



The State University
of New York

Office of the Chancellor

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MEMORANDUM

June 2, 2026

TO: Members of the Board of Trustees

FROM: Dr. John B. King Jr., Chancellor

SUBJECT: Appointment of Dr. Jessica McArt as Dean of the New York State College of Veterinary Medicine at Cornell University

Action Requested

The proposed resolution approves the appointment of Dr. Jessica McArt as Dean of the New York State College of Veterinary Medicine at Cornell University.

Resolution

I recommend that the Board of Trustees adopt the following resolution:

Whereas pursuant to Education Law 355(1)(e), the appointment of the head of each statutory or contract college (including the New York State College of Veterinary Medicine at Cornell University) by the governing body of each such institution requires the approval of the State University of New York Board of Trustees; now, therefore, be it

Resolved that Dr. Jessica McArt be, and hereby is, appointed Dean of the New York State College of Veterinary Medicine at Cornell University, at an annual state salary of \$200,000, effective July 15, 2026, be, and hereby is, approved.

Background

Dr. Jessica McArt currently serves as Professor and Chair of the Department of Population Medicine and Diagnostic Sciences in the College of Veterinary Medicine at Cornell University. A board-certified diplomate of the American Board of Veterinary Practitioners (Dairy Practice), she is an internationally recognized leader in dairy cattle health, applied epidemiology, and transition cow disease research.

Dr. McArt currently serves as Editor-in-Chief of *JDS Communications* and has received numerous honors, including the Zoetis Award for Veterinary Research Excellence and the American Dairy Science Association Foundation Scholar Award.

Dr. McArt's research program focuses on the biology, epidemiology, and economic impact of periparturient diseases in dairy cows, with an emphasis on improving early detection, prevention, and treatment strategies. Her work integrates clinical service, diagnostics, and data-driven approaches, including machine learning and modeling, to improve animal health, production efficiency, and farm profitability.

As Section Chief of the Ambulatory and Production Medicine Clinic, Dr. McArt led a team of clinicians delivering community-based care, including through the COVID-19 pandemic. Since serving as Chair, she leads a department of more than 50 faculty across tenure-track, research, teaching, and extension roles. In these positions, she has overseen strategic planning, multi-year budget development, faculty recruitment and workload alignment, and facility planning, while strengthening departmental cohesion and performance.

Dr. McArt received her D.V.M and Ph.D from Cornell University and a B.A from Dartmouth College.

A copy of Dr. McArt's CV is attached.

CURRICULUM VITAE



NAME

Jessica Anne Allerton McArt



EDUCATION

- 2009-2013 PhD, Cornell University, Ithaca, NY
Field of Comparative Biomedical Sciences
- 2003-2007 Doctor of Veterinary Medicine, Cornell University, Ithaca, NY
Production animal pathway
- 1995-1999 Bachelor of Arts, Dartmouth College, Hanover, NH
Major: biochemistry and molecular biology; Minor: engineering



ACADEMIC POSITIONS

- 2025-present Professor, Ambulatory and Production Medicine
Department of Population Medicine and Diagnostic Sciences
College of Veterinary Medicine, Cornell University, Ithaca, NY 14853
- 2024-present Department Chair
Department of Population Medicine and Diagnostic Sciences
College of Veterinary Medicine, Cornell University, Ithaca, NY 14853
- 2023-2024 Visiting Scientist
Department of Energy, Environment, and Climate Action
Agriculture Victoria, Bundoora, VIC, Australia 3083
- 2022-2023 Interim Department Chair
Department of Population Medicine and Diagnostic Sciences
College of Veterinary Medicine, Cornell University, Ithaca, NY 14853
- 2020-2025 Associate Professor, Ambulatory and Production Medicine
Department of Population Medicine and Diagnostic Sciences
College of Veterinary Medicine, Cornell University, Ithaca, NY 14853
- 2017-2022 Section Chief, Ambulatory and Production Medicine Clinic
Cornell University Hospital for Animals
College of Veterinary Medicine, Cornell University, Ithaca, NY 14853
- 2014-2020 Assistant Professor, Ambulatory and Production Medicine
Department of Population Medicine and Diagnostic Sciences
College of Veterinary Medicine, Cornell University, Ithaca, NY 14853
- 2013-2014 Assistant Professor, Livestock Medicine and Population Health
Department of Clinical Sciences, College of Veterinary Medicine and Biomedical Sciences
Colorado State University, Fort Collins, CO 80523
- 2008-2009 Resident, Ambulatory and Production Medicine Clinic
Department of Population Medicine and Diagnostic Sciences
College of Veterinary Medicine, Cornell University, Ithaca, NY 14853
- 2007-2008 Intern, Ambulatory and Production Medicine Clinic
Department of Population Medicine and Diagnostic Sciences
College of Veterinary Medicine, Cornell University, Ithaca, NY 14853

SCIENTIFIC POSITIONS

2024-present *JDS Communications*, Editor in Chief
 2022-2023 *Journal of Dairy Science*, Senior Section Editor – Health, Behavior, and Well-being
 2020-2021 *Journal of Dairy Science*, Section Editor – Health, Behavior, and Well-being
 2019 *Journal of Dairy Science*, Editorial Board

BOARD CERTIFICATION

2020-present Diplomate American Board of Veterinary Practitioners (Dairy Practice)

HONORS AND AWARDS

2023 American Dairy Science Association Foundation Scholar Award in Dairy Production
 2020 Zoetis Award for Veterinary Research Excellence
 2018 SCAVMA Teaching Excellence Award in Clinical Sciences, Cornell University
 2012 American Dairy Science Association, Graduation Student Presentation – 1st Place
 2011 American Association of Bovine Practitioners, Graduate Student Presentation – 1st Place
 2009 Resident Research Seminar, Cornell University – 1st Place
 2007 Myron G. Fincher Prize for Large Animal Obstetrics, Cornell University
 2006 F. H. Fox Scholarship, Cornell University
 2005 American Association of Bovine Practitioners, Amstutz Scholar

PUBLISHED WORKS

Refereed Journal Articles

* Denotes first or senior author (first author trainee: undergrad, grad, or vet student, post-doc, or resident)

1. * Seminara JA, Bach KD, Mann S, Gottwald KR, Hernandez LL, McArt JAA. Periparturient sequence of dysregulated physiology surrounding dyscalcemia in multiparous Holstein cows: A prospective cohort study. *J Dairy Sci*. Accepted, January 2026.
2. * Seminara J, McArt JAA. (2026) Associations of early postpartum inflammation measured at 2 DIM with metrics of milk production, health, and herd removal in multiparous Holstein cows. *J Dairy Sci*; 109:592-605.
3. * Lin D, Li J, Seminara JA, McArt JAA. (2025) Predicting postpartum diseases in Holstein cows using milk spectra and machine learning – Retrospective assessment from diagnosis date. *J Dairy Sci*; 108:13739-13751.
4. * Lin D, McArt JAA. (2025) Prediction and classification of metritis and mastitis in Holstein cows using transition milk spectra under different modeling strategies. *J Dairy Sci*; 108:13752-13763.
5. Louge I, Lejeune M, Edwards M, Smith M, White H, McArt JAA, Stanton t, Mann S. FAMACHA score is a poor single indicator for gastrointestinal parasitic burden of small ruminants in New York State. *JAVMA*; Published online, December 2025.
6. * Gottwald K, McArt JAA, Bhattacharjee T, von Königslöw T. (2025) Oral temperature of preweaning dairy heifers: Sensitivity and specificity at detecting individuals with pyrexia. *JDS Commun*; 6:811-815.
7. Graef G, Sipka A, Tompkins S, Seely C, McArt JAA, Overton T. (2025) Associations between periparturient calcium dynamics of multiparous Holstein cows and inflammation markers during the transition period. *J Dairy Sci*; 108:11389-11402.

8. * Seminara J, Callero K, An S, Salpekar C, Van Althius M, Barbano D, McArt JAA. (2025) Predicting calcium status in early lactation multiparous Holsteins using milk constituent analysis. *J Dairy Sci*; 108:10073-10083.
9. Hendriks S, Roche J, McArt JAA, Grala T, Turner SA, Burke C, Kuhn-Sherlock B, Phyn C. (2025) The effect of monopropylene glycol on milk production, uterine health, and reproductive performance in cows diagnosed with hyperketonemia on 3 pasture-based dairy farms. *J Dairy Sci*; 108:5271-5286.
10. Hendriks S, Roche J, McArt JAA, Grala T, Turner SA, Burke C, Kuhn-Sherlock B, Phyn C. (2025) Case studies investigating the epidemiology of hyperketonemia in grazing dairy cows in early lactation: Incidence, prevalence, and time to resolution of hyperketonemia. *J Dairy Sci*; 108: 5257-5270.
11. * Seminara JA, Seely CR, McArt JAA. (2025) Acute phase responses in clinically healthy multiparous Holsteins with and without calcium dysregulation during the early postpartum period. *J Dairy Sci*; 108:1930-1939.
12. Muniz MMM, Couto Serrenho R, Duffield T, de Oliveira GA, McArt JAA, Baes CF, Schenkel FS, Squires EJ. (2024) Identification of genetic markers associated with hyperketonemia patterns in early lactation Holstein cows. *J Anim Breed Genet*; 6:702-721.
13. * McArt JAA, Wieland M. (2024) Efficacy of internal and external teat sealants on cure and new infection risk in dry-off protocols for Holstein cows. *JDS Commun*; 5:644-648.
14. * Seely CR, McArt JAA. (2024) Patterns of periparturient rumination and activity time in multiparous Holstein cows with and without dyscalcemia in early lactation. *J Dairy Sci*; 7:4871-4880.
15. * Frost IR, Seely CR, McCray, HA, Callero KR, Seminara JA, Martinez RM, Reid AM, Wilbur CN, Koebel KJ, McArt JAA. (2024) Effect of postpartum calcium supplementation on serum calcium and parathyroid hormone concentrations in multiparous Holstein cows. *JDS Commun*; 5:215-219.
16. * McCray HA, Seely CR, McArt JAA. (2024) Does knowledge of blood calcium concentration at 2 days postpartum affect decisions of calcium supplementation? *JDS Commun*; 5:200-204.
17. * Seely CR, Wilbur C, Fang K, McArt JAA. (2024) Effects of timing of oral calcium administration on milk production in high-producing early-lactation Holstein cows. *J Dairy Sci*; 107:1620-1629.
18. * Seely CR, McArt JAA. (2023) Circulating parathyroid hormone and serotonin in multiparous cows with differing postparturient serum calcium concentrations. *J Dairy Sci*; 106:9587-9597.
19. Hernandez LL, McArt JAA. (2023) Perspective: Transient postparturient hypocalcemia: a lactation-induced phenomenon of high-producing dairy cows. *J Dairy Sci*; 106:8177-8180.
20. Mahjoubi E, Mousavi MA, Yazdi MH, Hosseinzadeh M, McArt JAA. (2023) A randomized field trial assessing the timing of postpartum calcium bolus administration on milk yield of multiparous Holsteins cows. *J Dairy Sci*; 106:7320-7328.
21. * Seminara JA, Callero KR, Frost IR, Martinez RM, McCray HA, Reid AM, Seely CR, Barbano DM, McArt JAA. (2023) Calcium dynamics and associated temporal patterns of milk constituents in early lactation multiparous Holsteins. *J Dairy Sci*; 106:7117-7130.
22. * McArt JAA, Oetzel GR. (2023) Considerations in the diagnosis and treatment of early lactation calcium disturbances. *Vet Clin Food Anim*; 39:241-259.
23. * Mann S, McArt JAA. (2023) Hyperketonemia: a marker of disease, a sign of a high-producing dairy cow, or both? *Vet Clin Food Anim*; 39:307-324.
24. Lin D, Kenez A, McArt JAA, Li J. (2023) Transformer neural network to predict and interpret pregnancy loss from activity data in Holstein dairy cows. *Computers and Electronics in Agriculture*; 205:107638.
25. * Callero KR, Teplitz EM, Barbano DM, Seely CR, Seminara JA, Frost IR, McCray HA, Martinez RM, Reid AM, McArt JAA. (2023) Patterns of Fourier-transform infrared estimated milk constituents in early lactation Holstein cows. *J Dairy Sci*; 106:2716-2728.

26. * Seely CR, McArt JAA. (2023) The association of blood calcium dynamics and reproductive outcomes in multiparous Holstein cows. *JDS Commun*; 4:111-115.
27. Miles AM, McArt JAA, Lima SF, Neves RC, Ganda E. (2022) The association of hyperketonemia with fecal and rumen microbiota at time of diagnosis in a case-control cohort of early lactation cows. *BMC Vet Res*; 18:411.
28. * Seely CR, Barbano DM, Bach KD, and McArt JAA. (2022) Diurnal variation of milk fatty acids in early-lactation Holstein cows with and without hyperketonemia. *ANIMAL*; 16:100552.
29. * Bach KD, McArt JAA. (2021) Blood calcium as a prognostic indicator of left displaced abomasum post-surgical correction success. *JDS Commun*; 2:207-211.
30. * Seely CR, Leno BM, Kerwin AL, Overton TR, McArt JAA. (2021) Association of subclinical hypocalcemia dynamics with dry matter intake, milk yield, and blood minerals during the periparturient period. *J Dairy Sci*; 104:4692-4702. *Editor's Choice Best of 2021, Section of health, behavior and well-being; *Journal of Dairy Science, Highly Cited Paper Recognition**
31. Palmer S, Espinheira F, McArt JAA. (2021) Ophthalmic disorders in a referral population of seven breeds of brachycephalic dog: 970 cases (2008-2017). *JAVMA*; 259:1318-1324.
32. * Capel M, Bach KD, Mann S, McArt JAA. (2021) A randomized controlled trial to evaluate propylene glycol alone or in combination with dextrose as a treatment for hyperketonemia in dairy cows. *J Dairy Sci*; 104:2185-2194.
33. * Seely CR, Bach KD, Barbano DM, McArt JAA. (2021) Effect of hyperketonemia on the diurnal patterns of energy-related blood metabolites in early-lactation dairy cows. *J Dairy Sci*; 104:818-825.
34. * Bach KD, Barbano DM, McArt JAA. (2021) The relationship of excessive energy deficit with milk somatic cell score and clinical mastitis. *J Dairy Sci*; 104:715-727.
35. * McArt JAA, Abuelo A, Mann S. (2020) Metabolic disease diagnosis on farm: Epidemiological principles. *In Practice*; 42:405-414.
36. Wilkens MR, Nelson CD, Hernandez LL, McArt JAA. (2020) Symposium review: transition cow calcium homeostasis – health effects of hypocalcemia and strategies for prevention. *J Dairy Sci*; 103:2909-2927.
37. Espinheira F, Abou-Madi N, Ledbetter EC, McArt JAA. (2020) Spectral-domain optical coherence tomography imaging of normal fovea: A pilot study in 17 diurnal birds of prey. *Vet Ophthalmol*; 23:347-357.
38. * Leal Yepes FA, Mann S, Martens EM, Velasco-Bolaños J, Ceballos-Marquez A, Puerto S, Gómez MI, McArt JAA. (2020) Blood β -hydroxybutyrate concentrations and early lactation management strategies on pasture-based dairy farms in Colombia. *Prev Vet Med*; 174:104855.
39. * McArt JAA, Neves RC. (2020) Association of transient, persistent, or delayed subclinical hypocalcemia with early lactation disease, removal, and milk yield in Holstein cows. *J Dairy Sci*; 103:690-701. **Journal of Dairy Science, Highly Cited Paper Recognition**
40. * Bach KD, Neves RC, Stokol T, McArt JAA. (2020) Technical note: effect of storage time and temperature on total calcium concentrations in bovine blood. *J Dairy Sci*; 103:922-928.
41. Leal Yepes FA, Nydam DV, Mann S, Caixeta L, McArt JAA, Overton TR, Wakshlag JJ, Huson HJ. (2019) Longitudinal phenotypes improve genotype association for hyperketonemia in dairy cattle. *Animals*; 9:1059.
42. * Bach KD, Barbano DM, McArt JAA. (2019) Association of mid-infrared predicted milk and blood constituents with early lactation disease, removal and production outcomes in Holstein dairy cows. *J Dairy Sci*; 102:10129-10139.
43. Mann S, McArt JAA, Abuelo A. (2019) Invited review – Production-related metabolic disorders of cattle: ketosis, milk fever, and grass staggers. *In Practice*; 41:205-219.
44. * Bach KD, Sipka A, McArt JAA. (2019) Case study: evaluating quarter and composite milk sampling for detection of subclinical intramammary infections in dairy cattle. *Prev Vet Med*; 163:51-57.

45. Miles AM, McArt JAA, Leal Yepes FA, Stambuk CA, Virkler PD, Huson HJ. (2019) Udder and teat conformational risk factors for elevated somatic cell count and clinical mastitis in New York Holsteins. *Prev Vet Med*; 163:7-13.
46. Stambuk CR, McArt JAA, Bicalho RC, Miles AM, Huson HJ. (2019) Associations of digital cushion thickness, compromised locomotion, and hoof lesions reflecting lameness of Holstein cows. *Trans An Sci*; 3:9-18.
47. * Neves RC, Leno BM, Bach KD, McArt JAA. (2018) The epidemiology of subclinical hypocalcemia in early-lactation Holstein dairy cows: temporal associations of plasma calcium concentration in the first 4 days in milk with disease and milk production. *J Dairy Sci*; 101:9321-9331.
48. * Leno BM, Neves RC, Louge IM, Curler MD, Thomas MJ, Overton TR, McArt JAA. (2018) Differential effects of a single dose of oral Ca based on postpartum plasma Ca concentration in Holstein cows. *J Dairy Sci*; 101:3285–3302.
49. Caixeta LS, Herman JA, Johnson GW, McArt JAA. (2018) Herd level monitoring and prevention of displaced abomasum in dairy cattle. *Vet Clin Food Anim*; 34:83-99.
50. * Mann S, Leal Yepes FA, Wakshlag JJ, Behling-Kelly E, McArt JAA. (2018) The effect of different treatments for early lactation hyperketonemia on liver triglycerides, glycogen, and expression of key metabolic enzymes in dairy cattle. *J Dairy Sci*; 101:1626-1637.
51. Fry MM, Yao B, Rios C, Mann S, Wong C, McArt JAA, Nydam DV, Leal Yepes FA, Viesselmann L, Geick A, Goldin K, Jordan A, Behling-Kelly E. (2018) Diagnostic performance of cytology for assessment of hepatic lipid content in dairy cattle. *J Dairy Sci*; 101:1379-1387.
52. * Neves RC, Stokol T, Bach KD, McArt JAA. (2018) Method comparison and validation of a prototype device for measurement of ionized calcium concentrations cow-side against a point-of-care instrument and a benchtop blood-gas analyzer reference method. *J Dairy Sci*; 101:1334-1343.
53. * Neves RC, Leno BM, Thomas MJ, Curler MD, Overton TR, McArt JAA. (2018) Association of immediate postpartum plasma calcium concentration with early-lactation clinical diseases, culling, reproduction, and milk production in Holstein cows. *J Dairy Sci*; 101:547-555.
54. * Domino AR, Korzec HC, McArt JAA. (2017) Field trial of two calcium supplements on early lactation health and production in multiparous Holstein cows. *J Dairy Sci*; 100:9681-9690.
55. Overton TR, McArt JAA, Nydam DV. (2017) Invited review: metabolic health indices and management of dairy cattle. *J Dairy Sci*; 100:10398-10417.
56. * Mann S, Leal Yepes FA, Behling-Kelly E, McArt JAA. (2017) The effect of different treatments for early lactation hyperketonemia on blood β -hydroxybutyrate, plasma non-esterified fatty acid, glucose, insulin, and glucagon in dairy cattle. *J Dairy Sci*; 100: 6470-6482.
57. * Neves RC, Leno BM, Stokol T, Overton TR, McArt JAA. (2017) Risk factors associated with postpartum subclinical hypocalcemia in dairy cows. *J Dairy Sci*; 100: 3796-3804.
58. Teixeira AGV, McArt JAA, Bicalho RC. (2017) Thoracic ultrasound assessment of lung consolidation at weaning in Holstein dairy heifers: reproductive performance and survival. *J Dairy Sci*; 100: 2985-2991. *Editor's choice award*
59. Teixeira AGV, McArt JAA, Bicalho RC. (2017) Efficacy of tildipirosin metaphylaxis for the prevention of respiratory disease, otitis and mortality in pre-weaned Holstein calves. *The Vet J*; 219: 44-48.
60. * Bach KD, Heuwieser W, McArt JAA. (2016) Technical note: Comparison of 4 electronic handheld meters for diagnosing hyperketonemia in dairy cows. *J Dairy Sci*; 99: 9136-9142. *Editor's Choice*
61. Noyes NR, Yang X, Linke LM, Magnuson RJ, Cook SR, Zaheer R, Yang H, Woerner DR, Geornaras I, McArt JAA, Gow SP, Ruiz J, Jones KL, Boucher C, McAllister TA, Belk KE, Morley PS. (2016) Characterization of the resistome in manure, soil and wastewater from dairy and beef production systems. *Sci Rep J*; 6: 24645.

62. * Mann S, Nydam DV, Lock A, Overton TR, McArt JAA. (2016) Short communication: Association of milk fatty acids with early lactation hyperketonemia and elevated concentration of nonesterified fatty acids. *J Dairy Sci*; 99: 5851-5857.
63. * McArt JAA, Oetzel GR. (2015) A stochastic estimate of the economic impact of oral calcium supplementation in postparturient dairy cows. *J Dairy Sci*; 98: 7408-7418.
64. * McCarthy M, Mann S, Nydam DV, Overton TR, McArt JAA. (2015) Short communication: Concentration of non-esterified fatty acids and β -hydroxybutyrate in dairy cows are not well correlated during the transition period. *J Dairy Sci*; 98: 6284-6290.
65. * McArt JAA, Nydam DV, Overton MW. (2015) Hyperketonemia in early lactation dairy cattle: a deterministic estimate of component and total cost per case. *J Dairy Sci*; 98: 2043-2054.
66. Lear AS, Byers SR, Callan RJ, McArt JAA. (2014) Evaluation of cholesterol and vitamin E concentrations in adult alpacas and nursing crias. *Global Science and Technology Forum*; Vol 1, No 2.
67. * McArt JAA, Nydam DV, Oetzel GR, Guard CL. (2014) An economic analysis of hyperketonemia testing and propylene glycol treatment strategies in early lactation dairy cattle. *Prev Vet Med*; 117: 170-179.
68. Yasui T, McArt JAA, Ryan CM, Gilbert RO, Nydam DV, Valdez F, Griswold K, Overton TR. (2014) Effects of chromium propionate supplementation during the periparturient period and early lactation on metabolism, performance, and cytological endometritis in dairy cows. *J Dairy Sci*; 97: 6400-6410.
69. Vergara CF, Döpfer D, Cook NB, Nordlund KV, McArt JAA, Nydam DV, Oetzel GR. (2014) Risk factors for postpartum problems in dairy cows: explanatory and predictive modeling. *J Dairy Sci*; 97: 4127-4140.
70. Lear AS, Byers SR, Callan RJ, McArt JAA. (2014) Evaluation of sample handling effects on serum vitamin E and cholesterol concentrations in alpacas. *Vet Med Int*; Article ID 537213, DOI:10.1155/2014/537213.
71. * McArt JAA, Nydam DV, Oetzel GR, Overton TR, Ospina PA. (2013) Elevated nonesterified fatty acids and beta-hydroxybutyrate and their association with transition dairy cow performance. *The Vet J*; 198: 560-570.
72. Ospina PA, McArt JAA, Overton TR, Stokol TS, Nydam DV. (2013) Using nonesterified fatty acids and beta-hydroxybutyrate concentrations during the transition period for herd-level monitoring of increased risk of disease and decreased reproductive and milking performance. *Vet Clin Food Anim*; 29: 387-412.
73. * McArt JAA, Nydam DV, Oetzel GR. (2012) Dry period and parturient predictors of early lactation ketosis in dairy cattle. *J Dairy Sci*; 96: 198-209.
74. * McArt JAA, Nydam DV, Oetzel GR. (2012) Epidemiology of subclinical ketosis in early lactation dairy cattle. *J Dairy Sci*; 95:5056-5066. *In 2015, noted as one of the 100 most cited papers published in *JDS* since 2012*
75. * McArt JAA, Nydam DV, Oetzel GR. (2012) A field trial on the effect of propylene glycol on displaced abomasum, removal from herd, and reproduction in fresh cows diagnosed with subclinical ketosis. *J Dairy Sci*; 95: 2505-2512.
76. * McArt JAA, Nydam DV, Ospina PA, Oetzel GR. (2011) A field trial on the effect of propylene glycol on milk yield and resolution of ketosis in fresh cows diagnosed with subclinical ketosis. *J Dairy Sci*; 94: 6011-6020.
77. Machado VS, Caixeta LS, McArt JAA, Bicalho RC. (2010) The effect of claw horn disruption lesions and body condition score at dry-off on survivability, reproductive performance, and milk production in the subsequent lactation. *J Dairy Sci*; 93: 4071-4078.
78. * McArt JAA, Caixeta LS, Machado VS, Guard CL, Galvao KN, Sa Filho OG, Bicalho RC. (2010) Ovsynch versus Ultrasynch: reproductive efficacy of a dairy cattle synchronization protocol incorporating corpus luteum function. *J Dairy Sci*; 93: 2525-2532.

In Review

* Denotes first author or senior author

1. * Lin D, Ganda E, Silverman JD, Huang J, Gottwald KR, Hu H, Niu P, McArt JAA. Toward diseases-associated fecal microbiome signatures for domestic mammals. *Communications Biology*. December 2025.
2. * Bach KD, Poggi J, Seminara JA, McArt JAA. Inflammation and delayed oral calcium supplementation: Associations with milk yield, reproduction, and herd removal in multiparous Holstein dairy cows. *JDS Commun*. January 2026.
3. * Seminara JA, Sipka AS, Mann S, Hernandez LL, Wagner B, McArt JAA. Periparturient patterns of cytokines in cows with and without dyscalcemia. *JDS Commun*. January 2026.
4. Ali MA, Kachouei MA, Lin D, Holt J, Howell BR, McArt JAA. Electric double layer-dominated proton transduction enables continuous readout in protein-rich biofluids. *Nat Commun*. January 2026.

Editorials

* Denotes first author or senior author

1. * McArt JAA. *JDS Communications* 2024 Editorial Report. 2025. *JDS Commun*; 6(2): 184-185.
2. * McArt JAA. A note from the Editor in Chief of *JDS Communications*: Our purpose and people. 2024. *JDS Commun*; 5(6): 521.
3. * McArt JAA. *JDS Communications* H5N1 special issue: The importance of collaboration. 2024. *JDS Commun*; 5(Supplement 1): S1.
4. * McArt JAA. *JDS Communications* special issue: Behavior in Dairy Animals—Introduction. 2024. *JDS Commun*; 5(5): 367.
5. * McArt JAA. A note from the Editor in Chief of *JDS Communications*: The challenge of brevity for authors and reviewers. 2024. *JDS Commun*; 5(4): 271.
6. * McArt JAA. A note from the Editor in Chief of *JDS Communications*: Connecting via coffee and ice cream. 2024. *JDS Commun*; 5(3): 179-180.
7. * McArt JAA. A note from the Editor in Chief of *JDS Communications*: Elevating science via social media. 2024. *JDS Commun*; 5(2): 89-90.
8. Kononoff PJ, McArt JAA. Announcing the ADSA Loyalty Program and other developments. *JDS Commun*; 5(1): 5-6.
9. * McArt JAA. A note from *JDS Communications* Editor in Chief. 2024. *JDS Commun*; 5(1): 1-2.

Research Abstracts

* Denotes presenting author or primary mentor for the presentation

1. * Bach KD, Seely CR, McArt JAA. Relationship between milk and blood β -hydroxybutyrate in early lactation Holstein cows.
 - American Association of Bovine Practitioners: Omaha, Nebraska, September 2025, oral presentation
2. * Seminara JA, Bach KD, Gottwald KR, McArt JAA. Sequences of physiology surrounding postpartum calcium dysregulation in multiparous Holstein dairy cows.
 - Veterinary Scholars Symposium: Spokane, Washington, August 2025, oral presentation
 - American Association of Bovine Practitioners: Omaha, Nebraska, September 2025, oral presentation
3. * Güttler M, Seminara JA, McArt JAA. Prolonged birth makes it worse: labor duration impacts postpartum systemic inflammation in dairy cows.
 - Veterinary Scholars Symposium: Spokane, Washington, August 2025, oral presentation
 - American Association of Bovine Practitioners: Omaha, Nebraska, September 2025, oral presentation

4. * Seminara JA, McArt JAA. Association between early postpartum haptoglobin concentrations and early lactation maladaptation in multiparous Holsteins.
 - American Dairy Science Association: Louisville, Kentucky, July 2025, oral presentation
 - American Association of Bovine Practitioners: Omaha, Nebraska, September 2025, oral presentation **Won 1st place in graduate student competition**
5. * Poggi JM, Bach, KD, Seminara JA, McArt JAA. Inflammation does not impact calcium supplementation efficacy in early-lactation Holstein cows.
 - American Dairy Science Association: Louisville, Kentucky, July 2025, oral presentation
 - American Association of Bovine Practitioners: Omaha, Nebraska, September 2025, oral presentation
6. Gottwald KRK, McArt JAA, Sipka AS, Bhattacharjee T, von Königslöw TE. Associations of oral temperature with disease outcomes and inflammation in preweaning dairy heifers.
 - American Dairy Science Association: Louisville, Kentucky, July 2025, oral presentation
7. * Dan L, McArt JAA. Milk and milk spectra: A rich opportunity for mastitis prediction.
 - American Dairy Science Association: Louisville, Kentucky, July 2025, oral presentation
8. * Gottwald KRK, McArt JAA. Association of colostrum yield and immunoglobulin concentration with dyscalcemia in multiparous Holsteins.
 - American Dairy Science Association: Louisville, Kentucky, July 2025, poster presentation
9. * Capel MB, McArt JAA. Randomized trial assessing the effect of two types of multivalent intranasal vaccine at birth on respiratory disease, mortality, and average daily gain in preweaned Holstein heifers.
 - American Association of Bovine Practitioners: Columbus, Ohio, September 2024, oral presentation
10. * Seminara JA, Seely CR, McArt JAA. Early postpartum calcium dysregulation is associated with acute phase responses in multiparous Holsteins.
 - American Dairy Science Association: West Palm Beach, Florida, June 2024, oral presentation **Won 2nd place in graduate student competition**
 - American Association of Bovine Practitioners: Columbus, Ohio, September 2024, oral presentation
11. Cunha TO, Frizzarini WS, Vang AL, Mann S, McArt JAA, Hernandez LL. Effect of controlled ionized calcium status during the first 24 hours postpartum on neutrophil function of periparturient multiparous Holstein cows.
 - American Dairy Science Association: West Palm Beach, Florida, June 2024, poster presentation
12. * Seminara JA, Sipka AS, Seely CR, Wagner B, McArt JAA. Multiparous Holsteins with early postpartum calcium dysregulation have a blunted anti-inflammatory cytokine response.
 - American Dairy Science Association: West Palm Beach, Florida, June 2024, poster presentation
13. Frizzarini WS, Vang AS, Webster H, Teixeira N, Westhoff T, Lewandowski L, League L, Holewinski H, Mann S, McArt JAA, Hernandez LL. Effect of controlled ionized calcium status during the first 24 hours postpartum on milk production and dry matter intake in multiparous Holstein cows.
 - American Dairy Science Association: West Palm Beach, Florida, June 2024, poster presentation
14. Gottwald KRK, McArt JAA, Bhattacharjee T, von Königslöw TE. Oral temperature as an indicator of fever in preweaned dairy calves.
 - American Dairy Science Association: West Palm Beach, Florida, June 2024, poster presentation

- American Association of Bovine Practitioners: Columbus, Ohio, September 2024, oral presentation
15. * Lin D, Li J, Seminara JA, Barbano DM, McArt JAA. Forecasting early-lactation diseases in Holstein dairy cows using milk spectra and machine learning.
 - American Dairy Science Association: West Palm Beach, Florida, June 2024, poster presentation
 16. * Seminara JA, Callero KC, Seely CR, Van Althius M, An S, Salpekar CM, Barbano DM, McArt JAA. Predicting calcium status in early lactation multiparous Holsteins using milk constituent analysis.
 - American Dairy Science Association: Ontario, Canada, June 2023, poster presentation
 - American Association of Bovine Practitioners: Milwaukee, Wisconsin, September 2023, oral presentation **Won 1st place in graduate student competition**
 17. * McCray HA, Seely CR, McArt JAA. Does knowledge of blood calcium at 2 DIM impact decisions of calcium supplementation?
 - American Dairy Science Association: Ontario, Canada, June 2023, poster presentation
 - American Association of Bovine Practitioners: Milwaukee, Wisconsin, September 2023, oral presentation **Won 2nd place in veterinary student competition**
 18. * Seely CR, McArt JAA. Predicting dyscalcemia at 4 days in milk using activity and rumination data in multiparous Holstein cows.
 - American Dairy Science Association: Ontario, Canada, June 2023, poster presentation
 - American Association of Bovine Practitioners: Milwaukee, Wisconsin, September 2023, oral presentation
 19. Muniz MMM, Serrenho RC, de Oliveria GA, McArt JAA, Duffield TD, Schenkel FS, Squires EJ. Investigation of genetic markers that may be associated with responses of dairy cows to ketosis treatment.
 - American Society of Animal Science: Oklahoma City, Oklahoma, June 2022, poster presentation
 20. * Seminara JA, Callero KR, Frost IR, Martinez RM, McCray HA, Reid AM, Barbano DM, McArt JAA. Calcium dynamics and associated patterns of milk constituents in early lactation multiparous Holsteins.
 - American Dairy Science Association: Kansas City, Missouri, June 2022, poster presentation **Won 1st place in PhD student, production division competition**
 - American Association of Bovine Practitioners: Long Beach, California, September 2022, oral presentation
 21. * Seely CR, McArt JAA. Mediators of calcium homeostasis in cows with differing postparturient calcium dynamics.
 - American Dairy Science Association: Kansas City, Missouri, June 2022, poster presentation
 - American Association of Bovine Practitioners: Long Beach, California, September 2022, oral presentation **Won 1st place in graduate student competition**
 22. * Seely CR, Wilbur CN, Fang KM, McArt JAA. Impact of oral calcium bolus timing on milk production and health events in early lactation Holstein cows.
 - American Dairy Science Association: Kansas City, Missouri, June 2022, poster presentation
 - American Association of Bovine Practitioners: Long Beach, California, September 2022, oral presentation
 23. * McArt JAA, Teplitz EM, Callero KR, Seminara JA, Frost IR, McCray HA, Martinez RM, Reid AM, Barbano DM. Assessing differences in early lactation milk constituent estimates between Holstein cows of varying health outcomes.

- American Dairy Science Association: Kansas City, Missouri, June 2022, poster presentation
 - American Association of Bovine Practitioners: Long Beach, California, September 2022, oral presentation
24. * Callero KR, Teplitz EM, Barbano DM, Seely CR, Seminara JA, Frost IR, McCray HA, Martinez RM, Reid AM, McArt JAA. Patterns of Fourier-transform infrared estimated milk constituents in early lactation Holstein cows.
- American Dairy Science Association: Kansas City, Missouri, June 2022, poster presentation
25. * Frost IR, Seely CR, Callero KR, Seminara JA, McCray, HA, Martinez RM, Reid AM, Wilbur CN, Koebel KJ, McArt JAA. Effect of prophylactic calcium supplementation on regulators of calcium homeostasis in multiparous Holstein cows.
- American Dairy Science Association: Kansas City, Missouri, June 2022, poster presentation
 - American Association of Bovine Practitioners: Long Beach, California, September 2022, oral presentation
26. Hendriks SJ, Roche JR, McArt JAA, Grala TM, Turner SA, Burke CR, Kuhn-Sherlock, Phyn CVC. Case studies of hyperketonemia and its associations with reproduction in grazing dairy cows.
- American Dairy Science Association: Kansas City, Missouri, June 2022, oral presentation
27. Hendriks SJ, Roche JR, McArt JAA, Grala TM, Turner SA, Burke CR, Kuhn-Sherlock, Phyn CVC. Oral administration of monopropylene glycol to treat hyperketonemia in grazing dairy cows.
- American Dairy Science Association: Kansas City, Missouri, June 2022, oral presentation
28. * Seely CR, Bach KD, Barbano DM, McArt JAA. Diurnal variation of milk fatty acids in early-lactation Holstein cows with and without hyperketonemia.
- American Dairy Science Association: virtual due to coronavirus, July 2021, oral presentation
 - American Association of Bovine Practitioners: Salt Lake City, Utah, October 2021, oral presentation
29. * Seely CR, McArt JAA. The association of prepartum urine pH and periparturient activity and rumination time with postpartum subclinical hypocalcemia dynamics in Holstein cows.
- American Dairy Science Association: virtual due to coronavirus, July 2021, oral presentation
 - American Association of Bovine Practitioners: Salt Lake City, Utah, October 2021, oral presentation **Won 3rd place in graduate student competition* *
30. * Bach KD, McArt JAA. Blood calcium as a prognostic indicator of left-displaced abomasum post-surgical correction success.
- American Association of Bovine Practitioners: virtual due to coronavirus, September 2020, oral presentation
31. * Seely CR, Leno BM, Kerwin AL, Overton TR, McArt JAA. Association of subclinical hypocalcemia dynamics with dry matter intake, milk yield, and blood minerals during the periparturient period.
- American Association of Bovine Practitioners: virtual due to coronavirus, September 2020, oral presentation
32. * Seely CR, Bach KD, Barbano DM, McArt JAA. Effect of hyperketonemia on diurnal patterns of blood metabolites and milk predicted constituents in transition dairy cows.
- American Dairy Science Association: virtual due to coronavirus, July 2020, oral presentation
 - American Association of Bovine Practitioners: virtual due to coronavirus, September 2020, oral presentation **Won 2nd place in graduate student competition* *

- ICAR-Interbull Meeting: Montreal, Canada, June 2022, oral presentation
33. * Capel MB, Bach KD, Knecht ID, Koebel KJ, Mann S, McArt JAA. A randomized control trial to evaluate propylene glycol alone or in combination with dextrose as a treatment for hyperketonemia in dairy cows.
- American Dairy Science Association: cancelled due to coronavirus, poster presentation
 - American Association of Bovine Practitioners: virtual due to coronavirus, September 2020, oral presentation in Student Case Competition (ID Knecht) **Won 1st place in veterinary student competition**
 - American Association of Bovine Practitioners: virtual due to coronavirus, September 2020, oral presentation in Research Summaries
34. Espinheira Gomes F, Eddy R, Abou-Madi N, Ledbetter E, McArt JAA. Spectral domain optical coherence tomography imaging of normal foveae in diurnal birds of prey.
- American College of Veterinary Ophthalmologists: Maui, Hawaii, November 2019, poster presentation
35. Palmer SV, McArt JAA, Espinheira Gomes F. Ophthalmic disorders in brachycephalic breeds: a retrospective study in 970 dogs (2008-2017).
- American College of Veterinary Ophthalmologists: Maui, Hawaii, November 2019, poster presentation
36. * Bach KD, Neves RC, Stokol T, McArt JAA. Technical note: effect of storage time and temperature on total calcium concentrations in bovine blood.
- American Association of Bovine Practitioners: St. Louis, Missouri, September 2019, oral presentation **Won 1st place in graduate student competition **
37. * McArt JAA, Neves RC. Transient versus persistent subclinical hypocalcemia: association of calcium status with early lactation disease and production in Holstein cows.
- American Dairy Science Association: Cincinnati, Ohio, June 2019, poster presentation
38. * Leal Yepes FA, Mann S, Martens EM, Skellie J, Velasco-Bolaños, Ceballos-Marquez A, Puerto S, Gómez MI, McArt JAA. Early lactation management strategies and blood β -hydroxybutyrate concentrations on pasture-based dairy farms in Colombia.
- American Dairy Science Association: Cincinnati, Ohio, June 2019, poster presentation
39. Wall SK, Kerwin AL, Neves RC, Perfield KL, McArt JAA, Overton TR, Schoenberg KM, Shields J. Increased concentrations of liver health and inflammation biomarkers are associated with transition cow health disorders.
- 35th ADSA Discover Conference on Food Animal Agriculture: Itasca, Illinois, October 2018, poster presentation
40. * Bach KD, Barbano DM, McArt JAA. Association of mid-infrared predicted milk and blood constituents with early lactation disease and herd removal in Holstein cows.
- American Association of Bovine Practitioners: Phoenix, Arizona, September 2018, oral presentation
 - American Dairy Science Association: Cincinnati, Ohio, June 2019, oral presentation **Won 1st place in graduate student competition**
41. * Neves RC, Leno BM, Bach KD, McArt JAA. Epidemiology of subclinical hypocalcemia in early-lactation Holstein cows.
- American Dairy Science Association: Knoxville, Tennessee, June 2018, poster presentation
 - American Association of Bovine Practitioners: Phoenix, Arizona, September 2018, oral presentation
42. * Bach KD, Spika A, McArt JAA. Evaluating quarter versus composite milk sampling for detection of subclinical intramammary infections.
- American Association of Bovine Practitioners: Omaha, Nebraska, September 2017, oral presentation **Won 2nd place in graduate student competition**

43. * Neves RC, Leno BM, Thomas MJ, Curler MD, Overton TR, McArt JAA. Association of immediate postpartum plasma calcium concentration with early-lactation clinical diseases, culling, reproduction, and milk production in Holstein cows.
 - American Dairy Science Association: Pittsburg, Pennsylvania, June 2017, poster presentation
 - American Association of Bovine Practitioners: Omaha, Nebraska, September 2017, oral presentation
44. * Domino AR, Korzec HC, McArt JAA. Field trial of two calcium supplements on early lactation health and production in multiparous Holstein cows.
 - American Association of Bovine Practitioners: Omaha, Nebraska, September 2017, oral presentation
45. * Leno BM, Neves RC, Thomas MJ, Curler MD, Overton TR, McArt JAA. Effect of a single dose of an oral calcium bolus after parturition on plasma calcium concentration, milk production, and culling in Holstein dairy cows.
 - American Dairy Science Association: Pittsburg, Pennsylvania, June 2017, poster presentation
 - American Association of Bovine Practitioners: Omaha, Nebraska, September 2017, oral presentation
46. * Mann S, Leal Yepes FA, Behling-Kelly E, McArt JAA. Comparison of different treatment strategies for hyperketonemia in early lactation Holstein cows.
 - American Dairy Science Association, Pittsburg, Pennsylvania, June 2017, oral presentation
 - American Association of Bovine Practitioners: Omaha, Nebraska, September 2017, oral presentation
47. Miles AM, McArt JAA, Virkler PD, Huson HJ. Cow-level risk factors for clinical and subclinical mastitis in New York dairy cattle.
 - American Dairy Science Association: Pittsburg, Pennsylvania, June 2017, poster presentation
 - National Mastitis Council Annual Meeting: Tucson, Arizona, February 2018, poster presentation
48. Behling-Kelly E, Fry MM, Yao B, Nydam DV, Leal Yepes FA, McArt JAA, Mann S. Comparison of cytology and quantitative biochemical analysis of triglyceride concentration in liver samples from dairy cows.
 - American College of Veterinary Pathologists and American Society for Veterinary Clinical Pathology Concurrent Annual Meeting: New Orleans, Louisiana, December 2016, oral presentation
49. * Bach KD, Heuwieser W, McArt JAA. Comparison of 4 electronic cow-side tests for diagnosis hyperketonemia in dairy cows.
 - American Association of Bovine Practitioners: Charlotte, North Carolina, September 2016, oral presentation **Won 1st place in graduate student competition**
50. * Neves RC, Leno BM, Overton TR, McArt JAA. The association of prepartum blood magnesium concentration with postpartum subclinical hypocalcemia.
 - American Association of Bovine Practitioners: Charlotte, North Carolina, September 2016, oral presentation
51. * Louge IM, Neves RC, Bach KD, Sweeney BM, McArt JAA. The bioavailability of single-administration oral calcium supplementation in postpartum dairy cattle.
 - Cornell DVM Student Research Symposium: Ithaca, New York, October 2015, poster presentation
 - American Association of Bovine Practitioners: Charlotte, North Carolina, September 2016, oral presentation
52. * Neves RC, Stokol T, Curler MD, Thomas MJ, McArt JAA. Validation of a prototype cow-side instrument for the measurement of blood ionized calcium concentrations in dairy cattle.

- American Association of Bovine Practitioners: New Orleans, Louisiana, September 2015, oral presentation
 - American Dairy Science Association: Orlando, Florida, July 2015, oral and poster presentation
53. * Mann S, McCarthy MM, Nydam DV, Overton TR, McArt JAA. The relationship between concentrations of non-esterified fatty acids and β -hydroxybutyrate in transition dairy cows.
- American Association of Bovine Practitioners: New Orleans, Louisiana, September 2015, oral presentation
 - European College of Bovine Health Management: Maribor, Slovenia, June 2015, oral presentation
54. * McArt JAA, Oetzel GR. A stochastic estimate of the economic impact of oral calcium supplementation in postparturient dairy cows.
- American Dairy Science Association: Orlando, Florida, July 2015, poster presentation
55. * McCarthy MM, Mann S, Nydam DV, Overton TR, McArt JAA. Transition period concentrations of non-esterified fatty acids and β -hydroxybutyrate in dairy cows are not well correlated.
- American Dairy Science Association: Orlando, Florida, July 2015, poster presentation
56. Leal-Yepes FA, Huson HJ, Mann S, McArt JAA, Caixeta L, Overton TR, Wakshlag JJ, Nydam DV. A genomic-wide association study on development of hyperketonemia in periparturient Holstein dairy cows.
- American Dairy Science Association: Orlando, Florida, July 2015, oral presentation
57. Brandes K, Byers S, Callan RL, McArt JAA, Ballweber LR. Individual animals versus the dung pile: which sampling strategy is best for herd-based fecal egg count surveillance programs?
- Colorado Veterinary Conference: Fort Collins, Colorado, April 2015, oral presentation
 - Scientific Proceedings of the 16th annual CVMBS Research Day, Fort Collins, Colorado, January 2015, poster presentation
58. Lantz EL, McConnel CS, McArt JAA, Garry FB. Assessing pain and trauma in early lactation dairy cattle.
- College of Veterinary Medicine and Biomedical Sciences Research Day, Fort Collins, Colorado, January 2015, oral presentation
59. Noyes NR, Xiang Y, McArt JAA, Linke LM, Magnuson RJ, Yang H, Dettenwanger A, Jones KL, Boucher C, Belk KE, Morley PS. Using metagenomics to unlock the ecology of antimicrobial resistance in cattle production systems.
- Scientific Proceedings of the 16th annual CVMBS Research Day – Abstract 66, Fort Collins, Colorado, January 2015, poster presentation
 - Proceedings of the 95th Annual Conference of Research Workers in Animal Diseases – Abstract 51, Chicago, Illinois, December 2014, oral presentation
60. * McArt JAA, Nydam DV, Overton MW. Hyperketonemia in early lactation dairy cattle: component and total cost per case.
- American Association of Bovine Practitioners: Albuquerque, New Mexico, September 2014, oral presentation
 - American Dairy Science Association: Kansas City, Missouri, July 2014, oral presentation
61. Leal-Yepes FA, Mann S, Caixeta LS, McArt JAA, Huson HJ, Overton TR, Wakshlag JJ, Nydam DV. High NEFA concentration in postpartum dairy cows is not strongly correlation with hyperketonemia; are there associated genomic regions?
- American Association of Bovine Practitioners: Albuquerque, New Mexico, September 2014, oral presentation
62. Lear A, Byers S, Callan R, McArt JAA. Evaluation of cholesterol and vitamin E concentrations in periparturient alpacas and nursing crias.
- American College of Internal Veterinary Medicine: Nashville, Tennessee, July 2014, oral presentation

63. * McArt JAA, Nydam DV, Ospina PA, Oetzel GR, Guard CL. An economic analysis of subclinical ketosis testing and propylene glycol treatment strategies in early lactation dairy cattle.
- American Association of Bovine Practitioners: Milwaukee, Wisconsin, September 2013, oral presentation
64. * McArt JAA, Nydam DV, Oetzel GR. Ecology of subclinical ketosis in transition dairy cattle.
- American Dairy Science Association: Phoenix, Arizona, July 2012, oral and poster presentation **Won 1st place in graduate student competition**
 - European Association of Animal Science: Nantes, France, August 2013, oral presentation
65. * McArt JAA, Nydam DV, Oetzel GR. A field trial on the effect of propylene glycol on displaced abomasum, removal from herd, and reproduction in fresh cows diagnosed with subclinical ketosis.
- American Association of Bovine Practitioners: St. Louis, Missouri, September 2011, oral presentation
66. * McArt JAA, Nydam DV, Ospina PA, Oetzel GR. A field trial on the effect of propylene glycol on milk yield and resolution of ketosis in fresh cows diagnosed with subclinical ketosis.
- American Dairy Science Association: New Orleans, Louisiana, July 2011, oral presentation
 - American Association of Bovine Practitioners: St. Louis, Missouri, September 2011, oral presentation **Won 1st place in graduate student competition**
 - Cornell Biological and Biomedical Sciences Symposium, September 2011, poster presentation
67. * McArt JAA, Caixeta LS, Machado VS, Guard CL, Galvao KN, Sa Filho OG, Bichalo RC. Ovsynch versus Ultracynch: A clinical trial of breeding efficiency utilizing corpus luteum function.
- American Association of Bovine Practitioners: Omaha, Nebraska, September 2009, oral presentation
68. * McArt JAA, Mayers HM, Guard CL. Omasal dilatation and displacement.
- American Association of Bovine Practitioners: St. Paul, Minnesota, September 2006, oral presentation

Extension Articles

* Denotes first author or senior author

- Hendriks S, McArt JAA, Phyn C. Understanding hyperketonaemia in grazing dairy cows.
 - *HoofPrint NZ: Official newsletter of the Dairy Cattle Veterinarians Branch of the NZVA*. June 2025, 43(2); 22-27.
 - *VetScript: Official Magazine of the New Zealand Veterinary Association*. August/September 2025, 40-46.
- Wieland M, McArt JAA. Milk Quality: To seal or not to seal? *Hoard's Dairyman*. May 2025.
- * Seminara JA, McArt JAA. The silent impact of subclinical hypocalcemia. *Progressive Dairy*. Online, March 2025.
- * McArt JAA. Implementing an autogenous vaccine for pinkeye: It's so easy, even an academic vet can do it. *Progressive Dairy*. April 2024, pgs. 36-38.
- * Seely CR, McArt JAA. What is the impact of subclinical hypocalcemia diagnosed at four days in milk on reproductive outcomes? *The Manager – Progressive Dairy*. November 2022, pgs. 8-9.
- * Seely CR, McArt JAA. Should you delay oral calcium bolus supplementation for fresh cows? *The Manager – Progressive Dairy*. November 2022, pgs. 4-5.
- * Seminara JA, Barbano DM, McArt JAA. What can milk constituents tell us about cow calcium status? *The Manager – Progressive Dairy*. November 2022, pgs. 3-4.

8. * Seely CR, Neves RC, McArt JAA. Calcium's dynamic role in subclinical hypocalcemia. *Hoard's Dairyman*. October 2022.
9. * Neves RC, McArt JAA. For subclinical hypocalcemia, it's all about timing. *Hoard's Dairyman*. April 2022.
10. * McArt JAA. IV dextrose doesn't help cows with ketosis. *Dairy Nutrition Plus*, Consultant's Corner. May 2021.
11. * McArt JAA. A ketosis monitoring protocol. *Bovine Veterinarian*. July/August 2020. Cattle First, Issue #2.
12. * Bach KD, Capel M, Mann S, McArt JAA. Treating the ketotic dairy cow – Does intravenous dextrose improve health and production over oral propylene glycol alone? *The Manager – Progressive Dairy*. July 2020, pgs. 2-3.
13. * Seely CR, Bach KD, Barbano DM, McArt JAA. Circadian pattern of blood energy metabolites – Timing matters! *The Manager – Progressive Dairy*. July 2020, pgs. 4-5.
14. * Barbu N, McArt JAA. Monitor blood calcium status for better transition cow performance. *Feedstuffs*. July 2019.
15. * McArt JAA. Understanding blood calcium dynamics. *Dairy Nutrition Plus*, Consultant's Corner. May 2019.
16. * Mann S, McArt JAA. Postpartum ketosis treatments – propylene glycol, dextrose or both? *The Manager – Progressive Dairyman*. July 2018, pgs. 4-5.
17. * Bach KD, McArt JAA. Somatic cell counts – using the magic 200,000 cells/mL cut-point to diagnose subclinical mastitis. *The Manager – Progressive Dairyman*. July 2018, pgs. 3-4.
18. * McArt JAA. You can prevent hyperketonemia. *Dairy Nutrition Plus*, Consultant's Corner. March 2017, pg. 3.
19. * Bach KD, McArt JAA. Comparison of hand-held meters to diagnose hyperketonemia. *Eastern Dairy Business*. October 2016, pg. 33.
20. Mann S, McArt JAA, Nydam DV. Manage, monitor metabolic “Armageddon” in transition cows. *Progressive Dairyman*. February 2016, pgs. 66-67.
21. * McCarthy MM, Mann S, McArt JAA. Transition health markers are not interchangeable. *Hoard's Dairyman*. January 2016, pg. 45.
7. * McArt JAA, Nydam DV. The cost of subclinical ketosis. *Progressive Dairyman*. February 2015, pgs. 40-41.
8. * McArt JAA, Nydam DV. The financial impact of hyperketonemia in your herd could be large. *Eastern Dairy Business*. November 2014, pgs. 20-21.
9. Ospina PA, McArt JAA, Overton TR, Nydam DV. The impact of subclinical ketosis in large dairy herds. *Eastern Dairy Business*. November 2012, pgs. 31-33.
10. * McArt JAA, Ospina PA, Overton TR, Oetzel GR, Nydam DV. Ketosis sets cows up for a slow start. *Hoard's Dairyman*. October 2012, pg. 641.

Book Chapters

1. McArt JAA. (2025) Parturient Paresis in Cows. *The Merck Veterinary Manual*. Whitehouse Station, NJ; Merck & Co., Inc. Online: merckvetmanual.com.
2. McArt JAA. (2025) Parturient Paresis in Sheep and Goats. *The Merck Veterinary Manual*. Whitehouse Station, NJ; Merck & Co., Inc. Online: merckvetmanual.com.
3. McArt JAA. (2024) Hyperketonemia in Cattle. *The Merck Veterinary Manual*. Whitehouse Station, NJ; Merck & Co., Inc. Online: merckvetmanual.com.
4. McArt JAA, Nydam DV. (2019) Hyperketonemia in Dairy Cattle (Ketosis). *Smith's Large Animal Internal Medicine*, 5th ed. Pgs. 1408-1414.
5. McArt JAA, Divers TJ, Peek S. (2018) Metabolic Diseases. *Rebhun's Diseases of Dairy Cattle*, 3rd ed. Pgs. 713-733.
6. Nydam DV, Overton TR, McArt JAA, McCarthy MM, Leno B, Mann S. (2017) Management of transition cows to optimize health and production. *Large Dairy Herd Management*, 3rd ed. Pgs. 1067-1075.



INVITED PRESENTATIONS

Scientific, Academic, and Veterinary Seminars:

1. *Invited:* American Association of Bovine Practitioners Preconference Seminar. Milwaukee, Wisconsin, August 2026.
 - Preconference Seminar: Transition cow health and management. 8.0 hr.
 - Clinical Forum: Transition cow health. 1.75 hr.
 - Seminar: Managing inflammation in the transition cow. 0.5 hr.
 - Seminar: Transition ration management. 1.0 hr.
2. *Invited:* Mid-Atlantic States Conference for Bovine Practitioners. Frederick, Maryland, March 2026.
 - Hypocalcemia and inflammation. 1.0 hr.
 - Hyperketonemia. 1.0 hr.
3. *Invited:* American Association of Bovine Practitioners Recent Graduate Conference. Lincoln, Nebraska, February 2026.
 - Hungry, hangry, or just off? Supportive care for the off-feed cow. 0.5 hr.
 - What's on Dr. McArt's mind? 0.5 hr.
4. China Agricultural University, College of Veterinary Medicine Seminar. Beijing, China, October 2025.
 - Cornell, cows, calcium, and collaborative research. 1.0 hr.
5. New Zealand Veterinary Association. Webinar, June 2025.
 - Hyperketonemia—practical advice for clinical vets. 0.5 hr.
6. National Association of Spanish Specialists in Bovine Medicine Congress (ANEMBE). Vitoria-Gasteiz, Spain, May 2025.
 - Postpartum calcium dynamics, inflammation, and milk production in early lactation cows. 0.5 hr.
 - Monitoring cow and herd health via milk. 0.5 hr.
7. European Buiatrics Congress & European College of Bovine Health Management Meeting. Nantes, France, May 2025.
 - Recent advances in calcium and phosphorus disorders in cattle. 0.75 hr.
8. Toolbox for ketosis workshop. Nantes, France, May 2025.
 - Recent insights into ketosis—how changes in definition, diagnostics, and treatment can be impact farm management. 1.0 hr.
9. Northeast Dairy Production Medicine Symposium. Greek Peak, New York, March 2025.
 - Unpacking the relationship of postpartum calcium dynamics, inflammation, and milk production. 1.0 hr.
10. From Science to Practice “Dairy cows in questions”. Krakow, Poland, March 2025.
 - Does the time of hypocalcemia diagnosis matter? 0.5 hr.
 - How can we collect and run blood samples for calcium determination? 0.5 hr.
11. Vaxxinova Dairy Veterinarian Meeting. Bedford, Pennsylvania, October 2024 & Aurora, New York, May 2025.
 - Successfully implementing an autogenous vaccine for pinkeye: Learn from my mistakes! 0.5 hr.
12. American Dairy Science Association Annual Meeting. Ottawa, Canada, June 2023.
 - ADSA Foundation Scholar Award Presentation: Postpartum hypocalcemia of the high-functioning dairy cow: rethinking a historical disease. 1 hr.
13. Guelph Dairy Health Management Program. Guelph, Canada, May 2023.
 - What's new in monitoring and managing hyperketonemia? 1.5 hr.
 - New perspectives and data on defining and treating hypocalcemia. 1.5 hr.
14. Vaxxinova Dairy Veterinarian Meeting. Aurora, New York, April 2023.
 - Implementing an autogenous vaccine for pinkeye: It's so easy, even an academic vet can do it! 0.5 hr.

15. Elanco: a la celebración del 10o aniversario de Kexxtone. Santiago de Compostela, Spain, March 2023.
 - Growing evidence of interest in ketosis monitoring & prevention: farm sustainability 0.75 hr.
 - How to convince and involve farmers in adoption of preventive measures in the V90D: tips & strategies. 0.75 hr.
16. From Science to Practice “Dairy cows in questions”. Krakow, Poland, March 2023.
 - How do we best diagnose and treat cows with ketosis? 0.75 hr.
 - How much does ketosis cost and how can we minimize this impact? 0.75 hr.
17. Michigan Veterinary Conference. Novi, Michigan, December 2021.
 - How low can they go? When to worry & what to do about postpartum hypocalcemia. 1 hr.
 - Too much of a good thing – identifying and treating early lactation hyperketonemia. 1 hr.
 - Got milk? Monitoring early lactation health through milk. 1 hr.
18. Phibro Animal Health Canada – Veterinarians. Webinar based in Canada, November 2021.
 - Directional calcium dynamics: Which patterns are bad and what can we do about them? 1.5 hr.
19. Quebec Association of Bovine Practitioners. Webinar, based in Canada, September 2021.
 - A bumpy ride: Diurnal variation of blood & milk metrics in early lactation. 1.5 hr.
20. Vetoquinol, Veterinary Applied Research of Cattle Webinar Series. Webinar, based in Canada, November 2020.
 - Postpartum hypocalcemia: Should you reach for a bottle, a bolus, or both? 2 x 2 hr.
21. Quebec Veterinary Congress. Webinar, based in Canada, November 2020.
 - A bottle, a bolus, or both? Different types of postpartum hypocalcemia and their treatments. 1.5 hr.
22. Newport Laboratories – Veterinarian Continuing Education. Webinar, November 2020.
 - Pinkeye in vet school: how we teach it vs. how we should teach it. 0.25 hr.
23. Mid-Atlantic States Bovine Conference. Webinar, March 2020.
 - Too much of a good thing – hyperketonemia in early lactation dairy cows. 1 hr.
 - Got calcium? Classifying, quantifying, and treating hypocalcemia in Holstein cows. 2 hr.
24. Emerging Veterinary Scholars Summit. University of Calgary, Canada, November 2019.
 - From ski trails to cow tails: how to thrive as a chronic learner. 1 hr.
25. American Dairy Science Association Annual Meeting. Cincinnati, Ohio, June 2019.
 - Use of oral calcium for treatment of hypocalcemia: effects on health and production. 0.75 hr.
26. 28th Annual Northeast Dairy Production Medicine Symposium. Syracuse, New York, March 2019. Michigan State University. Department of Large Animal Clinical Sciences. May 2019.
 - Being a mom is hard: calcium demands of early lactation Holsteins. 1 hr.
27. 35th American Dairy Science Association Discover Conference. Itasca, Illinois, October 2018.
 - The stress of making milk: calcium dynamics in early lactation. 0.5 hr.
28. 4th Annual KaiHang Dairy Forum: Data-Based Decision Making. Suzhou, China, October 2018.
 - Using BHBA results to make transition management and treatment decisions. 0.5 hr.
 - Calcium dynamics in early lactation. 0.5 hr.
 - Herd-level transition period management strategies to optimize lactation performance. 1 hr.
29. New York State Fall Veterinary Conference. Ithaca, New York, October 2018.
 - Being a mom is hard: calcium demands of early lactation dairy cows. 0.5 hr.
30. American Association of Bovine Practitioners Annual Conference. Phoenix, Arizona, September 2018.
 - Clinical Forum – transition cows. 2 hr.
31. Cornell Dairy Center of Excellence Spring Seminar Series. Ithaca, New York, May 2018. Cornell Department of Clinical Sciences Seminar Series. Ithaca, New York, November 2017.
 - Hypocalcemia in postpartum dairy cows: good or bad? 1 hr.

32. Boehringer Ingelheim Vetmedica, Inc. Webinar, December 2017.
 - Who, what, and when of abnormal postpartum calcium concentration in dairy cows. 1 hr.
33. International Animal Husbandry Innovation Forum. Hangzhou, China, October 2017.
 - Transition cow updates: ketosis. 1.5 hr.
 - Transition cow updates: hypocalcemia. 1.5 hr.
34. American Association of Bovine Practitioners Annual Conference. Omaha, Nebraska, September 2017.
 - Methods of measurement and implications of abnormal calcium concentrations in fresh dairy cows. 1 hr.
35. New York State Fall Veterinary Conference. Ithaca, New York, October 2016.
 - Hypocalcemia and hyperketonemia in postpartum dairy cattle. 1 hr.
36. Canadian Veterinary Medical Association Annual Convention. Niagara Falls, Ontario, Canada, July 2016.
 - Hypocalcemia in postparturient dairy cattle. 1 hr.
 - Negative energy balance: individual animal diagnostics and treatment. 1 hr.
 - Negative energy balance: herd-level management. 1 hr.
37. Guelph Dairy Health Management Certificate Program. University of Guelph, Ontario, Canada, June 2016.
 - Calcium treatment economics. 1 hr.
 - Ketosis monitoring economics and treatment. 1.5 hr.
 - Transition cow disease epidemiology and cost of ketosis. 1.5 hr.
38. Cornell Dairy Center of Excellence Dairy Symposium. Ithaca, New York, April 2016.
 - The bovine metabolic athlete. 0.5 hr.
39. American College of Veterinary Internal Medicine Forum. Indianapolis, Indiana, July 2015.
 - Hyperketonemia in early lactation dairy cattle: epidemiology. 1 hr.
 - Hyperketonemia in early lactation dairy cattle: diagnostics and treatment. 1 hr.
40. Colorado Veterinary Conference. Fort Collins, Colorado, April 2014.
 - Feeding dairy heifers: birth to weaning. 1 hr.
41. Kansas State University. Manhattan, Kansas, February 2014.
 - Excessive negative energy balance in early lactation dairy cattle: the epidemiology and immunology behind hyperketonemia. 1 hr.
42. Cowbelles Veterinary Conference. Canandaigua, New York, December 2013.
 - Negative energy balance in transition dairy cattle: what to know for prevention, testing, and treatment in practice. 1.5 hr.
43. Cornell University, College of Veterinary Medicine. Ithaca, New York, December 2013.
 - Excessive negative energy balance in early lactation dairy cattle: the epidemiology, treatment, and cost of hyperketonemia. 1 hr.
44. Colorado Veterinary Conference. Fort Collins, Colorado, April 2013.
 - Transition cow monitoring in early lactation dairy cattle. 1 hr.
45. University of Illinois. Urbana-Champaign, Illinois, July 2012.
 Colorado State University. Fort Collins, Colorado, July 2012.
 Virginia Tech University. Blacksburg, Virginia, April 2012.
 - Epidemiology and treatment of subclinical ketosis in early lactation dairy cattle. 1 hr.
46. Washington State University. Mt. Vernon, Washington, February 2012.
 - Encouraging collaboration to improve herd performance with an emphasis on transition cow issues. 1 hr.

Producer, Nutritionist, and Industry Presentations:

1. Dairy Cow Health New Perspectives Conference. Beijing, China, November 2025.
 - From data to decisions: Digital health surveillance in the modern dairy herd. 1.0 hr.
 - Postpartum calcium dynamics and dyscalcemia. 1.0 hr.

2. Dairy Farm Roadshow. Multiple locations within China, October 2025.
 - Digital diagnosis of early lactation disease. 5 x 1.0 hr.
3. DairyNZ. Hamilton, New Zealand. July 2025.
 - Hypocalcemia and inflammation. 0.5 hr.
4. Keseca Veterinary Clinic Client Education Series (farmers). March 2025.
 - Got calcium? Diagnosis and treatment of hypocalcemia. 1.5 hr.
5. The Dairy Signal Webinar Series (dairy consultants, nutritionists, farmers). December 2024.
 - Fresh Cow Management. 1 hr.
6. Hoard's Dairyman Webinar (dairy consultants, nutritionists, farmers). October 2024.
 - Start 'em right with tools to ensure fresh cow success. 1 hr.
7. Chemlock Road Show (dairy consultants, nutritionists, farmer). Minnesota & Wisconsin, October 2024.
 - What is dyscalcemia? 3 x 1 hr.
 - What are the consequences of dyscalcemia and how do we prevent it? 3 x 1 hr.
8. Dairy Consulting Webinar (dairy consultants, nutritionists, farmers). Webinar, based in Japan, February 2024.
 - Updated science on hypocalcemia and hyperketonemia: risk, control, and prevention. 2 hr.
9. Australian Association of Ruminant Nutritionists Annual Conference (nutritionists). Melbourne, Australia, November 2023.
 - Calcium dynamics in early lactation. 0.75 hr.
10. 4-State Dairy Nutrition and Management Conference (producers, industry). Dubuque, Iowa, June 2023.
 - Managing fresh cows to reduce the impact of hypocalcemia & ketosis. 1 hr.
 - Got calcium? Why giving more isn't always better for postpartum hypocalcemia. 2 x 0.5 hr.
11. Dairy Herd Improvement National Roundtable. Lugo, Spain, March 2023.
 - Milk: the future of cow and herd health monitoring. 2.0 hr.
12. Advanced Dairy Nutrition and Management Shortcourse (nutritionists). Ithaca, New York, June 2022.
 - Biology, assessment, and treatment of hypocalcemia in dairy cows. 1 hr.
13. Dairy Cattle Welfare Council Seminar (producers, industry, veterinarians). Webinar, April 2022.
 - Being a mom is hard: The importance of managing hypocalcemia on dairy cow welfare. 1 hr.
14. Cargill (nutritionists). Webinar, January 2022.
 - Calcium and phosphorus regulation during the transition period. 1 hr.
15. Integrated Animal Nutrition and Health (producers). Webinar, based in China, December 2021.
 - Postpartum subclinical hypocalcemia: Highlights of recent research (given via Mandarin translation). 2 hr.
16. Phibro Animal Health, Western New York Road Show (producers, nutritionists, veterinarians). Attica, Pavillion, Perry, and Oakfield, New York, November 2021.
 - Postpartum subclinical hypocalcemia dynamics: Highlights of recent research. 5 x 1 hr.
17. Phibro Dairy Skills Academy (industry). Rochester, New York, June 2021.
 - Hypocalcemia. 2 hr.
18. Jornada Africor Lugo-Vaca Pinta (producers). Webinar, based in Spain, March 2021.
 - ¿Tienes leche?: el futuro de la monitorización de la salud en la industria láctea. 1 hr.
19. Chand Shanbeh ba Nima (producers, nutritionists, veterinarians). Live Instagram program, based in Iran, February 2021.
 - Periparturient diseases in dairy cows. 2 hr.
20. Cornell Nutrition Conference (nutritionists, industry). Webinar, October 2020.
 - Daily rollercoaster of blood and milk metrics. 0.25 hr.
21. Phibro Academy (producers). Webinar, May 2020.
 - Milk fever lite: Got calcium? Dynamics of hypocalcemia and postpartum prevention in dairy cows. 1 hr.

22. Purina Leading Dairy Producers Conference (producers, nutritionists). Wisconsin Dells, Wisconsin, January 2020.
 - Calcium demands, dynamics, and supplementation in early lactation Holsteins. 3 x 0.5 hr.
23. Phibro Northeast Producer Summit (producers). Geneva, New York, December 2019.
 - Milk fever lite: diagnosis and prevention of subclinical hypocalcemia. 1.5 hr.
24. Milk to Milk Project (producers). Webinar based in Finland, October 2019.
 - Prevention and treatment of hyperketonemia. 2 hr.
25. Boehringer Ingelheim Animal Health, Cattle First Summit (producers). Silver Springs, West Virginia, August 2019.
 - Milk fever lite: prevalence and prevention of subclinical hypocalcemia. 1 hr.
26. Phibro Animal Health, Wisconsin Road Show (producers, nutritionists, veterinarians). Sun Prairie, Curtis, and Waupun, Wisconsin, April 2019.
 - Calcium demands, dynamics, and supplementation in early lactation Holsteins. 4 x 1 hr.
27. Cornell Herd Health and Nutrition Conference (nutritionists, industry). Syracuse, New York, April 2019.
 - Current concepts in hypocalcemia. 1 hr.
28. Balchem Italy Webinar Series (nutritionists). Webinar, based in Italy, March 2019.
 - Tools to monitor and manage excessive energy deficit in early lactation. 1 hr.
29. Western Canadian Dairy Seminar (producers). Red Deer, Canada, March 2019.
 - Being a mom is hard: calcium demands of early lactation dairy cows. 0.5 hr.
30. Heartland Dairy Day (producers). Listowel, Canada, February 2019.
 - Calcium demands and dynamics: treatment of hypocalcemia in early lactation Holsteins. 0.5 hr.
31. China-US Dairy Veterinarian Training School (veterinarians, industry). Tai'an, China, October 2018.
 - Ketosis. 2 hr.
 - Hypocalcemia. 2 hr.
 - Herd-level metabolic disease management. 2 hr.
 - Interesting cases. 2 hr.
32. Boehringer Ingelheim Animal Health, New England Road Show (producers, nutritionists, veterinarians). Granville, New York; Middlebury, Vermont; Enosburg Falls, Vermont, September 2018.
 - Transitions: making health cows and calves. 3 x 2 hr.
33. Cornell Advanced Dairy Nutrition Short Course (nutritionists, industry). Ithaca, New York, June 2018.
 - Biology, assessment, and treatment of hypocalcemia in dairy cows. 1 hr.
34. Cornell PRO-DAIRY Transition Cow Webinar Series (producers). Webinar, April 2018.
 - Metabolic disease: herd-level management. 1 hr.
35. Boehringer Ingelheim Animal Health, California Road Show (producers, nutritionists, veterinarians). Davis, Modesto, Bakersfield, and Turlock, California and Phoenix, Arizona, April 2018.
 - Hypocalcemia in postpartum dairy cows: when is it good and when is it bad? 5 x 1.5 hr.
36. Virginia State Feed Association and Nutritional Management Cow College (nutritionists, industry). Roanoke, Virginia, February 2018.
 - Transition cow management: calcium health and diagnostics. 0.75 hr.
37. Path to Pounds Dairy Summit (producers). Verona, NY, November 2017.
 - Animal Health Research Update. 1.5 hr.
38. China-US Dairy Veterinarian Training School (veterinarians, industry). Tai'an, China, October 2017.
 - Introduction to the physical examination. 2 hr.
 - Introduction to transition cow diseases. 2 hr.
 - Subclinical ketosis. 2 hr.

- Subclinical hypocalcemia. 2 hr.
- 39. Central New York Dairy Peer Group Meeting (producers). Aurora, New York, April 2017.
 - Hypocalcemia: what's normal or abnormal, and what can we do about it? 1 hr.
- 40. Boehringer Ingelheim Vetmedica, Inc., Texas Road Show (producers, nutritionists, veterinarians). Clovis, New Mexico and Dalhart, Texas, March 2017.
 - Producers - Hypocalcemia: normal or abnormal? 2 x 1 hr.
 - Veterinarians - Hypocalcemia: normal or abnormal? 2 x 1.5 hr.
- 41. Southwest Nutrition Conference (nutritionists, industry, veterinarians). Tempe, Arizona, February 2017.
 - Fresh cow negative energy balance: key measures to improve decision making. 1 hr.
 - Calcium nutrition and metabolism for optimized fresh cow performance. 1 hr.
- 42. Fisher & Thompson Dairy Expo Road Show (producers). Quarryville, Pennsylvania, November 2016.
 - Raise them right: feeding dairy calves from birth to weaning. 1 hr.
- 43. DairyNZ (industry). Hamilton, New Zealand, October 2016.
 - The New York dairy industry and other exciting things! 0.5 hr.
- 44. High Plains Dairy Conference (producers, nutritionists). Lubbock, Texas, March 2016.
 - Impact and economic evaluation of negative energy balance in transition dairy cattle. 0.75 hr.
- 45. DAIReXNET, extension.org (producers, industry). Webinar, January 2016.
 - Hyperketonemia treatment at the individual cow and herd level. 0.5 hr.
- 46. Boehringer Ingelheim Vetmedica, Inc. (industry). Ithaca, New York, July 2015.
 - Dairy calf health and disease training. 8 hr.
- 47. Dairy Days (producers). Greeley, Colorado, January 2014.
 - Negative energy balance in early lactation dairy cattle: what to know for prevention, testing, and treatment. 1 hr.
- 48. Colorado Cattleman's Association Annual Meeting (producers). Denver, Colorado, January 2013.
 - Producer Driven Research. 1 hr.
- 49. Cornell Sheep and Goat Symposium (producers). Ithaca, New York, October 2010 and 2011.
 - Farm Necropsies. 2 hr.
- 50. Dairy Discovery (4-H program). Ithaca, New York, March 2010.
 - Proper Calving Procedures. 1 hr.
- 51. Cornell Cooperative Extension (producers). Hamden, New York, January 2010.
 - Managing Calf Health and Nutrition. 1.5 hr.
 - Newborn Calf Care. 1.5 hr.
- 52. Winter Management Conference and New York Beef Producer's Association Annual Meeting (producers). Waterloo, New York, January 2008.
 - Calf Scours. 1 hr.

Podcasts:

1. Dairy Digressions, April 2024.
 - Fostering belonging, gender inequality, and early lactation disease
2. Jefe Nutrition, August 2023.
 - Transition cow health and management
3. The Cornell Veterinary Podcast, May 2023.
 - Life lessons from a Cornell farm veterinarian
4. American Association of Bovine Practitioners, Have You Herd Podcast Series, November 2020.
 - Hypocalcemia – diagnosis, treatment, prevention, and future research opportunities

§ FINANCIAL SUPPORT

Current Support:

NYC-473203; McArt (PI) 10/01/25-09/30/26 \$49,046

Research Grants Program in Animal Health

Postparturient dyscalcemia: Does liver functionality contribute to calcium dysregulation in dairy cows? The goals of this project are to investigate the liver's role in early postpartum calcium dysregulation by tracking indices of liver functionality and vitamin D over time in cows with and without dyscalcemia.

NYC-478806; McArt (PI) 10/01/24-09/30/26 \$59,984

USDA-Multistate Funds

Can we diagnose excessive inflammation in early lactation dairy cows via milk and sensor technology? The goals of this project are to describe differences in early lactation estimated milk constituents between cows with and without excessive postpartum inflammation and to develop a machine learning algorithm that correctly classifies a cow as having excessive postpartum inflammation through integration of rumination, activity, and milk spectral data.

NYC-478434; McArt (PI) 10/01/24-09/30/26 \$59,932

USDA-Federal Capacity Funds

Are maternal inflammatory and calcium profiles associated with early life calf health?

The goals of this project are to describe differences in colostrum components of cows with normal versus abnormal adaptation to parturition and to assess differences in early life calf growth and health based on dam classification to normal or abnormal adaptation to parturition.

2023-67015-39667; McArt (PI) 06/01/23-05/31/27 \$650,000

USDA-NIFA: Agriculture and Food Research Initiative

Transient postparturient hypocalcemia: a critical phenomenon of high-producing dairy cows

The goals of this project are to determine the contribution of the mammary gland to postpartum calcium dynamics and the temporal association of periparturient dry matter intake, inflammation, and immune function with postpartum calcium dynamics and milk production.

N626451920002; McArt (PI) 11/15/2021-09/30/26 \$148,616

Henry M. Jackson Foundation for the Advancement of Military Medicine

Pilot study of antibody production in cows

The goal of this project is to test the bovine immune response to a candidate enteric pathogen vaccine.

Past Support:

N/A; McArt (PI) 05/01/23-09/30/24 \$24,995

American Association of Bovine Practitioners Foundation Inc.

In search of a novel cost-effective diagnostic for subclinical hypocalcemia

The goal of this project is to evaluate the use of inflammatory mediators as markers of SCH progression.

NYC-477423; McArt (PI) 10/01/22-09/30/24 \$44,078

Research Grants Program in Animal Health

Ruminant on this: What does rumination time tell us about blood calcium dynamics in early lactation dairy cows?

The goal of this project is to determine if patterns of ruminations times in the periparturient period differ between cows that experience delayed or persistent hypocalcemia compared to cows that achieve normocalcemia by 4 days in milk.

NYC-478447; McArt (PI) USDA-Federal Capacity Funds Daily measurement of milk components and somatic cells – can we diagnose mastitis in dairy cows before it happens? The goal of this project is to determine if we can diagnose mastitis in dairy cows before clinical signs are apparent using Fourier-transform mid-infrared analysis of milk.	10/01/21-09/30/24	\$58,290
N/A; McArt (PI) Boehringer Ingelheim Animal Health Do different types and times of postpartum calcium supplementation interfere or support calcium homeostasis in dairy cows? The goal of this project is to evaluate how different postpartum calcium supplementation methods, and the timing of their administration, affect blood calcium concentration and regulators of calcium metabolism, specifically parathyroid hormone and calcitonin.	06/01/21-05/01/24	\$124,471
NYC-478804; McArt (PI) USDA-Multistate Funds Monitoring cow health through milk analysis The goals of this project are to develop an algorithm using daily milk measurements that identifies an individual early-lactation cow as healthy, marginally healthy, or at risk for disease and to assess the effect of close-up prepartum ration changes on pen-level milk constituents.	10/01/20-09/30/23	\$90,000
2019-67015-29446; McArt (PI) USDA-NIFA: Agriculture and Food Research Initiative Hypocalcemia in postparturient dairy cows: our history prevents our progress The goals of this project are to identify modulatory differences in calcium homeostasis among high-producing dairy cows, determine the impact of delayed calcium administration on chronic subclinical hypocalcemia, and produce a method to determine hypocalcemia status via milk analysis.	04/15/19-04/14/23	\$500,000
NYC-478439; McArt (PI) USDA-Federal Capacity Funds Association of blood and milk energy metabolites in early lactation dairy cows The goals of this project are to determine to diurnal relationship between blood and milk NEFA and BHB concentration and develop an algorithm using milk to identify individual animals with elevated blood NEFA or BHB concentrations.	10/01/18-09/30/21	\$70,000
N/A; McArt (PI) Boehringer Ingelheim Animal Health Can blood calcium concentration be used as a prognostic indicator for post-correction success of left-displaced abomasum in early lactation dairy cows? The goal of this project is to determine the association of blood calcium concentration at the time of left-displaced abomasum correction on milk yield and removal from the herd in the following 60 days of lactation.	05/01/18-04/30/21	\$13,342
N/A; McArt (PI) Academic Venture Fund - Engaged Cornell Supplemental Grant Improving the sustainability of the dairy industry in Latin America: application and economic impact of new technologies The goal of this supplemental funding is to allow undergraduate participation and engagement in projects funded by the Atkinson Center for a Sustainable Future.	05/16/18-05/15/20	\$9,135

N/A; McArt (PI) Atkinson Center for a Sustainable Future Improving the sustainability of the dairy industry in Latin America: application and economic impact of new technologies The goals of this project are to characterize Colombian dairy farms according to management of transition dairy cows and milk production, estimate the prevalence of excessive negative energy balance, and assess factors that may influence willingness of farmers to adopt new technologies.	05/16/18-05/15/20	\$152,158
N/A; McArt (PI) Elanco Animal Health Research Service Agreement Identification and validation of biomarkers predictive of transition cow disease The goal of this project is to identify, through existing databases, robust and repeatable blood biomarkers for early lactation disease in dairy cows.	06/11/18-04/30/19	\$66,070
NYC-478432; McArt (PI) USDA-Federal Formula Funds Association of milk ketones with milk quality and health in early lactation dairy cattle The goal of this project is to determine the relationship between milk somatic cell count, milk and blood β -hydroxybutyrate, and clinical mastitis events.	10/01/15-09/30/18	\$76,950
N/A; McArt Horiba Instruments, Inc. (PI) LAQUAtwin calcium meter validation trial The goal is to validate an environmental calcium meter with a laboratory biomedical analyzer that measures ionized calcium.	12/25/14-12/31/2017	\$6,909
N/A; McArt (PI) Boehringer Ingelheim Vetmedica, Inc. Epidemiology of subclinical hypocalcemia in dairy cattle The goals of this project are to determine the optimal timing of subclinical hypocalcemia diagnosis in postpartum dairy cattle and to develop cut points for disease categorization in primiparous and multiparous cow.	11/01/16-10/31/17	\$3,795
N/A; McArt (PI) Boehringer Ingelheim Vetmedica, Inc. A comparison of Bovicalc and subcutaneous calcium on health and production parameters in postpartum multiparous cows on a New York dairy The goals of this project are to determine the effect of subcutaneous calcium, Bovicalc, or no treatment after calving on blood total calcium concentrations in multiparous dairy cows across time and assess the difference in adverse health events and early lactation milk yield between animals in these groups.	02/01/16-10/31/17	\$7,441
NYCV-478829; McArt (PI) Research Grants Program in Animal Health Evaluation of rate and duration of recovery for different ketosis treatment strategies and effects on liver function in postparturient dairy cattle The goal of this project is to evaluate the effect of different hyperketonemia treatments on hormonal regulation of glucose metabolism and plasma electrolyte changes as well as gene expression of gluconeogenic and ketogenic hepatic enzymes and liver function.	10/01/15-09/30/17	\$81,860

N/A; McArt (PI) NYSTAR – Center for Advanced Technology Development and validation of milk differential cell count technology to diagnose subclinical mastitis in dairy cows The goals of this project are to develop a method to rapidly generate accurate milk differential cell counts using an acoustic focusing cytometer and to determine the sensitivity and specificity of subclinical mastitis diagnosis by differential cell count versus somatic cell count of composite samples compared to quarter samples.	07/01/16-06/30/17	\$50,000
N/A; McArt (PI) Boehringer Ingelheim Vetmedica, Inc. (Competitive award) The effect of subclinical periparturient mineral imbalances on health and production outcomes: The role of magnesium, calcium, and potassium The goals of this project are to assess the association between hypocalcemia, hypomagnesemia, and hypokalemia in dairy cattle across the periparturient period and determine their interaction on health and production outcomes in the first 30 days in milk.	07/01/15-04/15/17	\$24,804
N/A; McArt (PI) Horiba Instruments, Inc. LAQUAtwin calcium meter field validation trial The goal of this project is to field validate a cow-side meter for detection of ionized calcium concentrations in dairy cattle.	Gift	\$8,421
N/A; McArt (PI) Phibro Animal Health LAQUAtwin calcium meter field validation trial The goal of this project is to field validate a cow-side meter for detection of ionized calcium concentrations in dairy cattle.	Gift	\$10,000
N/A; McArt (PI) President's Council of Cornell Women The association of blood calcium and β -hydroxybutyrate concentrations in periparturient dairy cattle The goal of this project is to assess the relationship between blood calcium and β -hydroxybutyrate concentrations during the periparturient period in dairy cattle.	07/01/15-06/30/16	\$8,040
N/A; McArt (PI) USDA Animal Health and Disease Research Program Pilot Study – Examining altered gastrointestinal flora of dairy cattle with hemorrhagic bowel syndrome through metagenomics The goal of this project is to define gastrointestinal flora differences between dairy cattle with and without hemorrhagic bowel syndrome.	07/01/14-06/31/15	\$29,728
N/A; McArt (PI) Dairy One Cooperative, Inc. Validation of a milk model to predict serum β -hydroxybutyrate in early lactation dairy cattle The goal of this project is to evaluate a model of hyperketonemia prediction in dairy cattle using milk β -hydroxybutyrate concentration.	Gift	\$990
N/A; McArt (PI) USDA Animal Health and Disease Research Program The association of gut microbiota and negative energy balance in the transition period of dairy cows The goal of this project is to describe the abundance of ruminal microbiota in early lactation dairy cattle diagnosed with and without hyperketonemia.	09/01/13-08/31/14	\$20,600

N/A; McArt (PI) 05/01/13-04/30/14 \$12,800
 Boehringer Ingelheim Vetmedica, Inc.
 The economics of hypocalcemia in dairy cattle
 The goal of this project is to use stochastic modeling to assess the economic impact of oral calcium supplementation on early lactation dairy cattle.

N/A; McArt (Resident) 01/01/08-12/31/08 \$6,565
 Cornell Dean's Fund for Clinical Excellence (Resident Research Grants)
 Translational biology: incorporating recent knowledge to improve reproductive efficiency in dairy cows
 The goal of this project is to determine the reproductive efficacy of a newly designed estrous synchronization program.

TEACHING

Didactic lectures

* Denotes course coordinator/co-coordinator

Name/Course Number	Year	Hours	Students
Clinical Decisions in Bovine Practice (VTMED 6896-008)*	2020-2023, 2025	8	15
Dairy Herd Epidemiology and Economics (VTMED 6568)*	2016-2023, 2025	8	15
Summer Dairy Institute	2015-2022, 2024-2025	2	26
Special Projects in Veterinary Medicine (VTMED 6898)	2020-2023, 2025	4	1
Animal Health and Disease, Part I (VTMED 5500)	2015-2023	4	120
Disorders of Large Animal Neonates (VTMED 6539)	2016-2022	2	70
Medical & Surgical Problems of Dairy Cows (VTMED 6542)	2018-2022	2	28
Animal Health and Disease, Part II (VTMED 5510)	2015-2021	3	102
Host, Agent, Defense (VTMED 5400)	2017-2021	1	120
Lactation Biology (ANSC 3410)	2020, 2022	1	30
Topics in Herd-Level Management (VTMED 6896-011)*	2020, 2021	2	30
Transition to Clinical Practice (VTMED 5614)	2020	4	120
Adv. Info. & Protocols for Dairy Pract. (VTMED 6598-706)*	2019	4	6
Dairy Nutrition for Practitioners (VTMED 6559)*	2015-2017	3	14
Ruminant Herd Medicine (VM757)*	2014	6	60
Veterinary Nutrition and Metabolism (VM623)	2014	2	135
Preventative Veterinary Medicine (VM714)	2013	2	135
Dairy Herd Health Analysis (VM786A)*	2013, 2014	6	12

Labs

Name/Course Number	Year	Hours	Students
Bovine Physical Exam OSCE, Block VIIf (VTMED 5706)	2016-2023, 2025	4	125
Farm Animal Surgical Techniques (VTMED 6529)	2016-2023, 2025	8	20
Bovine Clinical Skills Lab, Block VIIc (VTMED 5703)	2017	6	125
Bovine Physical Exam OSCE, Block VIIc (VTMED 5703)	2016-2023, 2025	4	125
Bovine Clinical Procedures, Block VIId (VTMED 5704)	2015-2018	4	25
Bovine Physical Exam, Block VIIa (VTMED 5701)	2015	8	125
Food Animal Anesthesia and Surgery Lab (VM786A)	2013	20	25
Large Animal Procedures Lab (VM786A)	2013	8	135

Extra-curricular lectures & panels	Year	Attendance
Cornell Animal Science Graduate Student Association	2025	83
<ul style="list-style-type: none"> Empowering Diversity: A panel on women's career development in animal science 		
Cornell American Association of Bovine Practitioners' Student Club	2022	30
<ul style="list-style-type: none"> Lunchtime rounds cases 		
Bovine health management for early-career rural veterinarians, online distance education; USDA Veterinary Services Grant Program	2021	20
<ul style="list-style-type: none"> Production medicine economics, 6.0 hr. online module 		
Cornell American Association of Bovine Practitioners' Student Club	2016	20
<ul style="list-style-type: none"> Diagnosis and correction of displaced abomasa. 1 hr. 		
Cornell American Association of Bovine Practitioners' Student Club	2015-2022	30
<ul style="list-style-type: none"> Bovine palpation. 1 hr. 		
Cornell American Association of Bovine Practitioners' Student Club	2015	15
<ul style="list-style-type: none"> Transition cow diseases. 1 hr. 		

Clinical teaching

* Denotes course coordinator

Name/Course Number	Year/Hours
Ambulatory & Production Medicine Service (VTMED 5600)	2014-2022
<ul style="list-style-type: none"> Course coordinator 2017-2022 2-week required rotation for all clinical veterinary students Clinical training of 1-3 students/week in medical, surgical, emergency, and husbandry management of dairy cattle, small ruminants, and horses Clinical training of 3 interns/residents in advanced ambulatory medicine, dairy records and management strategies, and applied research methods Clinical service to clients in a 25-miles radius of Cornell University with a special emphasis on dairy production medicine in herds ranging from 2 to 4,100 milking animals 	52 weeks/year 25 hours/week
	2022-2023 12 hours/week
	2024-present 6 hours/week
Special Topics in Ambulatory & Production Medicine (VTMED 6615)*	2016-2025
<ul style="list-style-type: none"> Organization of 15 production track students/year in a 2-week rotation designed to improve knowledge and skills regarding production systems Examples of focus areas include livestock production medicine, poultry and fish farming, milk quality assessment, small ruminant medicine, herd management experience, and specialized diagnostic testing Duties include processing applications, contacting mentors for feedback, facilitating student presentation of the experience at a student club event 	6 hours/year
Cornell-Ghent Exchange Program (Opportunity Block)*	2016-present
<ul style="list-style-type: none"> Organization of an annual exchange between clinical veterinary students at Cornell University and Ghent University, Belgium 3-4 Cornell students travel to Ghent University for a 2-week externship in bovine C-sections; 2 Ghent students visit to Cornell and participate in a 4-week rotation with the Ambulatory Clinic Duties include facilitation of discussion between administration and evaluation and selection of student applicants 	4 hours/year
Dairy Field Service (VM786B) – Colorado State University	2013-2014
<ul style="list-style-type: none"> Clinical training of 2-3 students/week in medical, surgical, husbandry, and management techniques in dairy cattle 	40 hours/week 26 weeks/year

Herd Management (VM786B) – Colorado State University	2013-2014
<ul style="list-style-type: none"> Clinical training of 4-6 students/week in dairy and beef herd management strategies, product processing, and media training 	20 hours/week 2 weeks/year
Lambing Management (VM786B) – Colorado State University	2013
<ul style="list-style-type: none"> Clinical training of 2-4 students/week in medical and surgical techniques of ewes and lambs on a 4,700-ewe flock 	30 hours/week 1 week/year
Clinical pathway oversight	
Foundation Course VI, Production pathway	2018-present

ADVISING

FACULTY

Faculty Mentor

Barbara Delvescovo, DVM, DACVIM, DACVECC	Assistant Professor Large Animal Internal Medicine & Emergency and Critical Care	2025-present
Matthias Wieland, DVM, DECBHM, PhD	Assistant Professor Quality Milk Production Services	2022-2024
Taika von Königslöw, MSc, DVM, DVSc	Assistant Professor Ambulatory and Production Medicine	2022-2024
Ian Porter, DVM, DACVR	Assistant Clinical Professor Radiology	2020-2023
Casey Cazer, DVM, PhD	Assistant Professor Epidemiology	2020-present

TRAINEES/ASSOCIATES

Postdoctoral Associates

Dan Lin, MS, PhD	Project: Use of milk spectra and sensory technology to predict health and disease in dairy cows	2024-present
Kathryn Bach, MS, DVM, PhD	Project: Can blood calcium concentration be used as a prognostic indicator for post-correction success of left-displaced abomasum in early lactation dairy cows? Current position: Assistant Professor of Practice, Cornell University	2020
Sabine Mann, DVM, PhD, DipECBHM, Dip ACVPM	Project: Evaluation of rate and duration of recovery for different ketosis treatment strategies and effects on liver function in postparturient dairy cattle Current position: Associate Professor, Cornell University	2016-2017

GRADUATE STUDENTS**Cornell University, Faculty Member, Graduate Fields**

Epidemiology (minor field)	2015-present
Biomedical and Biological Sciences	2015-present
Animal Science	2014-present

Major Advisor

Katherine Gottwald	PhD in Animal Science	2024-present
Jackson Seminara, PhD	PhD in Biomedical and Biological Sciences Current position: Combined DVM/PhD Program	2022-2025
Claira Seely, MS, PhD	PhD in Animal Science Current position: Assistant Professor, University of New Hampshire	2019-2023
Kathryn Bach, DVM, MS, PhD	PhD in Animal Science Current position: Assistant Professor of Practice, Cornell University	2015-2019
Rafael Neves, DVM, MS, PhD	PhD in Comparative Biomedical Sciences Current position: Associate Professor, Purdue University	2013-2017

Minor Advisor

Sabina Pokharel, BVSc, MS	PhD in Animal Science Major advisor: Dr. Joe McFadden	2025-present
Francesca Pharo, MS	PhD in Animal Science (University of New Hampshire) Major advisor: Dr. Claira Seely	2025-present
Tyler Ward, LVT, MPH	PhD in Animal Science Major advisor: Dr. Taika von Königslöw	2024-present
Jia Liu	PhD in City U – Cornell Collaborative Program Major advisor: Dr. Alan McElligot	2024-2025
Victoria Ramos	MS in Animal Science Major advisor: Dr. Joe McFadden	2024-2025
Liza Ferro	MS in Animal Science Major advisor: Dr. Tom Overton	2023-2025
Elizabeth Louie, DVM	PhD in Biomedical and Biological Sciences Major advisor: Dr. Katharyn Mitchell	2023-present
Katherine Gottwald	PhD in Animal Science Major advisors: Drs. Mike Van Amburgh & Daryl Nydam	2023
Virginia Sandford	MS in Biomedical and Biological Sciences Employee Degree Program Major advisor: Dr. Diego Diel	2022-present
Geneva Graef	PhD in Animal Science Major advisor: Dr. Tom Overton	2020-2024
Clara Rial, DVM, PhD	PhD in Animal Science Major advisor: Dr. Julio Giordano	2020-2023
Dan Lin, MS, PhD	PhD in City U – Cornell Collaborative Program Major advisor: Dr. Jun Li	2019-2023
Yue Hei (Andy) Leung	PhD in City U – Cornell Collaborative Program Co-major advisors: Akos Kenez & Sabine Mann	2019-2021
Allison Kerwin, PhD	PhD in Animal Science Major advisor: Dr. Tom Overton	2015-2021
Leonardo Bringhenti, DVM, PhD	PhD in Animal Science Major advisor: Dr. Rodrigo Bicalho	2018-2021

Asha Miles, MS, PhD	PhD in Animal Science Major advisor: Dr. Heather Huson	2015-2019
Sarah LaCount, PhD	PhD in Animal Science Major advisor: Dr. Tom Overton	2015-2019
Cassandra Stambuk, PhD	PhD in Animal Science Major advisor: Dr. Heather Huson	2016-2019
Martin Zinicola, DVM, PhD	PhD in Animal Science Major advisor: Dr. Rodrigo Bicalho	2016-2018
Francisco Leal Yepes, DVM, PhD	PhD in Animal Science Major advisor: Dr. Daryl Nydam	2015-2018
Britany Leno, PhD	PhD in Animal Science Major advisor: Dr. Tom Overton	2015-2017
Svetlana Lima, DVM, PhD	PhD in Animal Science Major advisor: Dr. Rodrigo Bicalho	2015-2017
Andre Teixeira, DVM, PhD	PhD in Animal Science Major advisor: Dr. Rodrigo Bicalho	2015-2017

Rotating Graduate Student

Eric Teplitz, DVM	Graduate Field: Biomedical and Biological Sciences Project: Prediction of early-lactation health and disease in dairy cows using estimated milk constituents	Fall 2021
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External Examiner/Advisor

2020	Rita Couto Serrenho, PhD, University of Guelph, Ontario, Canada; examiner
2018	Andrew Smith, BVSc (honors), Charles Sturt University, Wagga Wagga, Australia; advisor
2016	Elise Tatone, PhD, University of Guelph, Ontario, Canada; examiner
2014	Pim Mostert, PhD Candidate, Wageningen Institute of Animal Sciences, The Netherlands; PhD project proposal reviewer

RESIDENT / INTERN MENTORING**Cornell University, Ambulatory and Production Medicine Clinic, Residents and Interns**

Dr. Hannah McCray (resident)	2025-present
Dr. Katharine Woodmansee (intern)	2025-present
Dr. Sofia Gamba (intern)	2025-present
Dr. Taylor Williams (resident)	2024-present
Dr. Aleksey Huff (intern)	2024-2025
Dr. Christina Baker (resident)	2023-2025
Dr. John Nystrom (intern)	2022-2023
Dr. Mark O'Connor (intern/resident)	2021-2022 (intern), 2022-2023 (resident)
Dr. Isabelle Louge (resident)	2020-2022
Dr. Julia Berger (intern)	2020-2021
Dr. Margot Hayes (resident)	2019-2020 (not completed due to coronavirus)
Dr. Samantha Sangster (intern)	2019-2020 (not completed due to coronavirus)
Dr. Amanda Cordero (intern)	2018 (not completed)
Dr. Renato Rossi (resident)	2017-2019
Dr. Qiu Di Zheng (intern/resident)	2017-2018 (intern), 2018-2020 (resident)
Dr. Francisco Leal-Yepes (resident)	2016-2018
Dr. Antonia Domino (resident)	2015-2017
Dr. Vinicius Machado (resident)	2015-2017
Dr. Sage Buckner (intern)	2015-2016
Dr. Jennifer Pearson (resident)	2014-2015
Dr. Matthias Wieland (resident)	2014-2015
Dr. Martin Zinicola (resident)	2014-2015

Colorado State University, Food Animal Medicine and Surgery, Residents and Interns

Dr. Andrea Lear (resident)	2013-2014
Dr. Luisa Taylor (intern)	2013-2014
Dr. Kathryn Bach (intern)	2013-2014
Dr. Jessica Collier (intern)	2013
Dr. Sarah Raabis (intern)	2013

OTHER MENTORING ACTIVITIES**Resident Research**

Dr. Antonia Domino	Ambulatory and Production Medicine, Cornell University Project: A comparison of oral vs. subcutaneous calcium on postpartum dairy cow health	2015-2017
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Professional Veterinary Medicine, Student Research Mentoring

Markus Güttler	Vet Investigation & Leadership Program, Cornell University Project: Labor duration and postpartum systemic inflammation in dairy cows	Summer 2025
Hannah McCray	McArt Dairy Cow Lab, Cornell University Project: Does knowledge of blood calcium at 2 days in milk impact decisions of calcium supplementation?	2022-2023
Jackson Seminara	Veterinary Investigator Program, Cornell University Project: Calcium metabolism and associated patterns of milk constituents in early lactation dairy cows	Summer 2021
Julia Brigandi	Veterinary Investigator Program, Cornell University Project: Does postpartum calcium supplementation interfere with homeostasis of dairy cows?	Summer 2020
Isabella Knecht	Veterinary Investigator Program, Cornell University Project: Does intravenous treatment with dextrose improve health and production outcomes for ketotic dairy cows?	Summer 2019
Meghan Oswald	Veterinary Investigator Program, Cornell University Project: The effect of transdermal flunixin meglumine on resolution of otitis media in pre-weaned Holstein heifers	Summer 2018
Stephanie Tarlowe	Veterinary Investigator Program, Cornell University Project: Diagnostic accuracy of Keto-Test milk strips for cow-side detection of elevated milk β -hydroxybutyrate	Summer 2016
Isabelle Louge	Veterinary Investigator Program, Cornell University Project: The bioavailability of single-administration oral calcium supplementation in postpartum dairy cattle	Summer 2015

Professional Veterinary Medicine, Student Mentor – Cornell White Coat Ceremony

Class of 2024	Hannah McCray
Class of 2023	Alexandra Attenasio
Class of 2022	Julia Brigandi
Class of 2021	Meghan Oswald, Matilda Solinger, Alyssa Weld
Class of 2020	Dayna Locitzer
Class of 2019	Elizabeth Balter, Alicia Chisholm, Kerry Schneider, Stephanie Tarlowe
Class of 2018	Isabelle Louge
Class of 2017	Molly Hunt
Class of 2013	Judy Alishauskas, Caitlin Jeffry

Professional Veterinary Medicine, Faculty Advisor

Class of 2029	Emily Mayo, Erin Przybylski
Class of 2028	Zoe Liberman, Amy Stabell
Class of 2026	Francesca Buchalski, Anna Ward
Class of 2025	Amber Davis, Tuuli Overturf
Class of 2024	Claire DiLeo, Sonja Meberg
Class of 2023	Emma Kline
Class of 2022	Gabrielle Brewster, Amelia Rogus, Joseph Yacobucci
Class of 2021	Mary Beth Hannon, Meghan Oswald
Class of 2020	Dayna Locitzer, J. Hunter Reed
Class of 2019	Kristina Kronauer, John Leahy, Maggie Milano

Professional Veterinary Medicine, Senior Seminar Advisor

Tuuli Overturf '25	Ruminal drinking in a 21-day-old Holstein calf
Haley Hardie '25	Elective caesarian section on a Holstein dairy cow
Benjamin Specht '25	Uterine prolapse in a 4-year-old Holstein cow
Church Humphreys '25	Management of schistosomus reflexus in several New Zealand dairy cows
Seth Shirky '24	Spontaneous humeral fracture in a New Zealand dairy heifer
Emma Cijka '23	Listeriosis in a Nubian wether
Ali Attenasio '23	Lymphosarcoma in a 4 th lactation Holstein cow
Elisabeth Regusci '23	Management of clinical endometritis in dairy cattle in New Zealand grazing herds
Olivia Cox '20	A case of juvenile bovine lymphosarcoma in a 6-month-old Holstein heifer
Melissa Kieffer '20	Small cattle farm with management deficiencies – a veterinarian's role in animal welfare
Dayna Locitzer '20	Wintertime outbreak of infectious bovine keratoconjunctivitis on a New York dairy
Tracy Potter '20	Clostridial abomasitis in a two-month-old Holstein calf
Megan Esbenshade '20	Spiral humeral fractures in New Zealand dairy cattle
Sarah Zeger '20	Cesarean section in a 5-year-old Charolais cow and economic decision making for bovine Cesarean sections
J. Hunter Reed '20	A quality milk evaluation for an upstate New York dairy
Elizabeth Balter '19	Pemphigus foliaceus in a 26-year-old Hackney pony mare
Alicia Chisholm '19	Abnormal presentation of a right-displaced abomasum in a dairy cow
Stephanie Tarlowe '19	Clostridial abomasitis in a Holstein calf
Shanina Halbert '19	Septicemia and failure of transfer of passive immunity in dairy heifers
John Leahy '19	Cesarean section in a multiparous Holstein and the economic decision making of C-sections in the dairy industry
Kyle Nugent '19	Mycotic placentitis in a first calf Holstein heifer
Elizabeth Alexander '18	Right-sided abomasal displacement in a two-month-old Ayrshire heifer
Alexa McCourt '18	Atresia coli in a newborn Holstein calf
Kaitlyn Briggs '17	Herd mastitis outbreak on a large dry-lot dairy
Rebecca Remeika '17	Rumen acidosis in a 10-year-old Lamancha wether

Undergraduate Student, Research Mentoring

Julia Poggi	Senior Honors Thesis, Cornell University	2024-2025
	Project: Relationship between calcium supplementation and dycalcemia-associated inflammation in early lactation dairy cows	
Ian Frost	Undergraduate Research, Cornell University	2021-2022
	Project: Does type and time of postpartum calcium supplementation interfere or support calcium homeostasis in dairy cows?	

Sofie Wilson	Undergraduate Research, Cornell University Project: Using β -hydroxybutyrate concentrations in milk and blood samples during early lactation for herd-level monitoring to predict an increased risk of disease <i>*2nd place, 2019 New York State Collegiate Science and Technology Entry Program Poster Competition*</i>	2018
Danielle Harris	Senior Honors Thesis, Cornell University Project: The effect of storage environment on the stability of somatic cells in cow milk	2015-2016
High School Student, Research Mentoring		
Thea Clarkberg	New Visions Program Project: The effect of temperature on blood β -hydroxybutyrate concentration and stability	2017-2018

 **COMMITTEES**
Cornell University – University Level

2022	Reviewer, Environmental Defense Fund – Cornell Atkinson Grant
2020	Grant Review Panel, Atkinson Center – Academic Venture Fund
2017-present	Faculty Fellow, Atkinson Center for a Sustainable Future
2016-present	Faculty Fellow & Leadership Team, Dairy Center of Excellence
2016-2019	Alternate, Faculty Senate, Dept. of Population Medicine and Diagnostic Sciences

Cornell University – College Level

2025	College of Agriculture and Life Science, Dept. of Animal Science Search Committee, Cornell University Ruminant Center Management Company
2023	College of Veterinary Medicine Transformative Research Strategic Planning Focus Group
2023	College of Veterinary Medicine, Dept. of Biomedical Sciences Search Committee, Department Chair
2022-present	College of Veterinary Medicine Faculty Administrative Board
2022	College of Agriculture and Life Science, Dept. of Animal Science Search Committee, Dairy Fellows Alumni Senior Lecturer
2021	College of Veterinary Medicine, Professional Veterinary Medicine Program Admissions Committee, Class of 2026
2021	College of Veterinary Medicine, Dept. of Clinical Sciences Search Committee, Assistant/Associate Professor, Large Animal Surgery (Orthopedics)
2021	College of Veterinary Medicine, Dept. of Population Medicine and Diagnostic Sciences Search Committee, Director of Operations and Business
2021	College of Veterinary Medicine, Dept. of Population Medicine and Diagnostic Sciences Search Committee, Administrator II
2021-present	College of Veterinary Medicine, Promotion Review <i>Ad hoc</i> committee (3 dossiers)
2021-2023	College of Veterinary Medicine, Professional Veterinary Medicine Program Milestone Advisory Group
2020	College of Veterinary Medicine, Dept. of Clinical Sciences Search Committee, Assistant/Associate Professor, Large Animal Surgery (Soft Tissue)

2020-2023	College of Veterinary Medicine Committee on the Status of Faculty Women
2019-2023	College of Veterinary Medicine Veterinary Research Training Committee
2019, 2022	College of Veterinary Medicine, Dept. of Population Medicine and Diagnostic Sciences Search Committee (Chair), Assistant Professor, Ambulatory and Production Medicine
2019-2020	College of Veterinary Medicine, Professional Veterinary Medicine Program Production Faculty Advisor, Student American Vet Medical Association Symposium
2019	College of Veterinary Medicine Search Committee, Veterinary Economist
2018	College of Veterinary Medicine, Cornell University Hospital for Animals Search Committee, Operations Manager – Community Practice Service
2017	College of Veterinary Medicine, Cornell University Hospital for Animals Equipment Request Committee
2017	College of Veterinary Medicine, Dept. of Population Medicine and Diagnostic Sciences Search Committee, Department Chair
2016	College of Veterinary Medicine Strategic Planning Committee, Clinical and Diagnostic Services
2016	College of Veterinary Medicine, Cornell University Hospital for Animals Search Committee, Hospital Director
2016	College of Agriculture and Life Science, Dept. of Animal Science Search Committee, Assistant Professor of Dairy Nutrition and Metabolism
2015	College of Veterinary Medicine, Dept. of Population Medicine and Diagnostic Sciences Search Committee (Chair), Director of Teaching Dairy Barn and Senior Lecturer

External Committees

2024, 2025	Swiss National Science Foundation Project Funding Grant Review
2024-present	USDA-NIFA Veterinary Medicine Loan Repayment Plan Rural Animal Health Advocate Committee
2024	USDA-NIFA Conference Grant Review
2022	Ontario Agri-Food Innovation Alliance Research Program Grant Review
2019, 2025	Canada Research Chair Grant Review Committee
2017, 2019	Ontario Ministry of Agriculture, Food and Rural Affairs Grant Review
2017-present	External University Promotion Evaluation Review (13 dossiers)



PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Professional Organization Memberships

2011-present	American Dairy Science Association
2007-present	American Association of Small Ruminant Practitioners
2007-present	New York Veterinary Medical Association
2007-present	American Veterinary Medical Association
2004-present	American Association of Bovine Practitioners
2018	American Association of Veterinary Laboratory Diagnosticians
2013-2014	Colorado Veterinary Medical Association

Licenses and Accreditations

- 2007-present National Veterinary Accreditation, USDA Category II (017665)
- 2007-present State Veterinary License, New York (010575)

Professional Association Committees/Boards

- 2025-present Board of Directors
American Dairy Science Association
- 2025-present Dairy Advisory Board
Phibro Animal Health
- 2024-present Foundation Board
American Association of Bovine Practitioners
- 2024-present Research Summaries Abstract Review Committee; Annual Conference
American Association of Bovine Practitioners
- 2024-present Journal Advisory Board
American Dairy Science Association
- 2023 Planning Committee, Clinical Skills; Annual Conference
American Association of Bovine Practitioners
- 2023-present Credential Committee, Case Review
American Board of Veterinary Practitioners
- 2021-present Diversity, Equity, and Inclusion Committee
American Association of Bovine Practitioners
- 2019 Planning Committee, Dairy Sessions; Annual Conference
American Association of Bovine Practitioners
- 2017-2023 Cornell Faculty Representative
American Association of Bovine Practitioners
- 2016-2022 Student Activities Committee
American Association of Bovine Practitioners
- 2018 Planning Committee; 35th Discover Conference
American Dairy Science Association
- 2016 Planning Committee, Research Summary Lead Coordinator; Annual Conference
American Association of Bovine Practitioners
- 2015 Planning Committee, Research Summary Co-Coordinator; Annual Conference
American Association of Bovine Practitioners

Professional Judging/Moderating Committees

- 2025 Chair, ADSA Foundation Scholar Award—Production Division Selection Committee
American Dairy Science Association
- 2022-2024 Graduate Student Research Competition: ADSA Production Poster (MS/PhD)
American Dairy Science Association Annual Meeting
- 2021-2022 Graduate Student Research Presentation Judge
American Association of Bovine Practitioners Annual Conference
- 2021 Graduate Student Research Presentation Judge
Canadian Emerging Veterinary Scholars Summit

Ad-Hoc Reviewer

- 2020-present *JDS Communications*
- 2018 *New Zealand Veterinary Journal*
- 2018, 2023 *PLOS ONE*
- 2017 *Journal of Veterinary Internal Medicine*
- 2017 *American Journal of Veterinary Research*

2015-2016	<i>Veterinary Clinical Pathology</i>
2015	<i>An International Journal of Animal Bioscience</i>
2014-present	<i>Journal of Dairy Science</i>
2014	<i>The Veterinary Journal</i>
2014	<i>Preventative Veterinary Medicine</i>

TRAINING COURSES

Leadership Training

2026	Financial Success for Nonprofits Certificate Program, eCornell
2025-2026	Cornell Academic Leadership Series
2023	Women in Leadership Certificate Program, eCornell
2021-2022	Leadership Academy, American Association of Veterinary Medical Colleges Webinars and Washington D.C.

Foreign Animal Disease Training

2013	Foreign Animal Disease Training Course, Animal Population Health Institute / Centers for Epidemiology and Animal Health, VS-APHIS-USDA; Fort Collins, CO
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Diversity, Equity, Inclusion, and Belonging Training

2022	Advanced Intergroup Dialogue Program Intergroup Dialogue Project, Cornell University; 3 x 2.0 hr.
2020-2021	Building Connections with Dialogue Program Intergroup Dialogue Project, Cornell University; 5 x 2.0 hr.
2020	Engaging in Conversations on Racism – Intergroup Dialogue Session for Faculty Intergroup Dialogue Project, Cornell University; 2.0 hr.
2016	Effective Search Practices: It Depends on the Lens Cornell University; 1.5 hr.