-3 synthesis by IGF-I and TGF-α is mediated by PI3 kinase and MAP kinase in mammary epithelial cells. 84th Annual Meeting of the Endocrine Society, p.177.

Cohick WS, Grill CJ. 2001. Regulation of IGF signaling by IGF binding protein-3 in the mammary gland. J Animal Sci 79 (Suppl 1):101.

Grill CJ, Cohick WS. 2001. Potentiation of IGF-I action in mammary epithelial cells expressing IGFBP-3 involves alterations in the PI3 kinase signaling cascade. 83rd Annual Meeting of the Endocrine Society; p. 189.

Sivaprasad U, Verma P, Cohick WS. 2001. IGFBP-3 protein secretion is induced at doses of anisomysin that do not inhibit protein synthesis. 83rd Annual Meeting of the Endocrine Society; p. 347.

Cohick WS, Park Y, Lazorchak A. 2000. Super-induction of IGF binding protein-3 mRNA levels by protein synthesis inhibitors and forskolin: possible signaling mechanisms. 82nd Annual Meeting of the Endocrine Society; p. 919.

Grill C, Cohick WS. 1999. Modulation of IGF-I action and cell growth by IGFBP-3 in a bovine mammary epithelial cell line. 81st Annual Meeting of the Endocrine Society; p. 169.

Cohick WS, Verma P, Grill C, Wang B. 1998. Regulation of insulin-like growth factor (IGF) binding protein-3 gene expression by IGF-I and cyclic AMP in bovine mammary epithelial cells. J Dairy Sci 81 (Suppl 1):211.

Cohick WS. 1997. The role of IGFs and their binding proteins in lactation. J Animal Sci 75 (Suppl 1): 83.

Cohick WS. 1995. Regulation of IGF binding protein secretion in bovine mammary epithelial cells. J Dairy Sci 78 (Suppl 1):261.

Cohick WS, Gockerman A, Clemmons DR. 1995. Effects of PDGF, the IGFs and serum deprivation on IGFBP-2 synthesis and degradation by vascular smooth muscle cells. 77th Annual Meeting of the Endocrine Society; p 168.

Cohick WS, Gockerman A. 1993. Regulation of IGF binding protein synthesis and bioavailability in cultured vascular smooth muscle cells. 75th Annual Meeting of the Endocrine Society; p. 421.

Cohick WS, McCusker RH, Clemmons DR. 1992. Transfection of MDBK cells with dihydrofolate reductase results in altered cell morphology and IGFBP-3 expression. Second International Workshop on IGFBPs, Opio, France; p. 6.

Stanko RL, Armstrong JD, Cohick WS, Shaw DW, Harvey RW, Clemmons DR, Whitacre MD. 1992. Effect of somatotropin (ST) and (or) pregnant mare serum gonadotropin (PMSG) on serum and follicular insulin-like growth factor I (IGF-I) and IGF binding protein-2 (IGFBP-2) in cattle. J Anim Sci 70 (Suppl 1):2.

Armstrong JD, Cohick WS, Harvey RW, Huff BG, Guidi PDS, Campbell RM, Heimer EP, Clemmons DR, Whitacre MD. 1992. Effect of active immunization against growth hormone releasing factor (GRFi) on follicular growth, serum and follicular IGF-I and IGF binding proteins (IGFBPs), and onset of puberty in heifers. J Anim Sci 70 (Suppl.1):275.

Schoknecht PA, McGuire MA, Cohick WS, Currie WB, Bell AW. 1992. The effect of placental lactogen infusion on serum IGF-I and IGFBP-2 concentrations in the late gestation ovine fetus. J Anim Sci 70 (Suppl 1):212.

McCusker RH, Cohick WS, Busby WH. 1992. Vectorial secretion of insulin-like growth factor (IGF)-binding proteins (IGFBPs). 74th Annual Meeting of the Endocrine Society; p. 288.

McGuire MA, Cohick WS, Clemmons DR, Bauman DE. 1991. Effects of protein and energy restriction on concentrations of IGFs and IGF binding protein-2 (IGFBP-2) in lactating cows treated with somatotropin. Second International IGF Symposium, San Francisco, CA; p 148.

Cohick WS, McCusker RH, Clemmons DR. 1990. Insulin-like growth factor binding proteins (IGFBPs) modulate IGF-I binding and IGF-I mediated growth responses of MDBK cells. 72nd Annual Meeting of the Endocrine Society; p. 95.

Cohick WS, Busby WH, Clemmons DR, Bauman, DE. 1990. Insulin-like growth factor binding proteins (IGFBPs) in serum of lactating cows treated with recombinant n-methionyl bovine somatotropin. J Anim Sci 68 (Suppl. 1):315.

McCusker RH, Cohick WS, Busby WH, Clemmons DR. 1990. Control of insulin-like growth factor binding protein 2 (IGF-BP2) levels in porcine sera by fasting and growth hormone status. J Anim Sci 68 (Suppl. 1):286.

Cohick WS, Slepetis R, Harkins M, Bauman DE. 1989. Effects of exogenous bovine somatotropin) on net flux rates of glucose and insulin across splanchnic tissues of lactating cows. FASEB J 3:A938.

Crooker BA, Bauman DE, Cohick WS, Harkins M. 1988. Effect of dose of exogenous bovine somatotropin on nutrient utilization by growing dairy heifers. J Anim Sci 66 (Suppl. 1):299.

Cohick WS, Slepetis R, Plaut K, Bauman DE. 1987. Effect of exogenous somatotropin on serum somatomedin-C and hepatic metabolism of lactating cows. J Anim Sci 65 (Suppl. 1):248.

Staples CR, Vicini JL, Cohick WS, Clark JH. 1985. Reliability of four markers estimating apparent nutrient digestibility coefficients of a silage-concentrate diet. J Dairy Sci 8 (Suppl.1):128.

Cohick WS, Vicini JL, McCutcheon SN, Staples CR, Clark JH, Bauman DE. 1984. Effects of dry matter intake and postruminal infusion of sodium caseinate on lactational performance and concentrations of hormones in plasma of lactating cows. J Dairy Sci 67 (Suppl.1):111.

Vicini JL, Cohick WS, McCutcheon SN, Staples CR, Clark JH, Bauman DE. 1984. Effects of $NaHCO_3$ supplementation and amount of dry matter consumed on production parameters and concentrations of hormones and metabolites in plasma of dairy cows. J Dairy Sci 67 (Suppl.1):108.

INVITED PRESENTATIONS AND SEMINARS:

March 2017 "Role of Nuclear IGFBP-3 in Intrinsic Apoptosis". Gordon Research Conference on IGF & Insulin System in Physiology & Disease. (Invited Speaker).

June 2106 "Alcohol Exposure in Utero alters Mammary Gland Development and Increases Carcinogen-induced Tumorigenesis in Adult Offspring". Annual Meeting of the Research Society on Alcoholism. New Orleans, LA. (Invited Symposium Speaker).

Feb 2016 "Effect of Alcohol Exposure in Utero on Mammary Tumorigenesis in Adulthood". RWJMS Basic Sciences Seminar Series, Rutgers NJ.

July 2015 "Effects of Insulin on Mammary Gland Differentiation and Milk Synthesis". Joint Annual Meeting of the American Society of Animal Science and American Dairy Science Association, Orlando FL (Invited symposium speaker).

June 2014 "Role for Nuclear IGFBP-3 in Intrinsic Apoptosis". Annual Meeting of the Endocrine Society, Chicago IL (Invited symposium speaker).

March 2013 "Insulin and IGF in the Mammary Gland Revisited". Midwest Meeting of the American Society of Animal Science, Des Moines, IA (Invited symposium speaker).

May 2013 "Fetal Alcohol Exposure Increases Mammary Tumorigenesis and Alters the IGF-Estradiol Axis". Second Annual Conference on Alcohol and Cancer Research, Breckenridge CO (Invited speaker).

Feb 2012 "A Rodent Model of Fetal Alcohol Exposure and Breast Cancer Risk". Department of Microbiology and Biochemistry Seminar Series, Rutgers.

May 2010 "Multiple Roles for IGF Binding Protein-3 in Regulating Cell Growth and Apoptosis in Mammary Epithelial Cells". Department of Animal Science, Michigan State University (Seminar).

July 2008 ASAS Centennial Presentation: "Lactation Biology for the 21st Century". Joint Annual Meeting of ASAS/ADSA. Indianapolis, IN. (Invited Symposium Speaker).

Oct 2007 "Bioterrorism and Ricin: Insights into Mechanisms of Action". 20th Anniversary Symposium, Biotechnology Center for Ag and the Environment, Rutgers.

April 2007 "A New Role for Constitutive IGF Binding Protein-3 in Apoptosis". Fifth Tripartite Workshop on Biotechnology and Bioenergy, East Brunswick, NJ

Jan 2007 "Hormones and the Mammary Gland: From Normal Biology to Breast Cancer". Cook College Undergraduate Leadership Retreat, New Brunswick, NJ

Nov 2005 "Regulation of mammary cell growth by the IGF system". Seminar presented to the Graduate Program in Nutritional Sciences, Rutgers University.

Oct 2005 "Role of IGF-I and IGF binding proteins in regulating physiology of the bovine mammary gland". Second Annual Lactation and Mammary Gland Biology Retreat, Bolton, VT

Sept 2005 "Role of IGF-I and IGF binding proteins in stromal-epithelial interactions in the bovine mammary gland." Seminar presented to Interdepartmental Graduate Program in Nutrition, Texas A & M University, College Station, TX

Oct 2003 "Role of IGFs and IGF binding proteins in the mammary gland". First Annual Breadloaf Conference on Mammary Gland Biology, Middlebury, VT

April 2003 "Regulation of bovine mammary cell growth by IGF- and IGF binding proteins: new roles for old proteins". Seminar at Nexia Biotechnologies, Montreal, Canada

April 2003 "Regulation of bovine mammary cell growth by IGF- and IGF binding proteins: new roles for old proteins". Seminar at University of Vermont, Department of Animal and Food Science, Burlington, VT

March 2003 "A new role for constitutive IGFBP-3 in apoptosis". Seminar at Monsanto Co, St. Louis, MO

Oct 2002 "Regulation of IGFBP-3 expression by stress-activated protein kinase cascades". Seminar at University of Connecticut, Department of Animal Science, Storrs, CT

July 2001 "Regulation of IGF signaling by IGF binding protein-3 in the mammary gland". Invited Symposium Speaker, Joint Annual Meeting of the American Society of Animal Science and the American Dairy Science Association, Indianapolis, IN

March 2001 "Molecular mechanisms regulating IGF binding protein-3 action in the mammary gland". Seminar at the University of Minnesota, Department of Veterinary Medicine and Pathology, St. Paul, MN

March 1998 "Modulation of IGF action by IGF binding proteins: mechanisms of action". Seminar at Virginia Polytechnic Institute, Molecular Biology Seminar Series, Blacksburg, VA

June 1997 "The role of IGFs and their binding proteins in lactation". Invited Symposium Speaker, Midwestern Section of the American Society of Animal Science and the American Dairy Science Association, Des Moines, IA

Dec 1997 "Modulation of IGF action by IGF binding proteins: mechanisms of action". Invited Speaker, International Workshop on Agricultural Biotechnology, University of Sao Paulo, Brazil

PROFESSIONAL MEMBERSHIPS *(current)*:
American Association for the Advancement of Science
American Association of Cancer Research
American Society of Animal Science
American Dairy Science Association
The Endocrine Society
International Society for Insulin-like Growth Factor Research

TEACHING RESPONSIBILITIES:

Current

Biotechnology 11:126:427 Methods and Applications in Molecular Biology (4 credits; undergraduate)

Responsible for 14 laboratories (5 hours each), 14 recitations (80-minutes each) and six 80-minute lectures. Fall semesters, 1996 to present. Course Coordinator since 2007. Enrollment: 55-60.

Biotechnology 11:126:110 Concepts and Issues in Biotechnology (1.5 credits; undergraduate)

Responsible for the topic of Animal Biotechnology, two lectures per year. Spring semesters, 1997 to present.

Past

Animal Science 11:067:142 Introduction to Animal Science (3 credits; undergraduate)

Three 80-min lectures on reproduction, pregnancy and lactation. Fall semesters, 1996-2008.

Animal Science 16:067:501 Animal Biotechnology (3 credits; graduate)

Full responsibility. Spring 2001.

Animal Science 16:067:502 Physiology of Reproduction (3 credits; graduate)

Two lecture/discussion sessions (each 3 hours with half lecture and half student presentations/discussion). Fall 2004; Fall 2014, 2016.

GRADUATE STUDENTS *(last known position in parentheses)*

Ketaki Datar	2016–present	MS Student; Microbiology & Molecular Genetics
Jennifer Skorupa	2014–present	MS Student, Endo & Animal Biosciences
Jennifer Hanke	2014–2017	MS Student, Endo & Animal Biosciences (Research Associate, Universal Cells, Seattle, WA)
Mariana Saboya	2013–present	PhD Student, Endo &Animal Biosciences
Hillary Stires	2010–2016	Ph.D. Student, Endo & Animal Biosciences (Postdoc, Georgetown Medical Center)
Kristie Butler	2011–2014	MS; Microbiology & Molecular Genetics (Law School)
Allyson Agostini-Dreyer	2009–2014	PhD; Nutritional Sciences (Clinical Research Assoc; Kindred Bio.)
Catina Crismale-Gann	2008–2014	PhD; Cell Biology & Neuroscience (Postdoc, NYU Medical Center)
Chao-Ting Wang	2007–2010	MS; Nutritional Sciences (Boehringer Ingelheim Pharmaceuticals)
Tiffany Polanco	2005–2011	PhD; Endo & Animal Biosciences; (Postdoc, University of Pittsburgh Cancer Institute)

Jushun Cheng	2005–2010	MS; Endo & Animal Biosciences (Ricerca Biosciences LLC)
Jeff Brandimarto	2006–2008	MS; Microbiology & Molecular Genetics (Research (Technician, University of Pennsylvania School of Medicine)
Brian Leibowitz	2002–2008	PhD; Endocrinology & Animal Biosciences (Research Associate, University of Pittsburgh Cancer Institute)
Jodie Fleming	2000–2006	PhD; Animal Sciences Program (Assistant Professor, NC Central University)
Usha Sivaprasad	1998–2004	PhD; Nutritional Sciences (Illuminated Research, Fort Worth TX)
Bojing Wang	1997–2001	MS; Animal Sciences (Pharmacopia; Princeton NJ)
Constance Grill	1996–2000	PhD; Nutritional Sciences (Novartis)

THESIS COMMITTEE MEMBER (advisor in parentheses):

Kate Annuziato	Toxicology (Cooper)	Ph.D.	In Progress
Naing Lin Shan	Microbio & Mol Genetics (Suh)	Ph.D.	In Progress
Shaima Amore Jabbar	Endo & Animal Biosci (Sarkar)	Ph.D.	Completed 10/2017
Rana Al-Baghdadi	Endo & Animal Biosci (Anthony)	Ph.D.	Completed 10/2016
Crystal Lewis	Toxicology (Zarbl)	Ph.D.	Completed 10/2015
Joseph Waller	Cell & Molecular Pharmacology (Suh)	PhD	Completed 10/2015
Jessica Verpeut	Endo & Animal Biosci (Bello)	Ph.D.	Completed 07/2015
Arpita Burke	Endo & Animal Biosci (Uzumcu)	MS	Completed 10/2014
Meredith Camp	Endo & Animal Biosci (Bagnell)	Ph.D.	Completed 10/2014
Leslie McCauliff	Nutritional Sciences (Storch)	Ph.D.	Completed 05/2014
Anwar Bin Umer	Microbio & Mol Genetics (Tumer)	Ph.D.	Completed 01/2014
Fred Lozy	Cell and Dev Biology (Karantza)	Ph.D.	Completed 01/2014
Changqing Zhang	Endo & Animal Biosci (Sarkar)	Ph.D.	Completed 10/2013
Deborah Esposito	Plant Biology (Raskin)	Ph.D.	Completed 05/2012
Tatiana Toro-Ramos	Nutritional Sciences (Hoffman)	Ph.D.	Completed 01/2012
Jia-Chi Chiou	Food Science (Tumer)	Ph.D.	Completed 10/2011
Christine Duncan	Endo & Animal Biosci (John-Alder)	Ph.D.	Completed 05/2011
Amy Frankshun	Endo & Animal Biosci (Bagnell)	Ph.D.	Completed 01/2011
Andrea Haulenbeek	Animal Sciences (Katz)	Ph.D.	Completed 10/2009
Jonathan Gorelick-Feldman	Plant Biology (Raskin)	Ph.D.	Completed 01/2009
Xiafang Liang	Nutritional Sciences (Brasaemle)	M.S.	Completed 10/2008
Marianne Baricevic	Molecular Biosciences (Tumer)	Ph.D.	Completed 05/2008
Chi-Tai Chang	Plant Science (Lawton)	Ph.D.	Completed 10/2007
Arti Verma	Nutritional Sciences (Thomas)	M.S.	Completed 10/2006
Jyotsna Yarida	Nutritional Sciences (Yang)	M.S.	Completed 01/2006
Wenbo Yan	Animal Sciences (Bagnell)	Ph.D.	Completed 08/2005
Modhavi Dokur	Animal Sciences (Sarkar)	Ph.D.	Completed 01/2005
Valerie Turan	Toxicology (P. Thomas)	Ph.D.	Completed 01/2005
Joesph Porter	Cell Biology & Neurosci (Denhardt)	Ph.D.	Completed 05/2004

Maria Trujillo	Nutritional Sciences (Fried)	Ph.D.	Completed 05/2004
Meredith Dolan	Nutritional Sciences (Hoffman)	M.S.	Completed 10/2003
Jennifer Newman	Animal Sciences (Bagnell)	M.S.	Completed 05/2002
Joan Lewis	Nutritional Sciences (Thomas)	Ph.D.	Completed 05/2002
Jennifer McDonough	Animal Sciences (Jesse)	M.S.	Completed 08/2000
Judy Lenhardt	Animal Sciences (Bagnell)	Ph.D.	Completed 10/1999

POSTDOCTORAL FELLOWS (current location in parentheses):

10/2009-04/2010	Madhavi Billam (Johnson & Johnson)
08/2004 to present	Amanda Jetzt (currently Research Associate)
02/2003-01/2005	Gwenelle Desury (Not known)
03/2000-03/2001	Constance Grill (Novartis, Bridgewater NJ)
05/1999-02/2000	Yukyung Park (Not known)

UNDERGRADUATE RESEARCH TRAINING:

Aarona Fong (Animal Sciences; 2017–present)
Michael Soldaker (Molecular Biology; 2017–present)
Serena Mertz (Animal Sciences; 2017–present)
Damon Li (Biotechnology; 2017–present)
Anjali Suman (Animal Science; 2016)
Shruthi Seetharaman (Biology; 2016)
Raveena Midha (Biotech; 2016–present)
Waling Benamer (Biotech; 2016–2017)
Elena Reitmeyer (Animal Sciences; 2014–2016)
Rebecca Riether (Biochemistry; 2014–2015)
Timothy Mazzie (Biotechnology; 2014)
Samantha Globerman (Animal Sciences; 2013–2015)
Ashleigh Bruno (Animal Sciences; 2013–2014)
Kathryn Sinko (Animal Sciences; 2013–2016)
Emily Stanton (Animal Sciences; 2013)
Cosimo Laterza (Animal Sciences; 2011–2013)
Chris Krum (Animal Sciences; 2009–2011)
Mark Aleynick (Biotechnology; 2009–2010)
Jillian Boden (Biology, 2008–2011)
Surein Theivakumar (Biotechnology; 2008–2010)
Jennifer Lach (Animal Sciences; 2008–2009)
Adip Pillai (Biotechnology; 2008–2010)
Timothy Kim (Biology; 2008)
Vivian Pereira (2008 RISE Summer Intern, Rutgers)
Alyssa Cocchiara (Nutritional Sciences; 2007–2010)
Jenny Mills (Animal Science; 2007–2008)
Lindsey Waxman (Cell Biology and Neurosciences; 2007–2008)
Irene Adu-Gyamfi (Bennett College, NC; 2007 RISE Summer Intern, Rutgers)
Karnik Patel (Biology; 2006–2007)
Meghan Malka (Cell Biology and Genetics; 2006–2007; Henry Rutgers Honors Scholar)

Rotem Naftalovich (Biotechnology; 2006–2007)
Andrea Sutter (Biotechnology; 2006–2007; G.H. Cook Scholar)
Katherine Bradbury (Biotechnology; 2005–2008; G.H. Cook Scholar)
Mohan Bolisetty (Biotechnology; 2004–2006; G.H. Cook Scholar)
Kristen Bodtmann (Animal Sciences; 2004–2006; G.H. Cook Scholar)
Kristen Wilems (Genetics; 2003–2004)
Jennifer Teabo (Animal Sciences; 2003)
David Kingery (Biochemistry; 2002–2003; G.H. Cook Scholar)
Niraj Patel (Biotechnology; 2001–2002)
Joseph Filigno (Animal Sciences; 2001–2002)
John Lalli (Biochemistry; 2000–2001)
Rebecca Tirado (University of Puerto Rico; Summer 2000)
Rathi Suresh (Biotechnology; 1999–2000)
Raul Casas (University of Puerto Rico; Summer 1999)
Pui Chi Wong (Animal Sciences; 1998–2001; G.H. Cook Scholar)
Patricia Adam (Biotechnology; 1998–1999; G.H. Cook Scholar)
Efrain Cancel (University of Puerto Rico; Summer 1998)
Teri England-Stanton (Animal Sciences; 1997–1998; G.H. Cook Scholar)
Adam Lazorchak (Biotechnology; 1997–2000)

PROFESSIONAL ACTIVITIES OUTSIDE OF RUTGERS:

Grant Panels and Reviews

External Reviewer, Academic Program Review, Dept. of Animal Science, University of Vermont, 2013

Panel Member, USDA National Research Competitive Grants Program, Animal Growth and Nutrient Utilization Program, November 2009, 2011; Washington, DC

Panel Member, Department of Defense Breast Cancer Research Program, Cell Biology, Postdoctoral Trainee Awards, April 2008; online panel

Panel Member, Department of Defense Breast Cancer Research Program, Cell Biology, August 2007; Alexandria, VA

Panel Member, Department of Defense Breast Cancer Research Program, Cell Biology, July 2006; Reston, VA

Panel Member, NIH P01 program project grant panel; March 2005; Washington, DC

Panel Member, Department of Defense Breast Cancer Research Program, Clinical and Experimental Therapeutics, August 2002, July 2003, July 2004, July 2005; Vienna, VA

Reviewer for Concept Awards, Dept of Defense Breast Cancer Research Program, 2004, 2005, 2006, 2007, 2008, 2009

Panel Member, USDA National Research Competitive Grants Program, Animal Growth and Nutrient Utilization Program, May 2003, Washington, DC

Ad hoc Reviewer, USDA/NRI Competitive Grants on Improving Animal Growth, 1996–2003

Ad hoc Reviewer, NSF, 2002-2004

Professional Society Activities

Editorial boards:

GH and IGF Research, Editorial Board, 2017–present

Current Frontiers in Cancer Research, 2011–present

American Journal of Physiology, Endocrinology and Metabolism, 2010–present

Endocrinology, 2006–2009

Journal of Animal Science, 1998–2004

Leadership positions:

Vice Chair, Gordon Research Conference on IGF & Insulin System in Physiology & Disease, March 2019 (co-chair in 2021)

Director, Production Division Council of ADSA, 2009–2012

President of Northeast American Dairy Science Association, 2003–2004

Vice-President of Northeast American Dairy Science Association, 2002–2003

Secretary-Treasurer of Northeast American Dairy Science Association, 2000–2002

Society involvement – *ADSA and ASAS:*

Member, Lactation Biology Committee, ADSA, 2009–2011 (Chair, 2010)

Committee to select "Cutting-Edge" abstracts for National ADSA/ASAS meeting, 2009

Selection Committee, Young Scientist Award, NE Branch of ADSA, 2007, 2008

Judge, Graduate Student Paper Competition, Joint Annual Meeting of ADSA/ASAS; 2007; 2008, 2009, 2012, 2014, 2015

Member, Lactation Biology Committee, American Dairy Science Assn, 1998–2002; Chair 2002

Society involvement – *The Endocrine Society:*

Session Chair: Yin and Yang of the IGF System as a Treatment Strategy, Annual Meeting of the Endocrine Society, Boston, MA, June 2011

Session Chair: Novel Aspects of IGF Action, Annual Meeting of the Endocrine Society, San Diego, CA, June 2010

Ad hoc Reviewer, Abstracts for Annual Meeting of the Endocrine Society, 2008, 2009, 2014, 2016, 2017

Session Co-Chair, IGFs and IGF Binding Proteins, Annual Meeting of the Endocrine Society, San Francisco, CA, June 2008

Judge, Trainee Poster Competition, Annual Meeting of the Endocrine Society, San Francisco, CA June 2008

Symposium Chair, Integrin/Growth Factor Signaling, Annual Meeting of the Endocrine Society, Philadelphia, PA, June 2003

Session Co-Chair, Insulin-like Growth Factor & IGF Binding Proteins, Annual Meeting of the Endocrine Society, San Francisco, CA, June 2002

Symposium Chair, Use of Mutagenesis to probe IGF Action, Annual Meeting of the Endocrine Society, Toronto, Canada, June 2000

Society involvement – *International IGF Society:*

Discussion Leader, Gordon Conference on IGFs in Physiology and Disease; Ventura CA, 2007

Reviewer, Abstracts for International IGF Meeting, Australia, 2004

Session Co-Chair, IGF Binding Protein Proteolysis, First Joint Symposium of the GH-IGF Research Societies, Boston MA, October 2002

***Ad hoc* reviewer:**

Endocrinology, Journal of Biological Chemistry, Journal of Cellular Physiology, Journal of Endocrinology, Cancer Research, Journal of Dairy Science, Journal of Nutrition, Transgenic Research, American Journal of Physiology, Intl Journal Biochemistry & Cell Biology and others

PROFESSIONAL ACTIVITIES WITHIN RUTGERS:

University

Member, Rutgers University Radiation Safety Committee, 2002–present

University Senate, Representative of Graduate School–New Brunswick, 2006–2009

Member, Search Committee for Director, Biotech Center for Ag and the Environment, 2001–2002

Panel Member, Douglass Science Career Exploration Day, October 2000

Workshop Leader, Biotechnology Conference for Talented Youth, 1999

School of Environmental and Biological Sciences

Vice Chair, SEBS Chair's Council, 2016–2018.

Member, SEBS Appointments and Promotion Committee, 2011–2014

Chair, Committee to review Excellence Fellowships for SEBS graduate applicants, 2010

Member, SEBS General Honors Program, Scholastic Standing Committee, 2008-2010

Member, Curriculum Committee, Undergraduate Program in Biotechnology, 1996 to present

Member, Rutgers University/Cook College Student Life and Services Committee, 2003–2006

Member, Search Committee for Faculty position in Department of Nutritional Sciences, 2003

Member, Rutgers University/Cook College Building and Grounds Committee, 2002–2005

Member, George H. Cook Honors Program Committee, 2001–2003

Member, Cook General Honors Program Committee, 2000–2003

Judge, Science Communication Award Posters, 1999

Member, Cook College Rules and Procedures Committee, 1998–2000

School of Graduate Studies ("Graduate School–New Brunswick" prior to July 2017)

Graduate School-New Brunswick Executive Council, 2013–2016

Member, Qualifying Exam Committee, Joint Graduate Programs in Molecular Biosciences, 2009, 2010

Member, Biological Sciences Area Committee, 2009–present

Program Director, Graduate Program in Endocrinology and Animal Biosciences, 2007–2014

Chair, Animal Sciences Graduate Admissions Committee, 1999–2007

Member, Animal Sciences Graduate Admissions Committee, 1998–2007; 2013–2014

Member, Curriculum Committee, Graduate Program in Nutritional Sciences, 2000–2005

Director (acting), Graduate Program in Animal Sciences, 2004 (January to September)

Member, Judicial Board of the Graduate School New Brunswick, 2002–2003

Department of Animal Sciences

Member, Undergraduate Curriculum Review Committee, 2009–present

Member, Departmental Strategic Planning Committee, 2007–2014

Chair, Search Committee for Tenure-Track hires (3 positions) in Animal Sciences, 2008–2009

Member, Search Committee for Tenure-track position, 2003

Member, Executive Advisory Committee, 2002–present

Member, Appointment Committee for departmental TAs and GAs; 2002–present

Organizer, Departmental weekly seminar series, Fall '02, Spring '03, Fall '07; '09

Chair, Search Committee for Endocrinology Senior Faculty position, 2001–2002

Chair, Search Committee for Endocrinology Junior Faculty position, 2001–2002

Member, Search Committee for Genomics Faculty position, 2001

Member, Search Committee for Transgenic Animal Faculty position, 2000