

## Alejandro Relling

### 1) Experticia

#### a) Títulos

Denominación de la carrera: Medicina veterinaria  
Institución otorgante del título: UNLP  
Fecha ingreso: 1994      Fecha egreso: 1998

Denominación de la carrera: Masters in Animal Sciences  
Institución otorgante del título: The Ohio State University  
Fecha ingreso: 2003      Fecha egreso: 2006

Denominación de la carrera: PhD  
Institución otorgante del título: The Ohio State University  
Fecha ingreso: 2006      Fecha egreso: 2009

#### b) Cargo en el IGEVET

Investigador Correspondiente

Fecha Inicio: Julio 2021.

#### c) Línea de trabajo

**Nutrición y metabolismo en rumiantes**

### 2) Cargo/s Docente/s.

2021-Presente Associate Professor, Department of Animal Sciences, The Ohio State University

### 3) Cargo en Gestión

Director Asistente del Doctorado interdepartamental de Nutrición de The Ohio State University

**3) Trabajos Publicados aclarar si es con referato: se deberá especificar el número total y detallar últimos cinco años: Autor/es, año de publicación. Título, revista, volumen, páginas, doi si lo tuviera.**

**Total: 70**

1. Rosa-Velazquez, M., J. M. Pinos-Rodriguez, A. J. Parker, and A. E. Relling. 2022. Maternal supply of a source of omega-3 fatty acids and methionine during late gestation on the offspring's growth, metabolism, carcass characteristic, and liver's mRNA expression in sheep. *J. Anim. Sci.* doi:10.1093/jas/skac032
2. Pittaluga, A. M., C. Chris, and A. E. Relling. 2021. Effect of protein source and nonroughage NDF content in finishing diets of feedlot cattle fed free-choice hay on growth performance and carcass characteristics. *Translational Animal Science*. txab224 doi: 10.1093/tas/txab224
3. Nickles, K. R., A. E. Relling, and A. J. Parker. 2021. Intranasal oxytocin treatment on the day of weaning does not decrease walking behavior or improve plasma metabolites in beef calves placed on pasture. *Translational Animal Science*. txab191. Doi: 10.1093/tas/txab191
4. Pittaluga, A. M.; T. L. Felix, L. E. Moraes, and A. E. Relling. 2021. Effects of increasing levels of soybean hulls in finishing diets of feedlot cattle fed free-choice hay on performance, roughage intake, and carcass characteristics. *Applied Animal Science*. 37:525-532. doi: 10.15232/aas.2021-02173
5. Sánchez, N., H. A. Lee-Rangel, I. Martínez-Cortés, G. D. Mendoza, P. A. Hernández, E. Espinoza, Enrique; A. Vazquez-Valladolid, R. Flores Ramírez, A. Roque-Jimenez, M. Campillo-Navarro, and A. E. Relling. 2021. A polyherbal phytogenic additive improved growth performance, health, and immune response in dairy calves. *Food and Agricultural Immunology*. 32:482-498. Doi: 10.1080/09540105.2021.1967296
6. Wagner, B. K., A. E. Relling, J. D. Kieffer, and A. J. Parker. 2021. Brief communication: Plasma cortisol concentration is affected by lactation, but not intra-nasal oxytocin treatment, in beef cows. *Plos one*,16,7,e0249323. doi: 10.1371/journal.pone.0249323
7. Carranza- Martín, A. C., N. Nikoloff, J. P. Anchordoquy, J. M. Anchordoquy, A. E. Relling, and C. C. Furnus. 2021. Ghrelin antagonist D- Lys3- GHRP- 6 counteract ghrelin effects in bovine cumulus- oocytes complexes matured in vitro. *Reproduction in Domestic Animals*,56,9,1235-1242. doi: 10.1111/rda.13982
8. Cifuentes-Lopez, O., H. A. Lee-Rangel, G. D. Mendoza, P. Delgado-Sanchez, L. Guerrero-Gonzalez, A. Chay-Canul, J. M. Pinos-Rodriguez, R. Flores-Ramírez, J. A. Roque-Jiménez, A. E. Relling. 2021. Effects of Dietary Calcium Propionate Supplementation on Hypothalamic Neuropeptide Messenger RNA Expression and Growth Performance in Finishing Rambouillet Lambs. *Life*.11, 566. doi: 10.3390/life11060566
9. Roque-Jiménez, J. A., M. Rosa-Velázquez, J. M. Pinos-Rodríguez, J. G. Vicente-Martínez, G. Mendoza-Cervantes, A. Flores-Primo, H. A. Lee-Rangel, and A. E. Relling. 2021. Role of Long Chain Fatty Acids in Developmental Programming in Ruminants. *Animals*. 11, 762. <https://doi.org/10.3390/ani11030762>
10. Rosa-Velazquez, M., J. R Jaborek, J. M Pinos-Rodriguez, and A. E. Relling. 2021. Maternal Supply of Fatty Acids during Late Gestation on Offspring's Growth, Metabolism, and Carcass Characteristics in Sheep. *Animals* 11, 719. <https://doi.org/10.3390/ani11030719>
11. Oviedo-Ojeda, M. F., J. A. Roque-Jiménez, M. Whalin, H. A. Lee-Rangel, and A. E. Relling. 2021. Effect of supplementation with different fatty acid profile to the dam in early gestation and to the offspring on the finishing diet on offspring growth and hypothalamus mRNA expression in sheep, *Journal of Animal Science*, skab064,
12. Galarza, E. M., R. M. Lizzarraga, G. A. Mattioli, A. J. Parker, and A. E Relling. 2021. Effect of pre-shipment preconditioning and injectable antioxidant trace elements (Cu, Mn,

Se, Zn) and vitamins (A, E) on plasma metabolite and hormone concentrations and growth in weaned beef cattle, *Translational Animal Science*. txaa233, doi:10.1093/tas/txaa233

13. Nickles K. R., A. E. Relling, L. E. Moraes, and A. J. Parker. 2020. The effect of a social facilitator cow on the distance walked and time spent walking by abruptly weaned beef calves. *Animal Production Sciences*. doi: /10.1071/AN20434
14. Freitas, T. B., T. L. Felix, C. Clark, F. L. Fluharty, and A. E. Relling. 2020. Effect of feeding dry-rolled corn or whole shelled corn during the finishing phase on growth performance and carcass characteristics. *Translational Animal Science*. doi: 10.1093/tas/txaa228
15. Rosa-Velazquez, R., F. Batistel, J. M. Pinos-Rodriguez, and A. E. Relling. 2020. Effects of maternal dietary omega-3 polyunsaturated fatty acids and methionine during late gestation on fetal growth, DNA methylation, and mRNA relative expression of genes associated with the inflammatory response, lipid metabolism, and DNA methylation in placenta and offspring's liver in sheep. *J. Anim Sci. and Biotechnology*. Accepted. doi: 10.1186/s40104-020-00513-7.
16. Menichetti, B. T., J. M. Piñeiro, A. A. Barragan, A. E. Relling, A. Garcia-Guerra, and G. M. Schuenemann. 2020. Association of prepartum lying time with nonesterified fatty acids and stillbirth in prepartum dairy heifers and cows. *J. Dairy Sci.* 103: 11782-11794. (Data interpretation)
17. Sears, A., O. Gonzalez, A. Alberto, J. De Souza, A. Young, A. E. Relling, and F. Batistel. 2020. Impact of feeding a palmitic acid-enriched supplement on production responses and nitrogen metabolism of mid-lactating Holstein and Jersey cows. *J Dairy Sci.* 103: 8898-8909. doi: 10.3168/jds.2020-18232
18. Carranza Martin, A. C., A. J. Parker, C. Furnus, and A. E. Relling. 2020. Ghrelin antagonist overrides the mRNA expression of NPY in hypothalamus in feed restricted ewes. *Plos one* 15: e0238465. doi: 10.1371/journal.pone.0238465
19. Roque-Jiménez J. A., G. D. Mendoza-Martínez, A. Vázquez-Valladolid, M. L. Guerrero-González, R. Flores-Ramírez, J. M. Pinos-Rodriguez, J. J. Loo, A. E. Relling, and H. A. Lee-Rangel. Supplemental herbal choline increases 5-hmC DNA 3 on whole blood from pregnant ewes and offspring. *Animals*. 10:1277. 10.3390/ani10081277
20. Duff, A., L. Bielke, and A. E. Relling. 2020. Technical Note: Fluorescein as an indicator of enteric mucosal barrier function in pre-ruminant lambs. *J Anim Sci.* 98:1-6. doi: 10.1093/jas/skaa198
21. Relling, A. E., D. D. Clevenger, and F. L. Fluharty. 2020. Effect of oscillating feeding time and corn processing on performance and carcass characteristics in feedlot steers. *Translational Animal Science*. 4: taxx103. doi: 10.1093/tas/txaa103
22. de Assis, R. G., J. S. Biava, D. M. Polizel, T.T. de Souza, T.U. Sturion, A. V. Pires, A. E. Relling, and E. M. Ferreira. 2020. Use of narasin in diets for lactating ewes. *Small Ruminant Research*. 187:106108. doi: 10.1016/j.smallrumres.2020.106108
23. Roque-Jimenez, J. A., M. F. Oviedo-Ojeda, M. Whalin, H. A. Lee-Rangel, and A. E. Relling. 2020. Eicosapentaenoic and docosahexaenoic acid supplementation during early gestation modified relative abundance on placenta and fetal liver tissue mRNA and concentration pattern of fatty acids in fetal liver and fetal central nervous system of sheep. *Plos ONE* 15: e0235217. doi: 10.1371/journal.pone.0235217
24. Carranza-Martin A. C., A. J. Parker, C. C. Furnus, and A. E. Relling. 2020. Ghrelin antagonist regulates metabolic hormone receptors in the hypothalamus of ewes. *Small Ruminant Research*. doi: 10.1016/j.smallrumres.2020.106091
25. Wagner, B. K., A. E. Relling, J. D. Kieffer, L. E. Moraes, and A. J. Parker. 2020. Short communication: pharmacokinetics of oxytocin administered intranasally to beef cattle.

26. Wagner, B. K., A. E. Relling, J. D. Kieffer, and A. J. Parker. 2020. Intranasal oxytocin treatment does not attenuate the hypothalamo-pituitary-adrenal axis in beef heifers subjected to isolation stress or restraint and isolation stress. *Domestic Animal Endocrinology*. 70:106379. doi: 10.1016/j.domaniend.2019.07.007
27. Jaborek, J. R., A. E. Relling, F. L. Fluharty, S. J. Moeller, and H. Zerby. 2020. Opportunities to improve the accuracy of the United States Department of Agriculture beef yield grade equation through precision agriculture. *Translational Animal Science*. 4: txaa033. doi: 10.1093/tas/txaa033
28. Jaborek, J. R., and A. E. Relling. 2020. Short communication: Effects of low antioxidant mineral concentrations in the growing diet on marbling deposition in feedlot cattle. *Applied Animal Science*. 36:249-255. doi: 10.15232/aas.2019-01903
29. Freitas, T. B., T. L. Felix, W. Shriver, F. L. Fluharty, and A. E. Relling. 2020. Effect of corn processing on growth performance, carcass characteristics, and plasma glucose-dependent insulinotropic polypeptide and metabolite concentrations in feedlot cattle. *Translational Animal Science*. 4: txaa009. doi: 10.1093/tas/txaa009
30. Pisoni, L., and A. E. Relling. 2020. The effects of supplementing yeast fermentation products on gut permeability, hormone concentration, and growth in newborn dairy calves. *Translational Animal Science*. 4: txaa004. doi: 10.1093/tas/txaa004
31. Jaborek, J. R., H. N. Zerby, S. J. Moeller, F. L. Fluharty, and A. E. Relling. 2019. Evaluation of feedlot performance, carcass characteristics, carcass retail cut distribution, Warner-Bratzler shear force, and fatty acid composition of crossbred Jersey steers and heifers. *Applied Animal Science*. 35:615-627. doi: 10.15232/aas.2019-01895
32. Jaborek, J. R., H. N. Zerby, S. J. Moeller, F. L. Fluharty, and A. E. Relling. 2019. Evaluation of feedlot performance, carcass characteristics, carcass retail cut distribution, Warner-Bratzler shear force, and fatty acid composition of purebred Jersey and crossbred Jersey steers. *Translational Animal Science*. 3:1475-1491. doi: 10.1093/tas/txz110
33. Miqueo, E, A. Chiarle, M. J. Giuliody, and A. E. Relling. 2019. Association between prepartum metabolic status and resumption of postpartum ovulation in dairy cows. *Domestic Animal endocrinology*. 69:62-67. doi: 10.1016/j.domaniend.2019.04.005
34. Nickles, K. R., L. Hamer, D. N. Coleman, and A. E. Relling. 2019. Supplementation with eicosapentaenoic and docosahexaenoic acids in late gestation in ewes changes adipose tissue gene expression in the ewe and growth and plasma concentration of ghrelin in the offspring. *J Anim Sci*. 97:2631-2643. doi: 10.1093/jas/skz141
35. Coleman, D. N., A. C. Carranza-Martin, Y. Jin, K. Lee, and A. E. Relling. 2019. Prepartum fatty acid supplementation in sheep IV. Effect of calcium salts with eicosapentaenoic acid and docosahexaenoic acid in the maternal and finishing diet on lamb liver and adipose tissue during the lamb finishing period. *J Anim Sci*. 97: 3071–3088. doi: 10.1093/jas/skz154
36. Piñeiro, J. M., B. T. Menichetti, A. A. Barragan, A. E. Relling, W. P. Weiss, S. Bas, and G. M. Schuenemann. 2019. Associations of postpartum lying time with culling, milk yield, cyclicity, and reproductive performance of lactating dairy cows. *J Dairy Sci*. 102:3362-3375. doi: 10.3168/jds.2018-15387
36. Piñeiro, J. M., B. T. Menichetti, A. A. Barragan, A. E. Relling, W. P. Weiss, S. Bas, and G. M. Schuenemann. 2019. Associations of pre- and postpartum lying time with metabolic, inflammation, and health status of lactating dairy cows. *J Dairy Sci*. 102:3348-3361. doi: 10.3168/jds.2018-15386

38. Pellegrino, F. J., A. Risso, A. E. Relling, and Y. Corrada. 2019. Physical response of dogs supplemented with fish oil during a treadmill training program. *Journal of Animal Physiology and Animal Nutrition*. 653-660. doi: 10.1111/jpn.13033
39. Russi, J. P., N. DiLorenzo, and A. E. Relling. 2019. Effects of rumen-protected carbohydrate supplementation on performance and blood metabolites in feedlot finishing steers during heat stress. *Translational Animal Science*. 3:523-521. doi: 10.1093/tas/txy122
40. Sirini M., J. P. Anchordoquy, S. Quintana, C. Furnus, A. E. Relling, and J. M. Anchordoquy. 2019. Expression of ghrelin and its receptor mRNA in Bovine Oocyte and Cumulus Cells. *International Journal of Fertility & Sterility*. 12: 335-338. doi: 10.22074/ijfs.2019.5393
41. Carranza Martin A.C, D. N. Coleman, L. Garcia, C. Furnus, and A. E. Relling. 2018. Parturition fatty acid supplementation in sheep III: Effect of eicosapentaenoic acid and docosahexaenoic acid during finishing on performance, hypothalamus gene expression and muscle fatty acids composition in lambs. *J Anim Sci*. 96: 5300–5310. doi: 10.1093/jas/sky360
42. Turiello, P., A. Larriestra, F. Bargo, A. E. Relling, and W. P. Weiss. 2018. Sources of variation in corn silage and total mixed rations of Percent of authorship: commercial dairy farms. *The Professional Animal Scientist*. 34: 148:155. doi:10.15232/pas.2017-01704
43. Coleman, D. N., K. D. Murphy, and A. E. Relling. 2018. Parturition fatty acid supplementation in sheep. II. Supplementation of eicosapentaenoic acid and docosahexaenoic acid during late gestation alters the fatty acid profile of plasma, colostrum, milk and adipose tissue, and increases lipogenic gene expression of adipose tissue. *J Anim Sci*. 96:1181-1204. doi:10.1093/jas/skx013
44. Mattioli, G.A., D. E. Rosa, E. Turic, A. E. Relling, E. Galarza, and L. E. Fazzio. 2018. Effects of Copper and Zinc Supplementation on Weight Gain and Hematological Parameters in Pre-weaning Calves. *Biological Trace Element Research*. 189:456-464. doi:10.1007/s12011-017-1239-0
45. Coleman, D.N., K. C. Rivera-Acevedo, and A.E. Relling, A.E. 2018. Parturition fatty acid supplementation in sheep I. Eicosapentaenoic and docosahexaenoic acid supplementation do not modify ewe and lamb metabolic status and performance through weaning. *J Anim Sci*. 96:364-374. doi:10.1093/jas/skx012
46. Desantadina, R., S. Quintana, M. I. Recavarren, and A. E. Relling, 2018. Effect of time of gestation on fatty acid transporters mRNA expression in bovine placenta. *Bioscience Journal*. 34:180-185. doi:10.14393/BJ-v34n1a2018-36825

**4) Trabajos presentados en Reuniones Científicas: se deberá especificar el número total y detallar últimos cinco años: Autor/es, año de presentación. Título, Nombre de la reunión científica, ciudad y país donde se realizó.**

**Total: 46 (desde el 2015)**

1. Nickles, K. R., A. E. Relling, A. Garcia-Guerra, F. L. Fluharty, and A. J. Parker. 2020. Cows housed in muddy environmental conditions during late gestation have lesser body weight and body condition score compared with cows housed on wood chips. *ASAS-CSAS 2020 Annual Meeting and Trade Show*. Peer Reviewed

2. Rosa Velazquez M., J. M. Pinos Rodriguez, and A. E. Relling. 2020. Maternal dietary supplementation of fatty acids during late gestation on offspring's growth, carcass characteristics and energy metabolism in sheep. ASAS-CSAS 2020 Annual Meeting and Trade Show. Peer Reviewed
3. Pittaluga Russi A. T. L. Felix, and A. E. Relling. 2020. Effect of increasing levels of soy hulls in finishing diets of feedlot cattle offered free-choice hay on performance, roughage intake and carcass characteristics. ASAS-CSAS 2020 Annual Meeting and Trade Show. Peer Reviewed
4. Menichetti, B. T., J. M. Piñeiro, A. Garcia-Guerra, A. E. Relling, W. P. Weiss, and G. M. Schuenemann. 2020. Consistency of lying time is associated with reduced serum non-esterified fatty acids of prepartum dairy heifers and cows. 2020 ADSA virtual annual meeting. Peer Reviewed
5. Rosa-Velazquez, M., J. M. Pinos, and A. E. Relling. 2020. Effect of Polyunsaturated Fatty Acid and Methionine Supplementation During Late Gestation on Offspring Growth, Glucose Tolerance Test, and Carcass Characteristic in Sheep. 2020 Annual Meeting, Midwest section of ASAS. Peer Reviewed
6. Nickles, K. R., A. E. Relling, and A. J. Parker. 2020. Intranasal Oxytocin Improves Plasma Non-Esterified Fatty Acids but Not Distance Walked or Cortisol Concentrations at Weaning. 2020 Annual Meeting, Midwest section of ASAS. Peer Reviewed
7. Relling A. E. 2020. Nutritional Advances in Fetal and Neonatal Development: Effect of Fatty Acid Supplementation. Physiology symposium at the 2020 Annual Meeting, Midwest section of ASAS. Peer Reviewed
8. Jaborek, J. R., F. L. Fluharty, and A. E. Relling. 2020. Young Scholar Presentation: The Use of Diverse Cattle Breeds to Understand Marbling Development and Growth. 2020 Annual Meeting, Midwest section of ASAS. Peer Reviewed
9. Lizarraga, R. M., E. Galarza, G. Mattioli, A. J. Parker, and A. E. Relling. 2020. Effect of preconditioning pre-shipment and injectable antioxidant trace elements and vitamins on growth, antioxidant status, and plasma metabolites and insulin concentration in weaned beef cattle. 2020 Annual Meeting, Midwest section of ASAS. Peer Reviewed
10. Rosa-Velazquez, M; F. Batistel, and A. E. Relling. 2020. Effect of polyunsaturated fatty acid and methionine supplementation during late gestation on offspring duodenal amino acid and peptides transporters in sheep. 2020 Annual Meeting, Midwest section of ASAS. Peer Reviewed
11. Jaborek, J. R., F. L. Fluharty, and A. E. Relling. 2020. Fatty acid composition of the longissimus muscle from Angus and Wagyu sired cattle at the 6th and 12th rib location. 2020 Annual Meeting, Midwest section of ASAS. Peer Reviewed
12. Miquilini, M., N. R. Hardy, K. M. Enger, P. Dieter, A. E. Relling, and B. D. Enger. 2020. Fatty acid profiles in subcutaneous adipose and the mammary fat pad of Holstein calves receiving different estradiol treatments. 2020 Annual Meeting, Midwest section of ASAS. Peer Reviewed
13. Nickles, K; A.E. Relling, and A. J. Parker. 2019. A social facilitator can reduce calf walking

- behavior at weaning. In the American Society of Animal Science annual meeting. doi: 10.1093/jas/skz258.006. Peer Reviewed
- 14 Relling, A. E.; M. Rosa-Velazquez, M, and F. Batistel, and. 2019. Late-Breaking: Maternal supply of polyunsaturated fatty acids and methionine during late- gestation alters amino acid transporters and global DNA methylation in lamb small intestine. In the American Society of Animal Science annual meeting. doi: 10.1093/jas/skz258.649. Peer Reviewed
  15. Rosa-Velazquez, M. F. Batistel, J. M. Pinos-Rodriguez, and A. E. Relling. 2019. Late-Breaking: Polyunsaturated fatty acids and methionine supplementation during late gestation alters fetal liver development in sheep. In the American Society of Animal Science annual meeting. doi: 10.1093/jas/skz258.646. Peer Reviewed
  16. Jaborek, J., A. E. Relling, S. Moeller, S and H. Zerby. 2019. Prediction of retail yield for purebred and crossbred Jersey cattle raised for natural markets. In the American Society of Animal Science annual meeting. doi:10.1093/jas/skz258.670. Peer Reviewed
  17. Jaborek, J., and A. E. Relling. 2019. Feedlot performance and carcass characteristics of Angus and Wagyu sired cattle raised to a similar body weight endpoint. In the American Society of Animal Science annual meeting. doi: 10.1093/jas/skz258.528. Peer Reviewed
  18. Carranza-Martin, A. C., and A. E. Relling. 2019. Polyunsaturated fatty acid and their fetal programming effect on the FFARs from ewe lambs' ovaries. In the American Society of Animal Science annual meeting. doi: 10.1093/jas/skz258.728. Peer Reviewed
  19. Wagner, B, A. E. Relling, J. Kieffer, and A. J. Parker. 2019. Intra-nasal oxytocin treatment does not attenuate the hypothalamo-pituitary-adrenal axis in beef heifers subjected to isolation stress or restraint and isolation stress. Annual Meeting, Midwest section of ASAS. doi: 10.1093/jas/skz122.097. Peer Reviewed
  20. Nickles, K, A. E. Relling, A.E, and A. J. Parker. 2019. Seeing the whole picture: Utilizing GPS technology to determine distance and time calves devote to walking post-weaning. Annual Meeting, Midwest section of ASAS. doi: 10.1093/jas/skz122.078. Peer Reviewed
  21. Jaborek, J., and A. E. Relling. 2019. The use of low antioxidant mineral concentrations in the growing diet as a method to increase marbling deposition in feedlot cattle. Annual Meeting, Midwest section of ASAS. doi: 10.1093/jas/skz122.251. Peer Reviewed
  22. Oviedo, M., J. Roque, H. Lee-Ranguel, and A. E. Relling. 2019. Effect of DHA and EPA supplementation during the first third of gestation on growth, metabolism and gene expression in hypothalamus in finished lambs. Annual Meeting, Midwest section of ASAS. doi: 10.1093/jas/skz122.248. Peer Reviewed
  23. Roque J; M. Oviedo, H. Lee-Ranguel, and A. E. Relling. 2019. Effect of eicosapentaenoic acid and docosahexaenoic acid supplementation on placenta and fetal liver mRNA, and fetal liver and brain fatty acids profile on early gestation in sheep. Annual Meeting, Midwest section of ASAS. doi: 10.1093/jas/skz122.247. Peer Reviewed
  24. Piñeiro, J. M., B. T. Menichetti, A. A. Barragan, A. Relling, W. P. Weiss, S. Bas, and G. M. Schuenemann. 2018. Effect of ketosis on lying time in transition dairy cows. *J. Dairy Sci.* 101, Suppl. 2, Page 38. Peer Reviewed
  25. Pisoni L., K. V. Whinnery, and A. E. Relling. 2018. Effect of *Saccharomyces cerevisiae*

- fermentation products on performance, diarrhea outbreaks, and plasma glucose and NEFA concentration in bottle-fed calves. *J. Dairy Sci.* 101, Suppl. 2, Page 204. Peer Reviewed
26. Menichetti, B. T., J. M. Piñeiro, A. A. Barragan, A. Relling, A. Garcia-Guerra, and G. M. Schuenemann. 2018. Effect of prepartum lying time on stillbirth in transition dairy heifers and cows. *J Dairy Sci.* 101, Suppl. 2, Page 220. Peer Reviewed
  27. Gorocica M. A., G. Velasco, and A. Relling. 2018. Effect of virginiamycin on milk yield and composition under commercial conditions in Mexico. *J Dairy Sci.* 101, Suppl. 2, Pages 227-228. Peer Reviewed
  28. Nickles, K., D. N. Coleman, and A. E. Relling. 2018. Increasing doses of DHA and EPA on fetal programming, effect on performance and plasma metabolites of finishing lambs. Annual Meeting, Midwest section of ASAS. doi: 10.1093/jas/sky073.132. Peer Reviewed
  29. Carranza Martin A. C., D. N. Coleman, C. C. Furnus, and A. E. Relling. 2018. Effect of fetal programming and finishing FA supplementation on hypothalamus mRNA concentration. Annual Meeting, Midwest section of ASAS. doi: 10.1093/jas/sky073.439. Peer Reviewed
  30. Pisoni L., K. V. Whinnery, and A. E. Relling. 2018. Effect of *Saccharomyces cerevisiae* fermentation products on performance and plasma glucose and NEFA concentration in bottle fed calves. Annual Meeting, Midwest section of ASAS. doi: 10.1093/jas/sky073.432. Peer Reviewed
  31. Hamer, L., D. N. Coleman, and A. E. Relling. 2018. The Effects of Supplementing Increasing Doses of EPA and DHA Fatty Acids to Ewes in Late Gestation on Ewe Performance and Milk Production and Offspring Performance and Plasma Metabolites. Annual Meeting, Midwest section of ASAS. doi: 10.1093/jas/sky073.478. Peer Reviewed
  32. Carranza Martin A. C., D. N. Coleman, L. Garcia, C. C. Furnus, and A. E. Relling. 2018. Effect of different fatty acid profile on the maternal and finishing diet on performance and carcass characteristics in lambs. Annual Meeting, Midwest section of ASAS. doi: 10.1093/jas/sky073.458. Peer Reviewed
  33. Coleman, D. N., A. C. Carranza Martin, and A. E. Relling. 2018. Effect of different fatty acid profiles in the maternal and finishing diet on subcutaneous adipose tissue fatty acid profile and gene expression. Annual Meeting, Midwest section of ASAS. doi: 10.1093/jas/sky073.457. Peer Reviewed
  34. Coleman, D. N., A. C. Carranza Martin, and A. E. Relling. 2018. Effect of different fatty acid profiles in the maternal and finishing diet on liver fatty acid profile and gene expression. Annual Meeting, Midwest section of ASAS. doi: 10.1093/jas/sky073.456. Peer Reviewed



**cinco años: Autor/es, año de publicación. Título, páginas, editorial, país, ISBN y doi si lo tuviera.**

**Total: 4**

**6) Proyectos en los que participa: número de proyectos en los que ha participado. Se deberá detallar en los que se encuentran en vigencia: título, código y organismo que otorgó el financiamiento, indicando su rol y la programación del mismo.**

1. An innovative approach to improve nitrogen utilization in ruminants (USDA/NIFA AFRI \$468,923) 2020-2023.
2. Effect of native rumen microbes supplementation on growth, feed efficiency, and methane emission in feedlot cattle (Ascus Bioscience AWD-109727 \$98,271) 2020-2021.
3. Understanding the biology of fetal programming and subsequent offspring growth (OARDC Seeds program \$37,551). 2020- 2021.
4. Effect of lipid supplementation during gestation to improve offspring growth on pasture systems (Ohio sheep and wool Program. \$5,642.72). 2019- 2020.
5. Effect of supplementation with a mineral vitamin mixed on growth and metabolic profile of weaned calves” (Biogenesis Bago. \$22,391.2). 2019- 2020.
6. Effect of Tracesure sheep and lamb and Copasure 4g on plasma concentration of Co, I, Se and Cu in sheep (Animax Ltd. \$10,733.75). 2018.
7. Effect DHA and EPA on early gestation and its impact in performance and metabolic profile on the offspring lambs (Virtus Nutrition, LLC. \$25,133). 2018
8. Effect of mineral and vitamin with antioxidant capacity in breeding cows (Biogenesis Bago. \$7,851). 2017-2019.
9. Effect of Prebiotics on Health Performance of Newborn Calves (Ohio Dairy Research Found. \$ 4,000). 2017
10. Association between metabolic parameter and reproduction in lactating dairy cows. (Ohio Dairy Research Found. \$3,550). 2016
11. The effect of Virginiamycin in combination with Monensin upon the productive response of Holstein cows (Phybro Animal Health, Arg. \$67,404). 2013
12. Improvement on animal performance thru nutrition and health management on Argentinean Feed lots (IPCVA, Arg. \$68,701). 2012.
13. Endocrine regulation of lipids mobilization in sheep (PIP CONICET Amount: Arg. \$36,000). 2011-2013
14. Metabolism of fatty acids on beef cattle, and its effect of fetal development (PICT. CONICET Amount: Arg. \$200,000). 2011-2013.

**7) Servicios Tecnológicos de Alto Nivel (STAN)**

**8) Otros Datos de Interés (dos renglones)**