

Curriculum Vita for Tanya F Gressley

Department of Animal and Food Sciences

University of Delaware

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Education:

June 1999-August 2005: Ph.D., Dairy Science, Department of Dairy Science, University of Wisconsin, Madison, WI; dissertation title: *“Effects of post-ruminal fiber fermentation on digestion and nitrogen balance in lactating dairy cows”*

June 1997-May 1999: M.S., Animal Science, Department of Animal and Avian Sciences, University of Maryland, College Park, MD; thesis title: *“Reducing nitrogen losses from dairy farms through the use of improved animal management strategies and technologies”*

September 1993-May 1997: B.S., Animal Science, Department of Animal and Avian Sciences, University of Maryland, College Park, MD; Magna Cum Laude

Professional Experience:

September 2013-present: Associate Professor, Ruminant Biology, Department of Animal and Food Sciences, University of Delaware, Newark, DE

January 2007-August 2013: Assistant Professor, Ruminant Biology, Department of Animal and Food Sciences, University of Delaware, Newark, DE

September-December 2006: Postdoctoral Research Assistant, Department of Animal Science, University of Florida, Gainesville, FL; Advisor: Dr. Geoffrey E. Dahl

September 2005-September 2006: Postdoctoral Research Assistant, Department of Animal Science, University of Illinois, Urbana, IL; 2005-2006; Advisor: Dr. Geoffrey E. Dahl

June 1999-August 2005: Graduate Research Assistant, Department of Dairy Science, University of Wisconsin, Madison, WI; Advisor: Dr. Louis E. Armentano

June 1997-May 1999: Graduate Research Assistant, Department of Animal and Avian Science, University of Maryland, College Park, MD; Advisor: Dr. Richard A. Kohn

June 1996-May 1997: Undergraduate Researcher, Department of Animal and Avian Science, University of Maryland, College Park, MD; Advisor: Dr. Richard A. Kohn

Awards and Honors:

CANR Inclusive Excellence Award, 2019
Outstanding Professor Award, University of Delaware College of Agriculture and Natural Resources, 2017
Certificate of Appreciation for Excellence in Teaching, Agriculture College Council, CANR, 2015
Nominee, Food and Agricultural Sciences Excellence in College and University Awards Program, Association of Public and Land-grant Universities, 2013
Excellence in Undergraduate Academic Advising and Mentoring Award Nominee, University of Delaware Faculty Senate, 2013, 2014, 2017, 2018
Outstanding Advisor Award, University of Delaware College of Agriculture and Natural Resources, 2012
Advisor Appreciation Nominee, University of Delaware College of Agriculture and Natural Resources, 2009
Delaware Cooperative Extension Certificate of Achievement; Integration of Extension and Research Award given to Dairy Team, 2007
Gurine Gulsteen (Gjermundson) Research Fellowship, 2003-2004
Environmental Protection Agency STAR Graduate Fellowship, 1999-2002
University of Maryland Graduate School Fellowship, 1997-1998
First Place Poster Presentation, Department of Animal and Avian Science Symposium, University of Maryland, 1997
Winslow Regents Scholarship, 1993-1997
Phi Beta Kappa, 1996

Professional Society Memberships:

American Dairy Science Association, 1997-present
American Society of Animal Science, 2010-2020

Publications and Presentations:

Publications in Refereed Journals:

Lawrence, M, S. Polukis, A. M. Barnard, M. Miller, L. Kung, Jr., and **T. F. Gressley**. 2021. Evaluating the impact of *Lactobacillus animalis* and *Propionibacterium freudenreichii* on performance and rumen and fecal measures in lactating dairy cows. *J. Dairy Sci.* In press.
Neiderfer, K. M., A. M. Barnard, K. Z. Moyer, A. M. Trench, A. E. Taylor, S. K. Cronin, and **T. F. Gressley**. 2020. Effects of calcium carbonate, magnesium oxide, and encapsulated sodium bicarbonate on measures of postruminal fermentation. *J. Anim. Physiol. Anim. Nutr.* 104:802-811.
Gressley, T. F. and P. L. Ruegg. 2019. *Commentary*: Advancing completeness and transparency of reporting. *J. Dairy Sci.* 102:4757-4758.
Aylward, B. A., M. L. Clark, D. S. Galileo, A. M. Barnard, J. R. Wilson, E. Brannick, **T. F. Gressley**, M. E. Fecteau, W. C. Davis, and R. M. Dyer. 2019. Immune cell populations residing in mesenteric adipose depots and mesenteric lymph nodes of lean dairy cows. *J. Dairy Sci.* 102:3452-3468.

- Guiling, M., C. Merrill, L. Kung, Jr., **T. F. Gressley**, J. H. Harrison, and E. Block. 2017. Effect of source of supplemental fat in early lactation on productive performance and milk composition. *Prof. Anim. Sci.* 33:680-691.
- Gressley, T. F.**, K. A. Davison, J. Macies, C. Leonardi, M. M. McCarthy, L. M. Nemeč, and C. A. Rice. 2016. Effect of abomasal carbohydrates and live yeast on measures of postruminal fermentation. *J. Anim. Sci.* 94:284-296.
- McCarthy, M. M., M. A. Engstrom, E. Azem, and **T. F. Gressley**. 2013. The effect of an exogenous amylase on performance and total tract digestibility in lactating dairy cows fed a high by-product diet. *J. Dairy Sci.* 96:3075-3084.
- Hengst, B. A., L. M. Nemeč, R. R. Rastani, and **T. F. Gressley**. 2012. Effect of conventional and intensified milk replacer feeding programs on performance, vaccination response, and neutrophil mRNA levels of Holstein calves. *J. Dairy Sci.* 95:5182-5193.
- Nemeč, L. M., J. D. Richards, C. A. Atwell, D. E. Diaz, G. I. Zanton, and **T. F. Gressley**. 2012. Immune responses in lactating Holstein cows supplemented with Cu, Mn, and Zn as sulfates or methionine hydroxy analogue chelates. *J. Dairy Sci.* 95:4568-4577.
- Mainardi, S. R., B. A. Hengst, S. J. Nebzydoski, L. M. Nemeč, and **T. F. Gressley**. 2011. Effects of abomasal oligofructose on blood and feces of Holstein steers. *J. Anim. Sci.* 89:2510-2517.
- Gressley, T. F.**, M. B. Hall, and L. E. Armentano. 2011. Ruminant nutrition symposium: Productivity and health responses to hindgut acidosis in ruminants. *J. Anim. Sci.* 89:1120-1130.
- Nebzydoski, S. J., S. Pozzo, L. M. Nemeč, M. K. Rankin, and **T. F. Gressley**. 2010. The effect of dexamethasone on clock gene mRNA levels in bovine neutrophils and lymphocytes. *Vet. Immunol. Immunopathol.* 138:183-192.
- Brickner, A. E., J. A. A. Pires, **T. F. Gressley**, and R. R. Grummer. 2009. Effects of abomasal lipid infusion on liver triglyceride accumulation and adipose lipolysis during fatty liver induction in dairy cows. *J. Dairy Sci.* 92:4954-4961.
- Velasco, J. M., E. D. Reid, K. K. Fried, **T. F. Gressley**, R. L. Wallace, and G. E. Dahl. 2008. Short-day photoperiod increases milk yield in cows with a reduced dry period length. *J. Dairy Sci.* 91: 3467-3473.
- Mikolayunas, C. M., D. L. Thomas, G. E. Dahl, **T. F. Gressley**, and Y.M. Berger. 2008. Effect of prepartum photoperiod on milk production and prolactin concentration of dairy ewes. *J. Dairy Sci.* 91:85-90.
- Rastani, R. R., N. Silva Del Rio, **T. F. Gressley**, G. E. Dahl, and R. R. Grummer. 2007. Effects of increasing milking frequency during the last 28 days of gestation on milk production, dry matter intake, and energy balance in dairy cows. *J. Dairy Sci.* 90: 1729-1739.
- Gressley, T. F.**, and L. E. Armentano. 2007. Effects of low rumen degradable protein or abomasal fructan infusion on diet digestibility and urinary nitrogen excretion in lactating dairy cows. *J. Dairy Sci.* 90:1340-1353.
- Gressley, T. F.**, S. M. Reynal, J. J. Olmos Colmenero, G. A. Broderick, and L. E. Armentano. 2006. Development of a tool to insert abomasal infusion lines into dairy cows. *J. Dairy Sci.* 89:3965-3967.
- Gressley, T. F.**, and L. E. Armentano. 2005. Effect of abomasal pectin infusion on digestion and nitrogen balance in lactating dairy cows. *J. Dairy Sci.* 88:4028-4044.

- ***Dunlap, T. F.**, R. A. Kohn, L. W. Douglass, and R. A. Erdman. 2000. Diets deficient in rumen undegraded protein did not depress milk production. *J. Dairy Sci.* 83:1806-1812.
- ***Dunlap, T. F.**, R. A. Kohn, G. E. Dahl, M. Varner, and R. A. Erdman. 2000. The impact of somatotropin, milking frequency, and photoperiod on dairy farm nutrient flows. *J. Dairy Sci.* 83:968-976.
- Kohn, R. A., and ***T. F. Dunlap**. 1998. Calculation of the buffering capacity of bicarbonate in the rumen and in vitro. *J. Anim. Sci.* 1998. 76:1702-1709.
- *Indicates previous surname

Book Chapter:

- Gressley, T. F.** 2020. Sub-acute ruminal acidosis in dairy cattle. Pages 61-65 in *Rumen Health Compendium*. L. O. Tedeschi, and T. G. Nagaraja, eds. Texas A&M University, College Station, TX.
- Gressley, T. F.** 2012. Bioactive agents of milk/dairy products. *In Encyclopedia of Biotechnology in Agriculture and Food*. Taylor and Francis: New York, Published online: 05 Jan 2012; 1-3.

Papers Presented with Abstract at Professional Meetings:

- Smith, M. S, S. K. Cronin, J. Mateos, D. Martinez del Olmo, F. Valdez, and T. F. Gressley. 2020. Evaluating plasma methionine in response to feeding three rumen-protected methionine products. *J. Dairy Sci.* 103 (Suppl. 1): 304.
- Gressley, T. F., I. C. Shivas, H. Leclerc. 2018. Milk and components response of dairy cows when supplemented with a rumen protected B vitamins blend during heat stress. *J. Dairy Sci.* 101 (E-Suppl. 2):306.
- Conklin, M., S. Polukis, A. Barnard, K. Nestor, L. Kung, Jr., and T. F. Gressley. 2018. Evaluating the impact of Bovamine on performance, nutrient digestibility, and digestive function in lactating cows. *J. Dairy Sci.* 101 (E-Suppl. 2):110.
- Barnard, A. M., M. K. Conklin, K. Estes, B. A. Barton, C. Zimmerman, and T. F. Gressley. 2018. Assessing three levels of a rumen-protected methionine prototype on dairy cow performance. *J. Dairy Sci.* 101 (E-Suppl. 2):90.
- Barnard, A. M, M. Conklin, B. Aylward, R. Dyer, R. Arsenault, and T. F. Gressley. 2018. Evaluating the effects of a rumen and hindgut starch challenge on the inflammatory immune response in Holstein cows. *J. Dairy Sci.* 101 (E-Suppl. 2): 16.
- Polukis, S., A. Barnard, **T. Gressley**, N. Lobos, K. Griswold, and L. Kung, Jr. 2017. Effects of a rumen-protected lysine product as a source of metabolizable lysine for high-producing dairy compared with porcine blood meal. *J. Dairy Sci.* 100 (E-Suppl. 1): 98
- Barnard, A. M, B. A. Barton, C. A. Zimmerman, R. S. Ordway, and **T. F. Gressley**. 2016. Impact of three rumen-protected lysine prototypes on dairy cow performance, milk composition, and milk casein. *J. Dairy Sci.* 99 (E-Suppl. 1): 764.
- Barnard, A. M, B. A. Barton, C. A. Zimmerman, R. S. Ordway, and **T. F. Gressley**. 2016. Comparison of three levels of a rumen-protected methionine product on performance of lactating dairy cows. *J. Dairy Sci.* 99 (E-Suppl. 1): 756.
- Barnard, A. M, B. A. Barton, C. A. Zimmerman, R. S. Ordway, and **T. F. Gressley**. 2016. Impact of a rumen-protected methionine prototype on dairy cow performance, milk composition, and milk casein. *J. Dairy Sci.* 99 (E-Suppl. 1): 754.

- Barnard, A. M., H. Jensen, and **T. F. Gressley**. 2016. Relationship of days in milk to nutrient digestibility in lactating multiparous cows. *J. Dairy Sci.* 99 (E-Suppl. 1): 712.
- Barnard, A. M., R. Nebenhaus, R. M. Dyer, and **T. F. Gressley**. 2014. The effects of CO₂ and HEPES buffer on in-vitro chemotaxis assays of bovine neutrophils. *J. Dairy Sci.* 97 (E-Suppl. 1):183.
- Barnard, A. M., R. Nebenhaus, S. Polukis, and T. F. Gressley. 2014. Effects of CO₂ and filter pore size on bovine neutrophil chemotaxis. *J. Dairy Sci.* 97 (E-Suppl. 1):418.
- Gressley, T. F.**, M. J. de Veth, N. K. Diana, and E. Mackey. 2012. Evaluating in situ procedures for testing lipid encapsulated products – lysine as an example. *J. Dairy Sci.* 95(Suppl. 2):353.
- McCarthy, M. M., M. A. Engstrom, E. Azem, and **T. F. Gressley**. 2011. The effect of an exogenous amylase on performance and total tract digestibility in lactating dairy cows. *J. Dairy Sci.* 94(E-Suppl.1):207.
- Kurman, C. A., M. McCarthy, L. M. Nemeč, and **T. F. Gressley**. 2011. Serum shock did not synchronize clock gene expression in primary bovine hepatocyte cultures. *J. Dairy Sci.* 94(E-Suppl.1):597.
- Davison, K., R. L. Hougentogler, C. Leonardi, M. M. McCarthy, L. M. Nemeč, and **T. F. Gressley**. 2011. Effect of post-ruminal *Saccharomyces boulardii* on fecal parameters and nutrient digestibility in Holstein steers given abomasal oligofructose. *J. Dairy Sci.* 94(E-Suppl.1):364.
- Nemeč L.M., C. Wu, S. Cordova, K. Davison, and **T. F. Gressley**. 2010. The effect of thymol on intracellular and extracellular reactive oxygen species production by bovine neutrophils. *J. Dairy Sci.* 93(E-Suppl. 1):313.
- Nemeč, L.M., J. D. Richards, C. Atwell, D. E. Diaz, and **T. F. Gressley**. 2010. The effect of form of trace mineral supplements on performance, neutrophil function and vaccination response in lactating Holstein cows. *J. Dairy Sci.* 93(E-Suppl. 1):176.
- Hengst, B. A., L. M. Nemeč, R. R. Rastani, and **T. F. Gressley**. 2010. Measurement of adaptive and innate immune function in calves raised under traditional and accelerated growth regimens. *J. Dairy Sci.* 93(E-Suppl. 1):418.
- Mainardi, S. R., B. A. Hengst, S. J. Nebzydoski, L. M. Nemeč, and **T. F. Gressley**. 2010. Abomasal oligofructose infusion induced hindgut acidosis in Holstein steers. *J. Dairy Sci.* 93(E-Suppl. 1):722.
- Wickens, C., and **T. Gressley**. 2010. Identification and pursuit of instructional grants to support development of undergraduate equine courses. Presented at National Association of Equine Affiliated Academics, Cazenovia, NY, 7/27.
- Pozzo, S. S., M. K. Rankin, and **T. F. Gressley**. 2008. Dexamethasone administration increased bovine lymphocyte clock gene expression *in vitro* and *in vivo*. *J. Dairy Sci.* 91(E-Suppl. 1):3.
- Nebzydoski, S. J., L. M. Nemeč, and **T. F. Gressley**. 2008. The effect of the synthetic glucocorticoid dexamethasone on clock gene expression in bovine neutrophils. *J. Dairy Sci.* 91(E-Suppl. 1):161.
- Velasco, J. M., K. K. Fried, **T. F. Gressley**, E. D. Reid, T. C. Hausman, and G. E. Dahl. 2007. Reducing freestall availability without limiting feed access during the dry period does not affect subsequent milk yield. *J. Dairy Sci.* 90(Suppl. 1):231.

- Gressley, T. F.**, K. K. Fried, J. M. Velasco, E. D. Reid, T. C. Hausman, K. M. Moyes, J. L. Salak-Johnson, and G. E. Dahl. 2007. Effects of reduced freestall access during the dry period upon cellular immune function of dairy cows. *J. Dairy Sci.* 90(Suppl. 1):369.
- Gressley, T. F.**, E. E. Connor, and G. E. Dahl. 2006. Liver expression of the clock gene *TIMELESS* is reduced by long day photoperiod in dairy steers. *J. Dairy Sci.* 89(Suppl. 1):289.
- Gressley, T. F.**, and L. E. Armentano. 2006. Reduced rumen degradable protein (RDP) and abomasal inulin reduce diet digestibility and urinary nitrogen in lactating dairy cows. *J. Dairy Sci.* 89(Suppl. 1):403.
- Kulick, A. E., **T. F. Gressley**, J. A. A. Pires, and R. R. Grummer. 2006. Effects of abomasal lipid infusion on liver triglyceride accumulation during fatty liver induction. *J. Dairy Sci.* 89(Suppl. 1):266.
- Velasco, J. M., E. D. Reid, K. E. Karvetski, **T. F. Gressley**, R. L. Wallace, and G. E. Dahl. 2006. Short day photoperiod increases milk yield in cows with a reduced dry period length. *J. Dairy Sci.* 89(Suppl. 1):147.
- Gressley, T. F.**, and L. E. Armentano. 2005. Effect of abomasal pectin infusion on digestion and nitrogen balance in dairy cows. *J. Dairy Sci.* 88(Suppl. 1):90.
- Rastani, R. R., N. Silva del Rio, **T. F. Gressley**, G. E. Dahl, and R. R. Grummer. 2005. Effects of milking frequency prepartum on postpartum milk production, milk composition and dry matter intake in dairy cows. *J. Dairy Sci.* 88(Suppl. 1):286.
- ***Dunlap, T. F.**, and L. E. Armentano. 2003. Effect of abomasal pectin infusion on digestion and nitrogen balance in dairy cows. *J. Dairy Sci.* 86(Suppl. 1):58.
- ***Dunlap, T. F.**, G. Shook, and L. Armentano. 2001. A preliminary evaluation of genetic and dietary factors affecting urinary phosphorus concentration in dairy cows. Fifth Annual Science to Achieve Results (STAR) Grad Fellowship Conference. Silver Spring, MD, July 17-18, 2001.
- ***Dunlap, T. F.**, R. A. Kohn, and R. A. Erdman. 1999. Diets deficient in rumen undegraded protein did not depress milk production. *J. Dairy Sci.* 82(Suppl. 1):95.
- ***Dunlap, T. F.**, R. A. Kohn, G. E. Dahl, and R. A. Erdman. 1998. The impact of somatotropin, milking frequency, and photoperiod on dairy farm nitrogen flows. *J. Dairy Sci.* 81(Suppl. 1):257.
- ***Dunlap, T. F.**, R. A. Kohn, and K. F. Kalscheur. 1997. Effect of animal grouping strategies on nutrient losses from the dairy farm. *J. Dairy Sci.* 80(Suppl. 1):246.
- *Indicates previous surname

Invited Presentations:

- Gressley, T. F.** Modes of action for effect of diet on gut health. Keynote speaker for Phibro consultant dinner in association with the High Plains Nutrition Conference. Amarillo, TX, March 3, 2020.
- Gressley, T. F.** Impact of diet on rumen and intestinal health. Pacific Northwest Animal Nutrition Conference. Boise, ID, January 13, 2020.
- Gressley, T. F.** 2 presentations: Key features of a rumen protected amino acid product; Product development validation. Ruminant essentialities by Kemin: The next level in nutrition. Verona, Italy, October 22, 2019.

- Gressley, T. F.** 2 presentations: Key features of a rumen protected amino acid product; Product development validation. Ruminant essentialities by Kemin: The next level in nutrition. La Coruna, Spain, October 18, 2019.
- Gressley, T. F.** 2 presentations: Product development validation: protection technology; Product development validation: final output. Ruminant essentialities by Kemin: The next level in nutrition. Athens, Greece, October 16, 2019.
- Gressley, T. F.** 2 presentations: Key features of a rumen protected product; Selection criteria for the most appropriate rumen protected amino acid according to our objectives and needs. Ruminant essentialities by Kemin: The next level in nutrition. Athens, Greece, October 15, 2019.
- Gressley, T. F.** Rumen acidosis vs. large intestine acidosis. American Association of Bovine Practitioners. Preconference seminar: Gut health – the new paradigm in production animal health. St. Louis, MO, September 11, 2019.
- Gressley, T. F.** The role of probiotics and direct fed microbials on rumen and gut health. American Association of Bovine Practitioners. Preconference seminar: Gut health – the new paradigm in production animal health. St. Louis, MO, September 11, 2019.
- Gressley, T. F.** Assessment of bioavailability of rumen protected amino acid products. Congreso Internacional ANEMBE de Medicina Bovina. Sevilla, Spain. May 24, 2019.
- Gressley, T. F.** Potential for gut-acting supplements to enhance dairy cow health. Congreso Internacional ANEMBE de Medicina Bovina. Sevilla, Spain. May 24, 2019.
- Gressley, T. F.** Inflammation and ruminal acidosis. Congreso Internacional ANEMBE de Medicina Bovina. Sevilla, Spain. May 24, 2019.
- Gressley, T. F.** Rumen Acidosis vs. Large Intestine Acidosis. Is one more important than the other? Southwest Nutrition Conference. Chandler, AZ. February 7, 2019.
- Gressley, T. F.** Intestinal immunity and impact of high grain feeding. American Dairy Science Association 35th Discover Conference – Effects of Stress on Health and Production in Dairy Cows. Itasca, IL. October 31, 2018
- Gressley, T. F.** Immunity and ruminal acidosis/laminitis. Cornell Nutrition Conference Pre-Conference Symposium. Syracuse, NY. October 17, 2017
- Gressley, T. F.** Tips to tackle the challenges to immunity around the transition period. 2017 International Dairy New Technology Conference. Taian, China. July 14, 2017.
- Gressley, T. F.** Potential for feeding program to impact gut health and inflammation in dairy cattle. 2017 California Animal Nutrition Conference. Fresno, CA. May 10, 2017.
- Gressley, T. F.** Minerals that play a role in transition cow nutrition. 2016 Brown's Feeds March Dairy Meetings. March 1, 2016, Elliptsburg, PA; March 2, 2016, Lenhartsville, PA; March 3, 2016, East Earl, PA.
- Gressley, T. F.** Effects of subacute ruminal acidosis and excessive hindgut fermentation on performance and health. Novos Enfoques na Producao e Reproducao de Bovinos. Uberlandia, Minas Gerais, Brazil. March 20, 2015.
- Gressley, T. F.** Potential for gut-acting feed supplements to enhance dairy cow health. Novos Enfoques na Producao e Reproducao de Bovinos. Uberlandia, Minas Gerais, Brazil. March 19, 2015.
- Gressley, T. F.** Sub-acute ruminal acidosis: effects on the cow and her gut. Western Canadian Dairy Seminar. Red Deer, Alberta, Canada. March 12, 2015.

- Gressley, T. F.** Potential for feed supplements to enhance dairy cow health. Pacific Northwest Animal Nutrition Conference. Vancouver, British Columbia, Canada. October 9, 2014.
- Gressley, T. F.** Water Quality Standards and Management Considerations for Dairy Herds. 16th Annual MAC Regional Dairy Extension Inservice Training Program. Wilkes-Barre, PA. May 21, 2014.
- Gressley, T. F.** Immunity and digestion. Tri-state Dairy Nutrition Conference, Pre-Conference Symposium. Ft. Wayne, IN. April 15, 2014.
- Gressley, T. F.** Effects of excessive hindgut fermentation in dairy cattle. University of Maryland Graduate Seminar. College Park, MD. March 11, 2014.
- Gressley, T. F.** Inflammatory responses to sub-acute ruminal acidosis (SARA). 25th Annual Florida Ruminant Nutrition Symposium. Gainesville, FL. February 4, 2014.
- Gressley, T. F.** The role of trace mineral nutrition on immunity and health of dairy cows. 11th annual Mid-Atlantic Nutrition Conference. Pre-Conference Symposium. Timonium, MD. March 27, 2013.
- Gressley, T. F.** Hindgut fermentation in dairy cattle: how much is too much? Penn State Dairy and Animal Science Department Seminar. State College, PA. April 20, 2012.
- Gressley, T. F., M. B. Hall, and L. E. Armentano.** Animal productivity and health responses to hind-gut acidosis. *J. Dairy Sci.* 93 (E-Suppl. 1):875. Denver, CO. July 15, 2010.
- Gressley, T. F.** “Strategies for trace mineral supplementation”. Penn State Annual Dairy Cattle Nutrition Workshop. Grantville, PA. November 12, 2009.
- Gressley, T. F.** 7th annual Mid-Atlantic Nutrition Conference. “Zinc, copper, manganese, and selenium in dairy cattle rations”. Timonium, MD. March 26, 2009.
- Gressley, T. F.** Research Presentation to Novus International. “Effects of zinc, copper, manganese, and selenium on immune function”. St. Louis, MO. June 25, 2008.
- Gressley, T. F.** Rutgers University Animal Sciences Graduate Seminar. “Clock gene expression in bovine leukocytes”. Rutgers, NJ. September 21, 2007.

Presentations, Other:

- Gressley, T. F.** Maximizing water consumption and quality to maximize milk. 2014 Delaware Dairy Day. Hartley, DE. February 20, 2014.
- Gressley, T. F.** Use of PhotoStory for a Capstone Final Project. University of Delaware Summer Faculty Institute. June 3, 2010.
- Gressley, T. F.** 2008 Delaware Dairy Day. “Managing the transition cow: recent research and recommendations”. Harrington, DE. January 9, 2008.

Conference Proceedings:

- Gressley, T. F.** Assessment of bioavailability of rumen protected amino acid products. Congreso Internacional ANEMBE de Medicina Bovina. Sevilla, Spain. May 24, 2019.
- Gressley, T. F.** Potential for gut-acting supplements to enhance dairy cow health. Congreso Internacional ANEMBE de Medicina Bovina. Sevilla, Spain. May 24, 2019.
- Gressley, T. F.** Inflammation and ruminal acidosis. Congreso Internacional ANEMBE de Medicina Bovina. Sevilla, Spain. May 24, 2019.
- Gressley, T. F.** Rumen Acidosis vs. Large Intestine Acidosis. Is one more important than the other? Southwest Nutrition Conference. Chandler, AZ. February 7, 2019.

- Gressley, T. F.** Immunity and sub-acute ruminal acidosis. Cornell Nutrition Conference Pre-Conference Symposium. Syracuse, NY. October 17, 2017.
- Gressley, T. F.** Potential for feeding program to impact gut health and inflammation in dairy cattle. Proceedings of the 2017 California Animal Nutrition Conference. Fresno, CA. May 10, 2017.
- Gressley, T. F.** 2015. Sub-acute ruminal acidosis: effects on the cow and her gut. Proceedings of the Western Canadian Dairy Seminar. Red Deer, Alberta, Canada. March 12, 2015.
- Gressley, T. F.** 2014. Potential for feed supplements to enhance dairy cow health. Proceedings of the Pacific Northwest Animal Nutrition Conference. Vancouver, British Columbia. October 9, 2014.
- Gressley, T. F.** 2014. Inflammatory responses to sub-acute ruminal acidosis (SARA). Proceedings of the 25th annual Florida Ruminant Nutrition Symposium. Gainesville, FL. February 4-5, 2014.
- Gressley, T. F.** 2009. Zinc, copper, manganese, and selenium in dairy cattle rations. Proceedings of the 7th annual Mid-Atlantic Nutrition Conference. Timonium, MD. March 25-26, 2009.
- Gressley, T. F.** 2008. Managing the transition cow: recent research and recommendations. Proceedings of 2008 Delmarva Dairy Day. Harrington, DE. January 9, 2008.

Publications – Other:

- Gressley, T. F.** 2012. Intensified milk replacer feeding programs. Delaware Dairy Newsletter. Summer 2012: pages 2-3.
- Gressley, T. F.** 2010. Chromium in dairy cattle diets. Delaware Dairy Newsletter. Spring 2010: pages 2-3.
- Gressley, T. F.** 2009. Zinc, copper, manganese, and selenium in dairy cattle rations. Delaware Dairy Newsletter. Summer 2009: pages 4-8.
- Gressley, T. F.** 2008. Update from the 2008 National Mastitis Council meeting. Delaware Dairy Newsletter. Summer 2008: pages 4-5.
- Gressley, T. F.** 2008. Managing the transition cow: recent research and recommendations. Delaware Dairy Newsletter. Spring 2008: pages 1-7.
- Gressley, T. F.** 2007. Managing forage supplies and diets in drought conditions. Delaware Dairy Newsletter. Fall/Winter 2007: page 2.
- Gressley, T. F.,** and G. E. Dahl. 2007. Reduced freestall availability during the dry period did not impact performance. Delaware Dairy Newsletter. Fall/Winter 2007: pages 5-7.
- Gressley, T. F.,** K. E. Karvetski, J. M. Velasco, E. D. Reid, and G. E. Dahl. 2007. Reduced freestall availability during the dry period did not impact performance. 2008 Illinois Dairy Report: pages 62-64.

Advisor of Past Graduate Students:

- MacKenzie Conklin, M.S. candidate, successfully defended July 2018
Thesis title: Evaluating the impact of Bovamine on performance, nutrient digestibility, and digestive function in lactating dairy cows
- Amanda Barnard: M.S. candidate, successfully defended February 2015
Thesis title: Evaluating IgY Recovery in Rumen Fluid and its Potential Role in Performance and Neutrophil Function in Lactating Holstein Cows

Maris McCarthy: M.S. candidate, successfully defended May 2011

Thesis title: The effect of an endogenous amylase on performance and total tract digestibility in lactating dairy cows

Laura Nemec: M.S. candidate, successfully defended May 2010

Thesis title: The bioavailability of zinc and copper in Holstein steers

Sarah Nebzydoski: M.S. candidate, successfully defended August 2009

Thesis title: The effect of the glucocorticoid dexamethasone on clock gene expression in bovine neutrophils and lymphocytes

Undergraduate Senior Thesis, Advisor:

Kayla Neiderfer, Senior Thesis 2017

Thesis title: Impact of different buffers on measures of post-ruminal fermentation

Regan Nebenhaus, Senior Thesis 2014

Thesis title: The effect of CO₂ and HEPES on bovine neutrophil migratory function

Emily Mackey, Honors Senior Thesis 2013

Thesis title: Effects of subacute ruminal acidosis on gene expression patterns in rumen mucosa of dairy cattle

Christa Kurman: Senior Thesis 2012

Thesis title: Serum Shock did not Synchronize Clock Gene Expression in Primary Bovine Hepatocyte Culture

Jasmine Macies: Senior Thesis 2012

Thesis title: Induction of Post Ruminal Acidosis via Abomasal Infusion of Fermentable Carbohydrates

Brittany Hengst: Honors Senior Thesis 2010

Thesis title: Measurement of Adaptive and Innate Immune Function in Calves Raised Under Traditional and Accelerated Growth Regimens

Kerrie Davison: Senior Thesis 2010

Thesis title: The Potential for Abomasally Infused *S. boulardii* to Alleviate Large Intestinal Acidosis

Sarah Mainardi: Senior Thesis 2009

Thesis title: Can Abomasal Oligofructose Infusions be used as a Model to Study Post-ruminal Acidosis?

Sharon Pozzo: Honors Senior Thesis 2008

Thesis title: Impact of Dexamethasone Administration, *In Vitro* and *In Vivo*, on Clock Gene Expression in Bovine Lymphocytes

Courses Taught:

ANFS-101-080, Animals, Science, and Society Honors add-on meeting

ANFS 111, Animal and Food Science Lab, Milk Quality Rotation

ANFS 112, Animal Handling Lab, 1 credit

ANFS-404, Dairy Production Lecture and Lab, Capstone and Discovery Learning, 4 credits

ANFS-442/642, Lactational Physiology, 3 credits

Leadership Committees – National:

Journal of Dairy Science - Physiology Section Editor, January 2015-November 2015; Senior Section Editor of Behavior, Health and Welfare, November 2015-2020
Kemin Rumen Protected Amino Acids Advisory Board, 2018-2019
ADSA Alltech, Inc. Graduate Student Paper Publication Award Selection Committee, Chair, 2013, 2019
ADSA Student Affiliate Division Annual Reports Judging Team, Member, 2019
ADSA Graduate Student Production Oral Competition Committee, Member, 2010-2011; Chair, 2012
ADSA Graduate Student Production Poster Competition Committee, Member, 2010-2011
ADSA Alltech, Inc. Graduate Student Paper Publication Award Selection Committee, Member, 2011
Journal of Animal Science Editorial Board, June 2010-present (appointment ends May 2014)
Journal of Dairy Science Editorial Board, Member, April 2008-March 2014

Other Service – National:

2020 USDA- NIFA – Federal Grant Peer Review Panelist – Food, Agricultural, Natural Resources, and Human Sciences Higher Education Grant Programs, 2/18-2/20/20
ADSA Annual Meeting Session Chair, Animal Health 3: Gastrointestinal Health, Cincinnati, 6/26/19
JAM Session Chair, Animal Health: Swine and Other Species, New Orleans, LA, 7/13/11
JAM Session Chair, Animal Health: Immunity, Probiotics and Health Status, Denver, CO, 7/12/10
USAID Middle East Regional Cooperation Program grant review panel, 12/4/12, 11/19/13

Leadership Committees – Regional:

NC-2040, Metabolic Relationships in Supply of Nutrients for Lactating Cows, Member, 2016-present, primary in charge of rewrite 2018
NE-1048, Mastitis Resistance to Enhance Dairy Food Safety, Secretary, VP, President, 2012-2015
Mid-Atlantic Nutrition Conference, Overall Program Chair (2015-2016), General Session Chair (2013-2014, 2015-2016), Dairy Session Chair (2009-2010), Dairy Planning Committee Member (2007-2008; 2012-2013; 2015-2016; 2018-2019)
Northeast American Dairy Science Association, Student Presentation Judge, 2008-2009

Leadership Committees – University:

Chief Diversity Officer Search Committee, Member, Fall 2019
Institutional Animal Care and Use Committee, Member, 2015-present
Distinguished Scholar Selection Committee, Spring 2019
Faculty Senate Research Committee, Member, 2014-2015; Chair, 2015-2018
University Research Council, Member 2015-2018
Executive Council for Diversity, Member, 2015-2017
Models for the New American Research University Strategic Planning Group, Member of Academic Organization Subgroup, 2014-2015
Faculty Senate Committee on Committees and Nominations, Member, 2010-2014

Leadership Committees – College:

CANR Seed Grant Review Panel, Summer 2019
CANR Chief Diversity Advocate, 2015-2018
CANR Diversity Committee, Chair, 2015-2018
AGcelerate Enrichment Program, Faculty co-advisor, 2013-2019
Farm Safety Committee, Member, 2017-present
Emergency Animal Management Committee, 2018-present
Dean Review Committee, Member, 2017-2018
Sigma Alpha Sorority, co-director, 2014-present
MANRRS Club, Faculty Advisor, 2009-2014; 2016-present
Promotion and Tenure Committee, Member, 2013-2014, 2015-2017
CANR Research Advisory Committee, Member, 2013-2014
College of CANR Livestock Planning Committee, Member, 2007-2012
Dairy Team visiting Delaware Dairies, Member, 2007-2010

Leadership Committees – Department:

CT Faculty Position Search Committee, Chair, Fall 2019-Spring 2020
Business Administrator II Search Committee, 2019
Physiology and Nutritional Immunology Search Committee, Member, 2017-2018
Promotion and Tenure Committee, Chair, 2016-2017
Department Chair Search Committee, Member, 2014
Graduate Advisory Committee, Member, 2007-2011, 2014-2019; Chair, 2020-present
Equine Search Committee, Member, 2008-2009, Co-Chair, 2014
Courses and Curriculum Committee, Member 2013-2014
Integrated Position Search Committee, Member, 2013
Veterinary Pathologist Search Committee, Member, 2011
Departmental Promotion and Tenure Committee, Member, 2007-2008
Departmental Capstone Planning Committee, Chair, 2007-2008