

Charles Gregory (Greg) Aldrich, Ph.D.

Grain Science and Industry, Kansas State University
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Manhattan, KS 66506
785-532-6199

Areas of Expertise: The effect of pet food processing on nutrition, safety, and shelf-life.

Education

Ph.D. Ruminant Nutrition (1995) University of Illinois: Effects of heat and chemical treatment of whole oilseeds on site of digestion of protein and lipid by cattle

M.S. Animal Sciences (1991) University of Missouri: Feed intake, diet utilization, and thermal balance of ruminants as affected by endophyte-infected tall fescue

B.S. Agriculture (1984) Kansas State University: Animal Sciences and Industry

Experience

Kansas State University, Manhattan, KS

Research Professor & Pet Food Program Coordinator, 2012-Present

Faculty member in the Department of Grain Science and Industry with two key responsibilities: 1) assisting a cross-campus team in the development of a pet food program, and 2) building a research program pertaining to the effects of food processing on nutrient retention, shelf-life, and safety of pet foods.

Pet Food & Ingredient Technology, Inc., Manhattan, KS

President, 2003-Present

Nutrition and technical support to pet food manufacturers and ingredient suppliers.

Menu Foods, Ltd., Toronto, ON (acquired by Simmons Pet Food, Inc. in 2010)

Vice President, Product Development, 2002-2003

Kemin Industries, Inc., Des Moines, IA

Director, Research & Development, 2000-2002

The Iams Company, Dayton, OH

(Acquired by Procter & Gamble [1999] then Mars Pet Care [2014])

Manager, New Technology Development, 1998-2000

Research Nutritionist, Nutritional Development Research, 1995-1998

University of Illinois at Urbana-Champaign, Urbana, IL

Graduate Research Assistant and Ph.D. Candidate, 1990-1995

University of Missouri-Columbia, Columbia, MO
Graduate Research Assistant and M.S. Candidate, 1988-1990

Garden City Co-op, Inc., Garden City, KS
Sales and Nutrition Manager, 1987-1988
Feed Fieldman, 1985-1987

Farmer & Rancher, Garfield, KS 1983-1985

Organizations

American Society of Animal Science: Professional Member since 1988
Companion Animal Program Committee: Standing Member 2011-present
Session Moderator: Fermented Ingredients in Pet Foods, Louisville, KY 2021
Chairman 2006-2007, Vice-Chairman 2005-2006, Member 2004-2005
American Academy of Veterinary Nutrition, Member 2015-present
Governance Committee: 2021
Fats and Proteins Research Foundation: Research Committee Member 2006-present
Institute of Food Technologists – Professional Member
International Association for Food Protection – member 2018-present
AACCI/Cereals & Grains Association – member 2018-present
Pet and Animal Food Planning Committee Co-Chair (2018-2020)

Graduate Faculty Memberships

Member of Grain Science Graduate Program Committee, 2016-present
Certified Member of Grain Science Graduate Faculty, Kansas State University, 2015-present
Member of Grain Science Graduate Faculty, Kansas State University, 2012-present

Research Supervision

Chen, Youhan; PhD student, Start Fall 2021 -
Toth, Mollie; MS student (Co-Advisor), Start Fall 2021 -
Johnson, Paris; MS student, Summer 2021 - Present
Claxton, Carter; MS student, Spring 2021 - Present
Lickeig, Kyle; MS student, Spring 2021 - Present
Wallace, Jasmine; MS student (FSI), Spring 2021 - Present
Baughman, Neal; PhD student (FSI), Fall 2020 - Present
Kim, Hee Seong, PhD student, Fall 2020 - Present
Kilburn, Logan: PhD student, Spring 2020 - Present
Mooney, Alaina: PhD student, Fall 2019 – Present
M.S., Spring 2016; Employed by Rayne Clinical Nutrition, Inc.
Kiprotich, Samuel; PhD student, Fall 2019 - Present
Lierz, Ryan; M.S. student, Spring 2019 - Present
Holt, Dalton; M.S. student, Spring 2019 - Present
Deliephan, Aiswariya; Ph.D. (Co-Advisor) Candidate, Spring 2018 - Present
Lema, Krystina; M.S. student, Spring 2019 – May 2021. Employed Tuffy's
Dainton, Amanda; Ph.D. Candidate, Fall 2018 – May 2021. Employed Freshpet
Acuff, Heather; Ph.D. Candidate, Summer 2018 – May 2021. Employed Nulo

Dhakal, Janak; Ph.D., Post-Doctoral Fellow, Food Microbiology, Oct 2017 – Feb 2021
 Haverkamp (nee: Morts), Megan: Ph.D. 2020
 Alvarenga, Isabella: M.S., 2016; Ph.D. Fall 2016-May 2021. Post-Doc CSU
 Donadelli, Renan: Ph.D. 2019; Employed Freshpet
 Guazzelli Pezzali, Julia; M.S. 2019; PhD student Guelph University, CA
 Smith, Spencer: M.S., 2018; Employed Hill's Pet Nutrition, Inc.
 Molnar, Lydia: M.S. 2017; Employed BSM Partners
 Jeffrey, Andrea: M.S., 2016 (Co-Adv); Employed Smuckers.
 DeNoya, Shelby: M.S., 2015; Employed Purina-LOL, Inc.
 Gray, Morgan Nicole: M.S., 2015; Employed Cargill, Inc.
 Simmons, Analena: M.S., 2015; Employed Hill's Pet Nutrition, Inc.

Graduate Thesis Committee Member

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|---|---------------------------------------|
| Shields, Chelsie (MS, FSI, pending) | Tsai, Weilun (M.S., 2019) |
| Hobbs, Lonnie (M.S., 2019, PhD., pending) | Gomez Baquero, David (MS, 2018) |
| Maichel, Eric (MS, 2021) | Li, ShiWei (MS., 2018) |
| Butterfield, Tyler (MS, 2021) | Li, Han (MS., 2017) |
| Rivera, Jared (MS, 2021) | Di Donfrancesco, Brizio (Ph.D., 2016) |
| Ochonski, Patricia (PhD, 2021) | Morts, Megan (M.S., 2015) |
| Hempanpairoh, Porranee (MS, 2020) | Gibson, Michael (M.S., 2015) |
| Seitz, Dan (M.S., 2019) | Graham, Nichole (M.S., 2015) |

Undergraduate Research Advisor/Mentor

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|---------------------------------------|--------------------------|---------------------|
| Howard, Karrington Su21† | Luis Lopez S18*, F19** | Dainton, Amanda S14 |
| Hall, Rajion, Su21† | Erryn Goods S18 | Rokey, Jordan F13 |
| Perry, Alyssa, Su20† | Natalie Booth F17 | Doyle, Molly S13 |
| Gaona, Melissa, F19*, S20* | Dayanna Valerio Su17 | Mathe, Sarah S14 |
| Pedro Ferzola, (UFRGS, Brazil) S19 | Silva, Ingrid S17*, S18* | |
| | Stone, Debra S16 | |
| | Smith, Spencer S16 | |

 *Developing Scholars Program
 **McNair Fellow
 † KSRE REU Diversity Fellows Program

Teaching

Lead/Co-Instructor

GRSC 100 Foundations in Grain Science (F2021)
 GENAG 200 CAT Community: Kibble Tech: The science of pet food (F2019-2021)
 GRSC 750 Pet Food Formulation for Commercial Production (Jan 2018 – 2021)
 GRSC 900 Graduate Seminar in Grain Science (2017, 2018)
 GRSC 645 Pet Food Processing (Fall odd yrs; 2011-2021)
 GRSC 645z Distance: Pet Food Processing (Fall even yrs)
 ASI 677 Companion Animal Nutrition (F2017-2021)

Guest Lecturer

FDSCI 302 Food Science: Introduction to the Pet Food Industry
GRSC 100/101 General Agriculture: Introduction to the Pet Food Industry
GRSC 530 Grain Science Management: Principals of Project Management
ASI 318 Fundamentals of Nutrition: Companion Animal Nutrition
GRSC 510 Feed Technology I: Overview of the Pet Food Industry and Pet Food Processing

Short Course Instruction

Pet Food Formulation for Commercial Production (IGP – 1st offering; Jan 2018 -2021, Jun 2021): Lead Instructor
Introduction to the Commercial Pet Food Industry and Practices: American College of Veterinary Nutritionists (IGP, Sep 2016, 2018, Mar 2021): Lead Instructor
Pet Food Workshop: a) Pet Food Industry Trends, b) Micro-ingredients in Pet Food, c) Pet Food Formulation (IGP): Guest Lecturer (2015-2019, 2021)
Alltech-Brazil: Exploring Pet Food Ingredients and Extrusion: Lead Instructor and Program Organizer. May22-24, 2019 (IGP)
Cochrane Fellowship Program on Introduction to U.S. Pet Food – Serbia (USDA: Foreign Agricultural Service): Mar 2018: Lead Instructor.

Service:

Recruiting Committee Chair; Department Grain Science & Industry, 2017-present
Graduate Program Committee: Member 2017 – present
Grain Science Graduate Student Organization, Adviser, 2017 - present

Outreach

Petfood 101: Introduction to the pet food industry: On demand (Fall 2020)
Kansas Department of Agriculture Ag-Summit, Pet Food Industry ideation leader in partnership with KDA Economic Development staff (2017 – 2021).
Petfood Forum: Master of Ceremonies (Kansas City Convention Center) 2012-2021
Petfood Forum: Moderator and Panelist: Town Hall Discussions – 2016 - 2021
Petfood Essentials: Master of Ceremonies (Kansas City Convention Center) 2020-2021
K-State Pet Food R&D Showcase: Lead organizer and content manager (KSU-Manhattan) 2015-2021
Petfood Innovation Workshop: Lead organizer and content manager (KSU-Olathe) 2015-2019
KBED: Knowledge Based Economic Development
2018 Apr 11 – Co-host Industry-Academic-Government event at IGP
2014 Sep 29 - Co-host Industry-Academic-Government event at IGP
Kibble Technology: Lead organizer and content manager (University Autonoma de Baja California; 2016, 2017) and Measuring Mixer Efficiency Demonstration with Isabella Alvarenga (2016).

Journal Manuscript Reviewer

Animal Feed Science & Technology;
Editorial Board
Frontiers in Veterinary Science
PLOS One

Italian Journal of Animal Science
Journal of Animal Science
Translational Animal Science

Journal of Animal Physiology and Animal
Nutrition
Journal of American Veterinary Medical
Association
Journal of Sensory Studies

Journal of Applied Poultry Nutrition
Animals (MDPI)
Foods (MDPI)
Laboratory Animals

Patents Pending

Proteinaceous gummy treats for pets. Ref. No. K 14-11. Inventors: Greg Aldrich, Sarah Mathe

Grant Support for the period: Jan 2015-Aug 2021: 57 grants \$4,573,810

Training and Certification:

HACCP

PCQI

CITI: Responsible conduct of research (RCR)

CITI: Working with IACUC

CITI: Working with Dogs in Research Settings

CITI: Working with Cats in Research Settings

CITI: Human Subjects Research (HSR) – IRB Researchers and personnel on IRB protocols

CITI: Initial Biosafety Training, Animal Biosafety, Dual Use Research of Concern (DURC)

CITI: Export Compliance

CITI: Undue Foreign Influence

AAFCO: Pet Food and Specialty Pet Food Labeling Workshop - 2019

Awards:

Corbin Companion Animal Biology Award, American Society of Animal Science 2019

Excellence in Innovation & Economic Engagement Award, Kansas State University: 2018
Runner-up

List of Publications

Book Chapters

1. Donadelli, R.A., **C.G. Aldrich**. 2021. Miscanthus grass as a nutritional fiber source for monogastric animals. In Grasses and Grassland – New Perspectives. Ed. Muhammad Aamir Iqbal. Publisher IntechOpen. Pending Publication.
2. **Aldrich, C.G.**, and R.A. Donadelli. 2021. Feeds and Feed Additives, Pet Foods. In Kirk and Othmer Encyclopedia of Chemical Technology. Publisher John Wiley & Sons. DOI: 10.1002/0471238961.16052003151802.a01.pub3
3. Acuff, H.L., A.N. Dainton, J. Dhakal, S. Kiprotich, **G. Aldrich**. 2020. Sustainability and Pet Food: Is there a role for veterinarians? Vet Clin Small Anim. 51(2021):563-581. <https://doi.org/10.1016/j.cvsm.2021.01.010>

4. Molnar, L., **G. Aldrich**. Pet Food Product Development. pp 85-103. In Methods for Developing New Food Products: An Instructional Guide. Edd. F.M. Aramouni & K. Duschenes. 2017.
5. **Aldrich, G.** 2007. Raw material for feeds (aqua, pet, swine and poultry): Focus on nutrition. Pages 29-53 in Extruders and Expanders in Pet Food, Aquatic and Livestock Feeds. M. Riaz, ed. Agrimedia GmbH, Germany.
6. **Aldrich, G.** 2006. Rendered products in pet food. Pages 159-177 in Essential Rendering: All About the Animal By-Products Industry. D. L. Meeker, ed. Kirby Lithographic Company, Inc., Arlington, VA.
7. Hill, D. A., with contribution from **G. Aldrich**. 2003. Essentials of mineral nutrition. Pages 121-128 in Petfood Technology. J. L. Kvamme and T. D. Phillips, ed. Watt Publishing Co., Mt. Morris, IL.
8. Plant, T. A., and **G. Aldrich**. 2003. Wet petfood formulation. Pages 144-147 in Petfood Technology. J. L. Kvamme and T. D. Phillips, ed. Watt Publishing Co., Mt. Morris, IL.
9. **Aldrich, G.** 2003. Ingredients with regulatory issues. Pages 157-162 in Petfood Technology. J. L. Kvamme and T. D. Phillips, ed. Watt Publishing Co., Mt. Morris, IL.

Refereed Journal Articles

1. Corsato Alvarenga, I., C. Waldy, L.C. Keller, and **C.G. Aldrich**. 2021. A Model that Predicts Resistant Starch in a Dog Kibble Using a Small-Scale Twin-Screw Extruder. *J. Cereal Science*. (Submitted: Pending Review).
2. Corsato Alvarenga, I., **C.G. Aldrich** and Y.C. Shi. 2021. Factors affecting digestibility of starches and their implications on adult dog health. *Animal Feed Science & Technology*. (Accepted with minor revisions).
3. Dainton, A.N., H. Dogan, and **C.G. Aldrich**. 2021. The effects of carbohydrate hydrocolloids on heat penetration, color, and texture of pate'-style canned pet foods. In special edition "Physicochemical, Sensory, and Nutritional Properties of Foods Affected by Processing and Storage" in the MDPI Journal *Foods* (pending review).
4. Acuff, H.L., and **C.G. Aldrich**. 2021. Optimization of extrusion processing and drying conditions for the survival of *Bacillus coagulans* GBI, 6086 in commercial pet food applications. *Anim Feed Sci & Technol* (Accepted pending revisions).

5. Dainton, A.N., J.G. Pezzali, D.J. Tomlinson, and **C.G. Aldrich**. 2021. Effects of copper source and supplementation level on degradation products, color, and fatty acid profile in canned pet food. *Anim Feed Sci & Technol.* (Accepted pending revisions)
6. Rivera, J., A. Deliephan, J. Dhakal, **C.G. Aldrich**, and K. Siliveru. 2021. Significance of Sodium bisulfate (SBS) tempering in reducing *Escherichia coli* O121 and O26 load of wheat and its effects on wheat flour quality. *Foods*. 10:1479.
<https://doi.org/10.3390/foods10071479> .
7. Pezzali, J.G., W. Tsai, K. Koppel, and **C.G. Aldrich**. 2021. The use of protein binders and sorghum crisps as potential ingredients in a cereal bar for dogs. *J. Sens Stud.* e12689.
<https://doi.org/10.1111/joss.12689>
8. Corsato Alvarenga, I., A.N. Dainton, and **C.G. Aldrich**. 2021. A Review: Nutrition and process attributes of corn in pet foods. *Critical Rev Food Sci and Nutr.* DOI: 10.1080/10408398.2021.1931020.
9. Acuff, H.L., **C.G. Aldrich**. 2021. Evaluation of graded levels of **Bacillus coagulans** GBI-30, 6086 on apparent nutrient digestibility, stool quality, and intestinal health indicators in healthy adult dogs. *J. Anim. Sci.* 99(5):1-11 doi :10.1093/jas/skab137.
10. Truelock, C. N., H. K. Wecker, C. J. Delfelder, C.E. Evans, R. A. Donadelli, **C. G. Aldrich**, M. A. Barrios, C. R. Stark, R. S. Beyer, J. M. Gonzalez, and C. B. Paulk. 2021. Effects of dietary amino acid density and exogenous protease inclusion on growth performance and apparent ileal amino acid digestibility in poultry. *J. of Appl. Poul. Res.* 30:100148.
<https://doi.org/10.1016/j.japr.2021.100148>
11. Donadelli, R.A., H. Dogan, **G. Aldrich**. 2021. The effects of fiber source on extrusion parameters and kibble structure of dry dog foods. *Anim. Feed Sci. Technol.* 274:114884.
<https://doi.org/10.1016/j.anifeedsci.2021.114884>.
12. Dhakal, J., **C.G. Aldrich**. 2020. A comparison of *Salmonella* survival and their detection using an enrichment technique in dry and wet inoculated rendered chicken fat treated with sodium bisulfate. *J Food Prot.* 84:249-254. <https://doi.org/10.4315/JPF-20-183>.
13. Donadelli, R.A., H. Dogan, and **C.G. Aldrich**. 2020. The effects of fiber source on extrusion processing parameters and kibble characteristics of dry cat foods. *Transl Anim Sci.* 4:1-8 doi: 10.1093/tas/txaa185.
14. Haverkamp, M., **G. Aldrich**. 2020. Evaluation of protein quality of chicken proteins intended for pet food. *J. Am Holis Vet Med Assoc.* 60:37-45.
15. Dhakal, J., and **C.G. Aldrich**. 2020. Use of medium chain fatty acids to mitigate *Salmonella typhimurium* (ATCC 14028) on dry pet food kibbles. *J. Food Protect.* 83:1505-1511.

16. Hu, R., K.M. Dunmire, C.N. Truelock, C.B. Paulk, **G. Aldrich**, and Y. Li. 2020. Antioxidant performance of corn gluten meal and DDGS protein hydrolysates in food, pet food, and feed systems. *J. Ag Food Research* 2:100030 (<https://doi.org/10.1016/j.jafr.2020.100030>).
17. Pezzali, J.G., A. Suprabha-Raj, K. Siliveru, and **C.G. Aldrich**. 2020. Characterization of white and red sorghum flour and their potential use for production of extrudate crisps. *Plos ONE*. 15(6):30234940. <https://doi.org/10.1371/journal.PONE.0234940> .
18. Corsato Alvarenga, I., D. Holt, and **C.G. Aldrich**. 2020. Evaluation of faba beans as an ingredient in dog diets: Apparent total tract digestibility of extruded diets with graded levels of dehulled faba beans (*Vicia faba* L.) by dogs. *J. Anim. Sci.* 98: (<https://doi.org/10.1093/jas/skaa085>)
19. Corsato Alvarenga, I., **C.G. Aldrich**. 2020. Starch characterization of commercial extruded dry pet foods. *Transl. Anim. Sci.* (doi.org/10.1093/tas/txaa018)
20. Pezzali, J.G., H.L. Acuff, W. Henry, C. Alexander, K.S. Swanson, and **C.G. Aldrich**. 2020. Effects of different carbohydrate sources on taurine status in healthy Beagle dogs. *J. Anim. Sci.* vol:page ([doi:10.1093/jas/skaa010](https://doi.org/10.1093/jas/skaa010)).
21. Li, H., R. Wyant, **G. Aldrich**, K. Koppel. 2020. Preference ranking procedure: Method validation with dogs. *Animals* 10:710; <https://doi.org/10.3390/ani10040710> .
22. Donadelli, R.A., **C.G. Aldrich**. 2019. The effects of diets varying in fiber sources on nutrient utilization, stool quality, and hairball management in cats. *J. Anim. Physiol. Anim. Nutr.* (DOI: 10.1111/jpn.13289).
23. Donadelli, R.A., E.C. Titgemeyer, **C.G. Aldrich**. 2019. In vitro fermentation of selected fiber sources used in pet foods by a canine fecal inoculum. *J. Anim. Sci.* 97:4532-4539 ([doi:10.1093/jas/skz302](https://doi.org/10.1093/jas/skz302))
24. Donadelli, R., **C.G. Aldrich**. 2019. The effects on nutrient utilization and stool quality of Beagle dogs fed diets with beet pulp, cellulose, and *Miscanthus* grass. *J. Anim. Sci.* 97:4134-4139 ([doi:10.1093/jas/skz265](https://doi.org/10.1093/jas/skz265))
25. Dhakal, J., **C.G. Aldrich**, C. Knueven. 2019. Assessing the efficacy of sodium bisulfate and organic acid treatments to control *Salmonella typhimurium* in rendered chicken fat applied to pet foods. *J. Food Protection.* 82:1864-1869 ([doi:10.4315/0362-028X.JFP-18-560](https://doi.org/10.4315/0362-028X.JFP-18-560)).
26. Guazzelli Pezzali, J., **C.G. Aldrich**. 2019. Effect of ancient grains and grain-free carbohydrate sources on extrusion parameters and nutrient utilization by dogs. *J. Anim. Sci.* 97:3758-3767. ([doi:10.1093/jas/skz237](https://doi.org/10.1093/jas/skz237))
27. Donadelli, R., D. Stone, **C.G. Aldrich**, R. Beyer. 2019. Effect of fiber source and particle size on chick performance and nutrient utilization. *J. Poultry Sci.* 0:1-11 ([doi:10.3382/ps/pez382](https://doi.org/10.3382/ps/pez382))

28. Corsato-Alvarenga, I., **C.G. Aldrich**, 2019. The effect of increasing levels of dehulled faba beans (*Vicia faba* L.) on extrusion and product parameters for dry expanded dog food. *Foods* 8:26-35 (doi:20.3390/foods8010026)
29. Corsato-Alvarenga, I., **C.G. Aldrich**, Z. Ou. 2019. Comparison of four digestibility markers to estimate fecal output of dogs. *J. Anim. Sci* (97:1036-1041)
30. Mansilla, W.D., A.K. Shoveller, C.P.F Marinangeli, K.J. Ekenstedt, **G. Aldrich**, J.A. Larsen, D.A. Columbus, L. Weber, and S.K. Abood. 2018. The association between pulse ingredients and canine dilated cardiomyopathy: addressing the knowledge gaps before establishing causation. *J. Anim. Sci.* (97:983-997 doi:10.1093/jas/sky488)
31. Corsato-Alvarenga, I., **C.G. Aldrich**, D.E. Jewell. 2018. Influence of liver condition and copper on selective parameters of post-mortem dog tissue samples. *Animals* 8(12), 237; <https://doi.org/10.3390/ani8120237>.
32. Koppel, K., B. Di Donfrancesco, **C. Aldrich**. 2018. Pet and owner acceptance of dry dog foods manufactured with sorghum and sorghum fractions. *J. Cereal Sci.* 83:42-48.
33. Donadelli, R.A., **Aldrich, C.G.**, C.K. Jones, and S.R. Beyer. 2018. The amino acid composition and protein quality of various popular poultry and vegetable proteins commonly used in the production of dog and cat diets. *J Poultry Sci.* pey462, <https://doi.org/10.3382/ps/pey462>
34. Corsato-Alvarenga, I., **C.G. Aldrich**. 2018. The effect of sorghum fractions on apparent total track digestibility and antioxidant capacity by dogs. *PLOS ONE* 13(10):e0206090.
35. Alvarenga, I.C., Z. Ou, S. Thiele, S. Alavi, **C.G. Aldrich**. 2018. Effects of milling sorghum into fractions on yield, nutrient composition, and their performance in extrusion of dog food. *J. Cereal Sci.* 82:121-128.
36. Cochrane, R.A., A.R. Huss, **G.C. Aldrich**, C.R. Stark, and C.K. Jones. 2018. Use of sodium bisulfate and pelleting for reduction of *Enterococcus faecium* counts in broiler feed. *J. Appl. Poult. Res.* Submitted.
37. Pezzali, J.G., S.C. Smith, and **C.G. Aldrich**. 2018. An overview of the effect of diet on the allergenicity of cats to susceptible humans. *SOJ Vet Sci.* 4:1-9.
38. Li, H., S. Smith., **G. Aldrich**, and K. Koppel. 2017. Preference Ranking Procedure Proposal for Dogs: A Preliminary Study. *J. Sensory Studies.* 33:e12307
39. Alvarenga, I.C. M. Kohles, and **G. Aldrich**. 2017. The effect of feed form on diet digestibility in rabbits. *Animals.* 7:95.
40. Manbeck, A.E., **C.G. Aldrich**, S. Alavi, T. Zhou, R.A. Donadelli. 2017. The effect of gelatin inclusion in high protein extruded pet food on kibble physical properties. *Anim Feed Sci Technol.* 232:91-101.

41. Molnar, L., **C.G. Aldrich**, and S.D. Tribble. 2017. The effect of processing and ingredient interactions on thiamine degradation in canned cat food: A modern nutrition-health dilemma. *Open Access J. Vet Sci & Res.* Vol 2 (Iss 2).
42. Chanadang, S., K. Koppel, and **G. Aldrich**. 2016. The impact of rendered protein meal oxidation level on shelf-life, sensory characteristics, and acceptability in extruded pet food. *Animals*, 6 (8) 44.
43. Cochrane, R.A., A.R. Huss, **G.C. Aldrich**, C.R. Stark, and C.K. Jones. 2016 Evaluating chemical mitigation of *Salmonella typhimurium* ATCC 14028 in animal feed ingredients. *J. Food Protect.* 79 (4), pp. 672-676.
44. **Aldrich, C.G.**, and K. Koppel. 2015. Pet Food Palatability Evaluation: A review of standard assay techniques and interpretation of results with a primary focus on limitations. *Animals* 5(1):43-55.
45. Koppel, K., M. Gibson, S. Alavi, and **G. Aldrich**. 2014. The effects of cooking process and meat inclusion on pet food flavor and texture characteristics. *Animals*. 4:254-271.
46. Turek, J. J., B. A. Watkins, I. A. Schoenlein, K. G. D. Allen, M. G. Hayek, and **C. G. Aldrich**. 2003. Oxidized lipid depresses canine growth, immune function, and bone formation. *J. Nutr. Biochem.* 14:24-31.
47. Orias, F., **C. G. Aldrich**, J. C. Elizalde, L. L. Bauer, and N. R. Merchen. 2002. The effects of dry extrusion temperature of whole soybeans on digestion of protein and amino acids by steers. *J. Anim. Sci.* 80:2493-2501.
48. Elliot, J. P., J. K. Drackley, A. D. Beaulieu, **C. G. Aldrich**, and N. R. Merchen. 1999. Effects of saturation and esterification of fat sources on site and extent of digestion in steers: Digestion of fatty acids, triglycerides, and energy. *J. Anim. Sci.* 77:1919-1929.
49. Elizalde, J. C., **C. G. Aldrich**, D. W. LaCount, J. K. Drackley, and N. R. Merchen. 1999. Ruminal and total tract digestibilities in steers fed diets containing liquefied or prilled saturated fatty acids. *J. Anim. Sci.* 77:1930-1939.
50. Johnson, M. L., C. M. Parsons, G. C. Fahey, Jr., N. R. Merchen, and **C. G. Aldrich**. 1998. Effects of species raw material source, ash content, and processing temperature on amino acid digestibility of animal by-product meals by cecectomized roosters and ileally cannulated dogs. *J. Anim. Sci.* 76:1112-1122.
51. **Aldrich, C. G.**, N. R. Merchen, C. M. Parsons, H. S. Hussein, S. Ingram, and J. R. Clodfelter. 1997. Assessment of postruminal amino acid digestibility of roasted and extruded whole soybeans with the precision-fed rooster assay. *J. Anim. Sci.* 75:3046-3051.

52. Elliot, J. P., J. K. Drackley, **C. G. Aldrich**, and N. R. Merchen. 1997. Effects of saturation and esterification of fat sources on site and extent of digestion in steers: Ruminant fermentation and digestion of organic matter, fiber and nitrogen. *J. Anim. Sci.* 75:2803-2812.
53. **Aldrich, C. G.**, N. R. Merchen, J. K. Drackley, G. C. Fahey, Jr., and L. L. Berger. 1997. The effects of chemical treatment of whole canola seed on intake, nutrient digestibilities, milk production and milk fatty acids of Holstein cows. *J. Anim. Sci.* 75:512-521.
54. **Aldrich, C. G.**, N. R. Merchen, J. K. Drackley, S. S. Gonzalez, G. C. Fahey, Jr., and L. L. Berger. 1997. The effects of chemical treatment of whole canola seed on lipid and protein digestion by steers. *J. Anim. Sci.* 75:502-511.
55. **Aldrich, C. G.**, N. R. Merchen, and J. K. Drackley. 1995. The effect of roasting temperature applied to whole soybeans on site of digestion by steers. I. Organic matter, energy, fiber, and fatty acid digestion. *J. Anim. Sci.* 73:2120-2130.
56. **Aldrich, C. G.**, N. R. Merchen, D. R. Nelson, and J. A. Barmore. 1995. The effects of roasting temperature applied to whole soybeans on site of digestion by steers. II. Protein and amino acid digestion. *J. Anim. Sci.* 73:2131-2140.
57. Demjanec, B., N. R. Merchen, J. D. Cremin, Jr., **C. G. Aldrich**, and L. L. Berger. 1995. Effect of roasting on site and extent of digestion of soybean meal by sheep. 1. Digestion of nitrogen and amino acids. *J. Anim. Sci.* 73:824-834.
58. Hussein, H. S., B. Demjanec, N. R. Merchen, and **C. G. Aldrich**. 1995. Effect of roasting on site and extent of digestion of soybean meal by sheep. 2. Digestion of artifacts of heating. *J. Anim. Sci.* 73:835-842.
59. **Aldrich, C. G.**, M. T. Rhodes, J. L. Miner, M. S. Kerley, and J. A. Paterson. 1992. The effects of endophyte-infected tall fescue consumption and use of a dopamine antagonist on intake, digestibility, body temperature, and blood constituents in sheep. *J. Anim. Sci.* 71:158-163.
60. **Aldrich, C. G.**, J. A. Paterson, J. L. Tate, and M. S. Kerley. 1992. The effects of endophyte-infected tall fescue consumption on diet utilization and thermal regulation in cattle. *J. Anim. Sci.* 71:164-170.
61. Peters, C. W., K. N. Grigsby, **C. G. Aldrich**, J. A. Paterson, R. J. Lipsey, M. S. Kerley, and G. B. Garner. 1992. Performance, forage utilization, and ergovaline consumption by beef cows grazing endophyte fungus-infected tall fescue, endophyte fungus-free tall fescue, or orchardgrass pastures. *J. Anim. Sci.* 70:1550-1561.

Presentations with Proceedings

1. Acuff, H.L., TN. Gaire, Doerksen, T., Lu, A., Hays, M.P., Palinski, R.M., P.R. Hardwidge, **C.G. Aldrich**. 2021. PSV-B-18 - Characterization of the fecal microbiome of healthy adult Beagle dogs supplemented with graded levels of Bacillus coagulans GBI-30, 6086. J. Anim. Sci (suppl)
2. Kim, H.S., **C.G. Aldrich**. 2021. PSV-B-21 - Evaluation of whole soybeans as an ingredient in dog diets: apparent total tract digestibility and stool quality of extruded diets with graded levels of dehulled whole soybeans by dogs. J. Anim. Sci. (suppl)
3. Kim, H.S., **C.G. Aldrich**. 2021. PSV-B-22 - Evaluation of whole soybeans as an ingredient in dog diets: canine palatability of extruded diets with graded levels of dehulled whole soybeans. J. Anim. Sci (suppl)
4. Kilburn, L., M.L. Jolly-Breithaupt, D. Balk, **C.G. Aldrich**. 2021. PSV-B-24 - Palatability assessment of graded levels of grain distillers dried yeast (GDDY) fed to healthy adult cats. J. Anim. Sci (suppl)
5. Dainton, A.N., H. Dogan, **C.G. Aldrich**. 2021. PSV-B-27 - The effects of carbohydrate hydrocolloids on firmness, toughness, and expressible moisture of wet pet food. J. Anim. Sci (suppl). 2nd Place Companion Animal Oral Presentation Competition.
6. Holt, D.A., **C.G. Aldrich**. 2021. PSIII-4 - Nutritional Evaluation of Yeast Biomass from Candida Utilis as a protein source in cat diets. J. Anim Sci (Suppl) 2nd Place open MS Poster Competition.
7. Kiprotich, S., **C.G. Aldrich**. 2021. PSX-A-4 - Late-Breaking: Assessing the antifungal efficacy of EverWild™ D01 against Aspergillus flavus in semi-moist pet treats. J. Anim. Sci (Suppl). Late Breaking Abstracts.
8. Dainton, A.N., M.F. Miller, Jr., B. White, L.K. Lambrakis, **C.G. Aldrich**. 2021. 115 - Stability of Thiamine Supplied by Vitamin Premix and Yeast Ingredients in Canned Cat Food. J. Anim. Sci (Suppl).
9. Kilburn, L., M.L. Jolly-Breithaupt, Balk, D., **C.G. Aldrich**. 2021. 108 - Evaluation of Graded Levels of Grain Distillers Dried Yeast (GDDY) on Apparent Nutrient Digestibility and Stool Quality in Healthy Adult Dogs
10. Deliephan, A., J. Dhakal, **C.G. Aldrich**. 2021. Effects of liquid smoke preparations on shelf life and growth of wild-type mold and Aspergillus flavus in a model semi-moist pet food. Poster. Intl Assoc Food Protect. Phoenix, AZ
11. Dhakal, J., **C.G. Alrich**. 2021. A comparison of Salmonella survival and detection using an enrichment technique in dry and wet inoculated rendered chicken fat treated with sodium bisulfate (SBS). Intl Assoc Food Protect, Phoenix, AZ

12. Dhakal, J, **C.G., Aldrich**. 2021. Temperature dependent antimicrobial activity of menhaden fish oil in vitro and on pet food kibbles against *Salmonella* spp. Intl Assoc Food Protect., Phoenix, AZ.
13. Rivera, J., M.K. Pulivarthi, J. Dhakal, **C.G. Aldrich**, R. Phebus, and K. Siliveru. 2021. Quantitative transfer of *E. coli* (Non-Pathogenic) from Wheat into Milling Fractions and Equipment during Lab Scale Milling. Intl Assoc. Food Protect., Phoenix AZ.
14. **Aldrich, G.** 2021. Alternative Protein Sources: Sustaining Small Animal Nutrition into the Future. American Academy of Veterinary Nutrition, Invited presentation. June 3, 2021 (virtual conference).
15. **Aldrich, C.G.** 2021. Implications of Diet as a Contributing Factor to Canine Dilated Cardiomyopathy: DCM and Diet – The Formulators Dilemma. Amer College of Vet Internal Med. Invited Presentation, June 7, 2021 (virtual conference).
16. **Aldrich, C.G.** 2021. How We Have to Manage Basal Ingredients in Today’s New Foods. Controlling Phosphates in Pet Foods. Amer. College of Vet. Internal. Med. Invited Presentation. June 7, 2021 (virtual conference).
17. Deliephan, A., **C. G. Aldrich**, and T. W. Phillips. 2020. Efficacy of eight liquid smoke fractions on *Tyrophagus putrescentiae* infestation in semi-moist pet food. Entomological Society of America Virtual Annual Meeting, November 11–25
18. Dhakal, J., and **C. G. Aldrich**. 2020. Assessing the efficacy of addition of sodium bisulfate (SBS) in stored wheat grains to control *Aspergillus flavus* (ATCC 15548). International Association for Food Protection, Virtual Meeting, October 25-November 13.
19. Jared Rivera, J. Dhakal, **C. G. Aldrich** and K. Siliveru. 2020. Efficacy of sodium bisulfate (SBS) in reducing the Shiga-toxin-producing *E. coli* STEC (O121) load of wheat during tempering. International Association for Food Protection, Virtual Meeting, October 25-November 13.
20. Deliephan, A., **C. G. Aldrich**, and T. W. Phillips. 2020. Efficacy of liquid smoke fractions to control infestation of the ham mite, *Tyrophagus putrescentiae* (Schrank), in semi-moist pet food. International Association for Food Protection Virtual Annual Meeting, October 26–28
21. Corsato Alvarenga, I., and **C.G. Aldrich**. 2020. A model that predicts corn resistant starch type II during extrusion processing of a dog kibble. Cereals & Grains 20 Online, October 25–November 13, 2020
22. Dhakal, J. and **C. G. Aldrich**. 2020. The efficacy of sodium bisulfate (SBS) against *Aspergillus flavus* and *Fusarium graminearum*. Cereals and Grains Association Virtual Meeting, October 26-28.

23. Deliephan, A., J. Dhakal, and **C. G. Aldrich**. 2020. Antimycotic potential of liquid smoke fractions on grain storage fungi *Aspergillus flavus* and *Fusarium graminearum*. Cereals & Grains Virtual Annual Meeting, October 25–November 13
24. Mooney, A., A. Deliephan, D. Holt, **C. G. Aldrich**, and S. Alavi. 2020. Impact of fiber sources on extrusion processing and physical properties of extruded dog food. Cereals & Grains 20 Online, October 25–November 13, 2020
25. Lema, K.A. and **C.G. Aldrich**. 2020. Characterization of starch from whole wheat, whole white sorghum, whole red sorghum flours and in baked dog treats following addition of soluble animal proteins. Cereals and Grains, Oct 25-Nov 13
26. Lierz, R. and **C. G. Aldrich**. 2020. Process Development of Health Benefits from Corn in Pet Diets that Enhance Dog Utilization. Cereals and Grains 20 Online. October 25–November 13.
27. Acuff, H.A., K. A. Lema, R. W. Lierz, A. Hines, **C. G. Aldrich**, and S. Alavi. 2020. Expansion potential and physical implications of amylose:amylopectin ratio in extruded pet food. Cereals & Grains 20 Online, October 25–November 13, 2020.
28. **Aldrich, C.G.**, J.G. Pezzalli. 2020. The evaluation of protein and carbohydrate sources with an emphasis on their impact to taurine status in dogs. Proceedings of the Scientific Forum Exploring Causes of Dilated Cardiomyopathy in Dogs. Underwritten by the Food & Drug Administration. 29Sep2020, KSU Veterinary Diagnostic Laboratory virtual conference.
29. Acuff, H.A. and **C. G. Aldrich**. 2020. Bacillus coagulans: Probiotic retention during extrusion cooking with varying specific mechanical energy inputs. Petfood Connect Virtual Meeting. August 9-10 and 15-17, 2020.
30. Dhakal, J., and **C. G. Aldrich**. 2020. Effect of coating dry dog food with medium chain fatty acids (MCFA) on canine palatability. Pet food Forum, Virtual Meeting, September 9-10 and 15-17.
31. Holt, D., I. Alvarenga, R. Donadelli, K. Lema, A. Deliephan, and **C. G. Aldrich**. Fermentation characteristics of non-traditional fiber sources for pet foods. Petfood Connect Virtual Meeting. August 9-10 and 15-17, 2020
32. Dainton, A. N., J. G. Pezzali, D. Tomlinson, and **C. G. Aldrich**. 2020. The effect of copper source at minimum levels on off-colors, blemishes, and vitamin E content in a canned pet food. Petfood Connect Virtual Meeting. August 9-10 and 15-17.
33. Lierz, R. and **C. G. Aldrich**. 2020. Evaluating wicking of applied fat on pelleted, extruded, and baked animal foods. Petfood Connect Virtual Meeting. August 9-10 and 15-17.
34. Lema, K.A., and **C.G. Aldrich**. 2020. Supplementation of sorghum flour-based rotary molded pet treat with soluble animal proteins. Petfood Forum Connect, Sep 9-10, 15-17.

35. Dainton, A. N. and **C. G. Aldrich**. 2020. Protein quality of yeast biomass in diets for livestock and companion animals: A review of current knowledge. Virtual Global Animal Nutrition Summit, August 12-14.
36. Dainton, A.N., **C.G. Aldrich**. 2020. The effects of guar gum and other select gums and gelling carbohydrates on appearance, texture, and heating characteristics of wet pet foods Oral presentation #78 (1st place). ASAS-CSAS Virtual Annual Meeting, July 19-23.
37. Corsato Alvarenga, **C.G. Aldrich**, M.I. Jackson, and D.E. Jewell. 2020. The Effect of Resistant Starch Type II on Satiety Hormones of Fasting Dogs. PSVI-20 (2nd place) ASAS-CSAS Virtual Annual Meeting, July 19-23.
38. Acuff, H.L., **C.G. Aldrich**. 2020. Evaluation of graded levels of *Bacillus coagulans* (GBI-30, 6086) on apparent nutrient digestibility, stool quality, and intestinal health indicators in healthy adult dogs - PSVI-23. ASAS-CSAS Virtual Annual Meeting, July 19-23.
39. Holt, D.A., A. Mooney, A. Deliephan, S. Alavi, **C.G. Aldrich**. 2020. Post-Extrusion In-vitro Fermentability of Fiber in Extruded Dog Foods. PSVI-29. ASAS-CSAS Virtual Annual Meeting, July 19-23.
40. Lema Almeida, K.A, **C.G. Aldrich**, K. Koppel. 2020. Descriptive sensory evaluation of rotary molded sorghum-based dog treats supplemented with soluble animal protein. PSXI-30. ASAS-CSAS Virtual Annual Meeting, July 19-23.
41. **Aldrich. G.**, 2019. Effects of Processing on Pet Nutrition. ASAS 2019 Annual Meeting. Invited talk. July, Invited Presentation: Corbin Award Presentation. Austin, TX
42. **Aldrich. C.G.**, 2019. Where is pet food safety heading? Invited Presentation. Symposium Pet Food Safety. Institute of Food Technologists, June, New Orleans, LA
43. **Aldrich. C.G.** 2019. Proteins in modern pet foods: nutrient quality, processing and shelf-life considerations. AOCS Invited Presentation, May 2019. St. Louis.
44. Dhakal J., **Aldrich C. G.** 2019. Use of Medium Chain Fatty Acids (MCFA) to mitigate Salmonella Typhimurium (ATCC 14028) in Dry Pet Food Kibbles. International Association for Food Protection, Louisville, KY.
45. A. Deliephan, J. Dhakal, and **C. G. Aldrich** 2019. Assessing the efficacy of sodium bisulfate (SBS) in tempering water to control Shiga-toxigenic Escherichia coli (STEC) in wheat. IAFP, Louisville, KY.
46. Dainton, A.N., J.G. Pezzali, D. Tomlinson, and **C.G. Aldrich**. 2019. The effect of copper source on appearance, off colors, and other degradation products in a canned pet food. IFT Abstract 2019, New Orleans

47. Pezzali JG, Acuff H, Alexander C, Swanson KS, **Aldrich CG**. 2019. Effects of different carbohydrate sources on taurine status in healthy Beagle dogs. Animal Science Joint Annual Meeting; Austin, TX. Oral presentation.
48. Dainton, A. N.; J. M. Zurschmiede; R. S. Beyer; **C. G. Aldrich**. 2019. Evaluation of the protein quality of various dried chicken, egg, and pea proteins used in diets for dogs and cats. Joint Annual Meeting American Society of Animal Science. Poster presentation.
49. M. Morts, I. Silva, and C. G. Aldrich. 2019. Pepsin-pancreatin protein digestibility of various protein sources intended for pet food. ASAS Annual Meeting. Austin, TX.
50. Dhakal J., **Aldrich C. G.** (2019). Evaluation of the Efficacy of Medium Chain Fatty Acids (MCFA) against Salmonella Typhimurium (ATCC 14028) in Dry Pet Food Kibbles- Pet Food Forum, Kansas City, MO.
51. Dainton, A.N., **C.G. Aldrich**. 2019. Thiamine: Dietary importance, challenges in petfoods, and advancements in fortification. Petfood Forum, Kansas City, MO
52. Briana Yokum, Julia Guazzelli Pezzali, **Charles Gregory Aldrich**. 2019. Red and White Sorghum Acceptability Test. Petfood Forum 2019 (undergraduate research presentation)
53. Acuff, H.L. and **Aldrich, C.G.** (2019). Application Strategies & Efficacy of Probiotics in Pet Food: A Review [Abstract]. In: Pet Food Forum Conference Proceedings; 27-29 April 2019; Kansas City, MO.
54. M. Morts and **C. G. Aldrich**. 2019. Effect of storage time and antioxidant on oxidation measures in frozen and freeze-dried meat patties. (Invited Presentation) Petfood Forum. Kansas City, KS.
55. Alvarenga I. C., **C. G. Aldrich**, PhD. 2019. Starch Characterization of Commercial Pet Foods. Petfood Forum, 2019.
56. Pezzali, J.G., **Aldrich C.G.** 2019 Evaluation of white and red sorghum flour as potential ingredients for extruded crisp production. In: Petfood Forum; Kansas City, MO. Poster presentation
57. Pezzali, J.G., **Aldrich C.G.** 2019 Effect of ancient grains and grain free carbohydrate sources on nutrient digestibility and stool consistency in dogs. In: Petfood Forum; Kansas City, MO. Oral presentation
58. Morts, M.E., I. Silva, **C. G. Aldrich** Pepsin-Pancreatin protein digestibility of various protein sources intended for pet food ASAS 2019, 1st place Poster Competition
59. Donadelli, R.A.; **C.G. Aldrich**. 2019. Effects of fiber source on organic matter disappearance and fermentation end-products by an in vitro dog fecal inoculum model. Petfood Forum. Poster presentation.

60. Aldrich, G. 2018. Grain-Blame: Is there solid evidence behind Pet Food's angst over starches. AACCI (abstr), London, UK. Oct 23, 2018
61. Dhakal, J., **C.G. Aldrich**, C. Knueven. 2018. Effects of sodium bisulfate and organic acids on Salmonella mitigation in rendered chicken. Arkansas Association of Food Protection (2nd Place). Sep 17-19, Fayetteville AR.
62. Deliephan, A., J. Dhakal, and **C.G. Aldrich**. 2018. Method for determining minimum inhibitory concentration (MIC) of medium chain fatty acids (MCFA) for application to pet food to control Salmonella typhimurium. Arkansas Association of Food Protection (1st Place). Sep 17-19, Fayetteville AR.
63. Corsato-Alvarenga, I., **G. Aldrich**. 2018. Extrusion Processing of Dog Diets Containing Increasing Levels of Dehulled Faba Beans (*Vicia faba* L.). IFT18, Division: Food Engineering, abstract P04 - ID 011.
64. Guazzelli-Pezzali, J., **C.G. Aldrich**, W. Henry. 2018. Effects of Ancient Grains and Grain Free Dog Food on Extrusion Parameters and Kibble Traits. IFT18, Division: Carbohydrate, abstract P05 - ID 037.
65. Morts, M., **G. Aldrich**, N. Senanayake. 2018. The Effects of Antioxidants and Time in Storage on Measures of Shelf-life in Raw Pet Foods. IFT18, Division: Refrigerated & Frozen Foods, abstract P – AD 122.
66. Smith, S., **G. Aldrich**. 2018. - Evaluation of next generation-distillers dried grain as a dietary ingredient in dog and cat diets. J. Anim. Sci. Abstract #373
67. Donadelli, R., **G. Aldrich**. 2018.– A comparison of different methods of estimation of dry fecal output in dogs. Joint Annual Meeting American Society of Animal Science. Award for 2nd place for the poster presentation. J. Anim. Sci. Abstract # PSXIII-37
68. Dhakal, J., **C. Aldrich**, and C. Knueven. 2018. Assessing the Efficacy of Chemical Treatments to Control Salmonella typhimurium in Rendered Chicken Fat Applied in Pet Foods. Proceedings of the International Association of Food Protection, St. Lake City, UT. Abstract #P1-34, p 68.
69. Morts, M.E., and **C.G. Aldrich**. 2018. Nutritional Impacts of Oxidation By-products in Food: The Pet Food Dilemma. Invited Presentation (abstr) AOCS LOQ 5a. May 6-9. Minneapolis, MN.
70. Dhakal, J., **G. Aldrich**, and C. Knueven. 2018. Evaluation of the efficacy of chemical treatments to control Salmonella typhimurium. (abstr – oral) Proceedings Petfood Forum, Kansas City, Mo. April 24-25, 2018. p. 10.

71. Morts, M., **G. Aldrich**. 2018. Protein quality evaluation of different chicken protein sources for pet food. (abstr-oral) Proceedings Petfood Forum, Kansas City, Mo. April 24-25, 2018. p. 11.
72. Smith, S., **G. Aldrich**, S. Tilton. 2018. Effect of next generation-distillers dried grains on processing parameters of extruded dog and cat food. (abstr-oral) Proceedings Petfood Forum, Kansas City, Mo. April 24-25, 2018. p 11-12.
73. Booth, N.*, **G. Aldrich**, and S. Smith. 2018. The evaluation of legume seed and vegetable source protein quality by a chick growth assay. (abstr-poster) Proceedings Petfood Forum, Kansas City, Mo. April 24-25, 2018. p 12. (*undergraduate research)
74. Corsato-Alvarenga, I., **G. Aldrich**. 2018. Evaluation of faba beans (*Vicia faba* L.) as a dietary ingredient in dog diets. (abstr-poster) Proceedings Petfood Forum, Kansas City, Mo. April 24-25, 2018. p. 13.
75. Donadelli, R., **G. Aldrich**. 2018. The effects of fiber source on nutrient utilization by Beagle dogs. (abstr-poster) Proceedings Petfood Forum, Kansas City, Mo. April 24-25, 2018. p. 13
*1st place.
76. Guazzelli-Pezzali, J., **G. Aldrich**, W. Henry. 2018. Impact of ancient grains and grain-free starches on processing parameters and palatability in dogs. (abstr-poster) Proceedings Petfood Forum, Kansas City, Mo. April 24-25, 2018. p. 14.
77. Pontious, B.*, **G. Aldrich**, S. Smith. 2018. Evaluation of carriers for use in supplemental nutrient premixes in pet food and animal feeds. (abstr-poster) Proceedings Petfood Forum, Kansas City, Mo. April 24-25, 2018. p. 14. (*undergraduate research).
78. S. Smith, **G. Aldrich**. 2018. Repletion of pea protein concentrate protein quality with spray-dried egg and amino acids. (abstr-poster) Proceedings Petfood Forum, Kansas City, Mo. April 24-25, 2018. p. 15.
79. **Aldrich, C.G.** 2017. Pet Food Science at Kansas State University. Deans Advisory Board. 28Sep2017. Manhattan KS.
80. Donadelli, R. A., and **C. G. Aldrich**. 2017. Effect of Miscanthus grass as a dietary method to aid hairball control in cats. *J. Anim. Sci.* 95(Suppl4:236):116-116. [1st Place Graduate Poster Presentation]
81. Alvarenga, I. C., and **C. G. Aldrich**. 2017. Effect of diets containing sorghum fractions on antioxidant capacity of dogs and phenolic acids of both food and plasma measured by high performance liquid chromatography (HPLC). *J. Anim. Sci.* 95(Suppl4:239):117-118.
82. Alvarenga, I. C., **C. G. Aldrich**, and Z. Ou. 2017. Comparison of four digestibility markers to estimate fecal output of dogs. *J. Anim. Sci.* 95(Suppl4:223):110-110.

83. Molnar, L. M., R. A. Donadelli, and **C. G. Aldrich**. 2017. Retention of thiamine and other water soluble vitamins in a wet pet food application. *J. Anim. Sci.* 95(Suppl4:226):111-112.
84. Morts, M. E., **G. Aldrich**, C. K. Jones, and S. Beyer. 2017. An evaluation of the protein quality of various protein sources from chicken, whey, and soy concentrates commonly used in pet diets and select human performance foods. *J. Anim. Sci.* 95(Suppl4:235):116-116.
85. Alvarenga, I. C. and **C. G. Aldrich**. 2017. The Effects of Sorghum Fractions on Pet Food Extrusion, Digestibility and Antioxidant Capacity in Dogs. Pet Food Forum; Kansas City MO. Oral presentation
86. Donadelli, R. A., and **C. G. Aldrich**. 2017. Effect of fiber type on extruded dog and cat foods. *J. Anim. Sci.* 95(Suppl4:219):108-108.
87. Alvarenga, I. C., **C. G. Aldrich**, L. M. Molnar, M. E. Morts, and L. Schole. 2017. Evaluation of faba beans (*Vicia faba* L.) as a dietary ingredient in dog diets. *J. Anim. Sci.* 95(Suppl4:224):110-111.
88. Molnar, L. M., R. A. Donadelli, and **C. G. Aldrich**. 2017. The effect of container size and type on lethality values during production of thermally processed wet pet foods. *J. Anim. Sci.* 95(Suppl4:238):117-117.
89. Donadelli, R.A.; **C.G. Aldrich**. 2017. Effects of Miscanthus grass on processing and nutrient utilization in extruded foods for dogs and cats. Pet Food Forum 2017. Novel Ingredients section (invited presentation).
90. Alvarenga I. C., **C. G. Aldrich**, and R. A. Donadelli. 2016. The effect of milled sorghum fractions on diet utilization by dogs. *J. Anim. Sci.* 94:E-Suppl 5: 203
91. Donadelli R.A., **C. G. Aldrich**, and I. C. Alvarenga. 2016. Miscanthus grass utilization as a dietary fiber source for dogs. *J. Anim. Sci.* 94:E-Suppl 5: 203
92. Alvarenga, I.C., M. Kohles, and **C. G. Aldrich**. 2016. The effect of feed form on diet digestibility and cecal fermentation in rabbits. *J. Anim. Sci.* 94:E-Suppl 5: 200
93. Donadelli, R. A., **C. G. Aldrich**, and I.C. Alvarenga. 2016. The effect of Miscanthus grass as a fiber source in cat diets on nutrient utilization and stool consistency. *J. Anim. Sci.* 94:E-Suppl 5: 200 [1st place poster presentation]
94. Donadelli, R. A.*, **C. G. Aldrich**, C. K. Jones, R. S. Beyer, and R. L. Dake. 2016. The amino acid composition and protein quality of various poultry and vegetable proteins commonly used in the production of dog and cat diets. *J. Anim. Sci.* 94:E-Suppl 5: 199-200
95. Donadelli, R.A., **C.G. Aldrich**. 2016. The effect of fiber sources on extrusion parameters and kibble measurements in food for dogs. Petfood Forum. Poster presentation.

96. Stone, D.A*.; R.A. Donadelli; **C.G. Aldrich**. 2016. Effect of fiber source and particle size on chick performance. Petfood Forum. Poster presentation. *Undergraduate Research
97. Molnar, L. M., **C. G. Aldrich**, S. Beyer, C. K. Jones, and R. L. Dake, 2016. The effect of source and drying process on amino acid composition and protein quality of dried poultry used in high-quality pet diets and select human foods. *J. Anim. Sci.* 94:E-Suppl 5: 199
98. Jeffrey, A.M., **G. C. Aldrich**, A. R. Huss, C. J. Knueven, C. K. Jones. 2016. Effect of a dry acidulant coating on the palatability of dry extruded dog food. *J. Anim. Sci.* 94(Suppl 2):114-114
99. Alvarenga, I. C., and **C. G. Aldrich**. 2016. Introducing New Profit Stream for Grain Sorghum: Milling characteristics and inclusion considerations for use in Pet Foods. Pet Food Forum; Kansas City MO. Poster presentation.
100. Jeffrey, A.M., C.K. Jones, **C.G. Aldrich**, A.R. Huss, and C. Knueven. 2015. Time and dry acidulant addition substantially reduce Salmonella concentration in extruded dog food. American Society of Animal Science Joint Annual Meeting. *J. Anim. Sci.* 93(Suppl 3:LB5):ii.
101. Manbeck, A.E., **C.G. Aldrich**, and S. Alavai. 2015. The use of varying strengths of gelatin and the effect on physical properties of extruded pet food. American Society of Animal Science Joint Annual Meeting. *J. Anim. Sci.* 93(Suppl 3:393): 521.
102. Jeffrey, A.M., C.K. Jones, **C.G. Aldrich**, A.R. Huss, and C. Knueven. 2015. Identifying sources of Salmonella contamination in animal feed and pet food facilities. American Society of Animal Science Joint Annual Meeting. *J. Anim. Sci.* 93(Suppl 3:W95):653.
103. Tribble, S.D., **C.G. Aldrich**, and C.K. Jones. 2015. Effects of thiamin type, species meat versus livers, and sulfite addition on water-soluble B-vitamins in a canned cat diet. American Society of Animal Science Joint Annual Meeting. *J. Anim. Sci.* 93(Suppl 3:W97):653.
104. Manbeck, A.E., C.G. Aldrich, and S. Alavi. 2015. The effect of low-bloom gelatin on physical properties of extruded pet food. American Society of Animal Science Joint Annual Meeting. *J. Anim. Sci.* 93(Suppl 3:W99):654. [1st Place Graduate Poster Presentation]
105. Mooney, A., **C.G. Aldrich**, C.K. Jones, and S. Alavi. 2015. The effect of processing and elevated storage temperature on Omega-3 fatty acid stability in pet food. American Society of Animal Science Joint Annual Meeting. *J. Anim. Sci.* 93(Suppl 3:W103):655.
106. Gray, M., **C.G. Aldrich**, C.K. Jones, and M. Gibson. 2015. The impact of rendered protein meal level of oxidation on shelf life and acceptability in extruded pet foods. American Society of Animal Science Joint Annual Meeting. *J. Anim. Sci.* 93(Suppl 3:W105): 655.
107. Morts, M.E., J.D. Hancock, **C.G. Aldrich**, C.R. Stark, J. D. McAtee, and K.L. Kohake. 2015. Mix time does not affect growth performance in finishing pigs fed meal and pelleted

diets with high inclusion (32% DDGS and 32% wheat midds) of alternative ingredients. American Society of Animal Science Joint Annual Meeting. J. Anim. Sci. 93 (Suppl 3:122):228.

108. Manbeck, A., C.G. Aldrich, and S. Alavi. 2015. The effect of low bloom gelatin on the physical properties of pet food. Kansas State University Research Forum, Apr, 2015. Manhattan KS. [2nd Place Award]
109. Jeffrey, A. M., C. K. Jones, **C. G. Aldrich**, A. Rigdon, and C. Kneuve. 2015. Effects of dry acidulant coating on Salmonella contamination in commercial kibble. American Society of Animal Science Midwest Section Meeting. J. Anim. Sci. 93(Suppl 2:417):187.
110. Cochrane, R., C. R. Stark, A. R. Huss, **C. G. Aldrich**, C. J. Knueven, J. Pitts, and C. K. Jones. 2015. Salmonella surrogate mitigation in poultry feed using a dry acid powder. American Society of Animal Science Midwest Section Meeting. J. Anim. Sci. 93(Suppl 2:089):41.
111. **Aldrich, C.G.** 2015. Can nutrition alter dog and cat behavior? 14th Congress of Companion Animal Nutrition. Reiberio Preto City, Sao Paulo, Brazil. March 25, 2015.
112. **Aldrich, C.G.** 2015. Formulating to promote antioxidant defenses. 14th Congress of Companion Animal Nutrition. Reiberio Preto City, Sao Paulo, Brazil. March 25, 2015.
113. Koppel, K. 2014. Symposium: Preparing Future Companion Animal Biologists. How to effectively communicate science with pet owners and society: Understanding pet owners, purchasing decisions, and sensory characteristics of pet foods. J. Anim Sci 92: (Suppl 2:200). In Dr. Koppel's absence M. Swaney-Stueve and **C.G. Aldrich** presented.
114. Simmons, A., **C.G. Aldrich**, T. Zhou, M. Remund, T. Putarov, S. Alavi, E. Maichel, and C.K. Jones. 2014. Use of Gelatin as a strengthening agent in dry extruded pet food. J. Anim Sci 92: (Suppl 2:489). [1st Place Graduate Student Poster Presentation Award]
115. Gray, M., **G. Aldrich**, and C.K. Jones. 2014. Evaluation of common analysis methods for oxidation in rendered protein meals used to produce pet foods. J. Anim Sci 92: (Suppl 2:92).
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Presentations without Proceedings

1. **Aldrich, G.** 2021. Sorghum Use in Pet Foods. Leadership Sorghum. July 29, 2021, Holiday Inn at KSU Campus.
2. Dainton, A., K. Lema, H. Acuff, **C.G. Aldrich**. 2021. Student Research Showcase: Kansas State Pet Food Program” presented by Balchem. March 16, 2021 (Live Webinar).
3. **Aldrich, G.** 2021. Emerging Proteins in Small Animal Nutrition. Student chapter of the American Veterinary Medical Association (SAVMA) March 13, 2021 (recorded with live Q&A sessions).

4. **Aldrich, G.** 2020. Sorghum Use in Pet Foods. US Grains Council. 2020 CIPS Pet Food Ingredients Conference. November 13, 2020 (China; Virtual)
5. **Aldrich, C.G.**, 2020 What is new in soy proteins in pet foods: Current research regarding soybeans in dog and cat diets. Foro Moscotas Pet Food Mexico. September 23, 2020, Virtual conference. Keynote.
6. **Aldrich, G.** 2020. New and novel pet food and supplement ingredients: Critical things you should know. Petfood Industry Webinar. Aug. 25, 2020.
7. **Aldrich, C.G.** 2019. New and novel pet food and supplement ingredients: Critical things you should know. Petfood Industry: Watt Global Media Webinar. 18Aug2020
8. Perry, A., **C.G. Aldrich.** 2020. Determination of behavioral interplay between dogs and owners regarding food provided relative to weight control. KSRE Fellow Research Review. 31Jul2020.
9. **Aldrich, G.** 2020. Kansas Department of Agriculture: Ag Summit Pet Food in Kansas. 20Jul2020 (virtual)/
10. **Aldrich, G.** 2019. Leveraging science into product innovation. Pet Food R&D Showcase. 15-17Oct2019. Manhattan KS
11. **Aldrich, G.** 2019. Sorghum in Pet Food & Treats. 26Aug2019 Grain Export Council. Grapevine, TX
12. **Aldrich, C.G.** 2019. Formulation challenges that occur when using exotic proteins and legumes. Hills Pet Nutrition DCM panel. 19Aug2019. Topeka, KS
13. **Aldrich, G.**, H. Acuff. 2019. Product development perspectives: Natural pet foods & Treats. International Ingredients Nutrition Advisory Board. 6-7Aug 2019, St. Louis
14. **Aldrich, G.** 2019. Soy in Pet Food. USSEC Feed Workshop. IGP 29May2019
15. **Aldrich, G.** 2019. Ingredients – Quality, Variability, and Bioavailability. IGP Short Course: Alltech Brazil 22-24 May 2019
16. **Aldrich, G.** 2019. Updated on canine DCM investigation: Lessons learned, insights for the future. Moderator and content contributor. Petfood Forum, 1May2019. Kansas City, MO
17. **Aldrich, G.** 2019. Alternative Foods and Ingredients. IGP Short Course: Alltech Brazil 22-24 May 2019
18. **Aldrich, G.** 2019. Proteins in modern pet foods: Nutritional quality, processing and shelf-life considerations. IGP Short Course: Alltech Brazil 22-24 May 2019

19. **Aldrich, G.** 2019. Alternative Foods & Ingredients. Guest lecture. University of Arkansas. 15Mar2019. Fayetteville, AR
20. **Aldrich, G.** 2019. Pet Foods & Nutrition: Latest trends. Presentation to the APC Advisory Board. 4Apr2019 Ankeny, IA
21. **Aldrich, G.** 2018. Implications of Canine Dilated Cardiomyopathy on Ingredient Categories. 12th Annual Pet Food Conference, American Feed Ingredients Association. February 12, 2019. Atlanta GA
22. **Aldrich, G.** 2018. Petfood R&D Showcase: Treats, Toppers, and Inclusions. Welcome & Introduction to Petfood R&D Showcase. Manhattan, KS. Oct 10, 2018
23. Hartogensis, M., **G. Aldrich**, and L. Freeman. 2018. Mechanisms of Foods & Nutrition: A Case for Formulation. In: FDA possible dog food link to cardiomyopathy – Question & Answer Report. Petfood Industry Webinar. Sep 4, 2018.
24. **Aldrich, G.** 2018. Pet Foods & Nutrition: Latest Trends. Midwest Shippers/US Soybean Export Council Annual Meeting. Kansas City, MO. Aug 30, 2018.
25. **Aldrich, C.G.**, M.E. Morts, and R.A. Donadelli. 2018. Miscanthus Grass (aka FiberMax-7): Pet Food Processing and Feeding Trials. International Ingredients, Nutrition Advisory Board. St. Louis, MO. Aug 8, 2018.
26. **Aldrich, G.** 2018. What does “Clean Label” mean for pet food: Regulations, supply chain, and food processing, with critics, retailers, and consumers. (abstr) Amer. Meat. Sci. Inst., Reciprocal Meats Conference. Kansas City, MO. June 26, 2018
27. Yuhas, E., **G. Aldrich**, T. Blurton, C. Enright, S. Morris, and M. Wustenberg. 2018. CEO roundtable: attracting and retaining talent in the hyper-competitive pet food industry. Panel Discussion. Petfood Forum. Kansas City, MO. Apr 25, 2018.
28. **Aldrich, G.** 2018. New Product Development Journey. Petfood Innovation Workshop. K-State Olathe. Apr 23. 2018.
29. **Aldrich, G.** 2018. Pet Food - Alternative Foods & Ingredients. Lecture to Companion Animal Nutrition class, Animal Science Department, College of Agriculture, University of Arkansas. Fayetteville. Apr 13, 2018
30. **Aldrich, G.** 2018. Ancient grains and alternatives within traditional grains. In: Rethinking grains in today’s pet food. Petfood Industry Webinar. Mar 26, 2018.
31. **Aldrich G.** 2018. Is Sorghum a Superfood for Modern Pet Food? Sorghum Improvement Conference of North America. St. Louis, MO Jan 31, 2018.

32. **Aldrich, C.G.** 2017. Pet Nutrition: Latest Trends. International Ingredients Corp., Nutrition Advisory Board. Nov 6, 2017.
33. **Aldrich, C.G.** 2017. Marine Proteins and Fats in Pet Foods. Presentation to the 57th IFFO conference, Washington DC 23Oct2017.
34. **Aldrich, C.G.** 2017. How to solve extruded LID pet food production challenges. Oct 18, 2017 Webinar presented by Watt Global Media's Petfood Industry Magazine sponsored by Extru-Tech, Inc.
35. **Aldrich, C.G.** 2017. Alternative co-product streams from grains used in pet food applications. Pet Food R&D Showcase. 11Oct2017. KSU Foundation Center.
36. Pontious, B., **Aldrich, G.** 2017. Evaluation of carriers for use in supplemental nutrient premixes in pet food and animal feeds. Poster: Pet Food R&D Showcase. 11Oct2017. KSU Foundation Center.
37. Alvarenga, I.C., Ou, Z., **Aldrich, C.G.** 2017. Comparison of four digestibility markers to estimate fecal output of dogs. Pet Food R&D Showcase. 11Oct2017. KSU Foundation Center.
38. Alvarenga, I.C., **Aldrich, C.G.** 2017. Introducing new profit streams for grain sorghum: milling characteristics and inclusion considerations for use in pet foods. Pet Food R&D Showcase. 11Oct2017. KSU Foundation Center.
39. Alvarenga, I.C., **Aldrich, C.G.** 2017. Effects of Diets Containing Sorghum Fractions on Digestibility and Antioxidant Capacity of Dogs. Pet Food R&D Showcase. 11Oct2017. KSU Foundation Center.
40. Morts, M.E., **Aldrich, C.G.**, Jones, C.K., Beyer, S.R. 2017. An evaluation of the protein quality of various protein sources from chicken, whey, and soy concentrates commonly used in pet diets and select human performance foods. Pet Food R&D Showcase. 11Oct2017. KSU Foundation Center.
41. Donadelli, R.A., **Aldrich, C.G.** 2017. Effects of Miscanthus grass as a dietary method to aid hairball control in cats. Pet Food R&D Showcase. 11Oct2017. KSU Foundation Center.
42. Smith, S., **Aldrich, C. G.** 2017. Effect of distillers dried grains on processing parameters of extruded dog and cat foods. Pet Food R&D Showcase. 11Oct2017. KSU Foundation Center.
43. Alvarenga, I.C., **C.G. Aldrich.** 2017. Comparison of Four Digestibility Markers to Estimate Fecal Output in Dogs. Grain Science Graduate Student 10th Annual Symposium. 23Sep2017. International Grains Program, Kansas State University.

44. Donadelli, R.A., **C.G. Aldrich**. 2017. Effect of Fiber Type on Extruded Dog and Cat Foods. Grain Science Graduate Student 10th Annual Symposium. 23Sep2017. International Grains Program, Kansas State University.
45. Pezzali, J.G., **C.G. Aldrich**. 2017. Evaluation of Ancient Grains as Ingredients in Dog Diets. Grain Science Graduate Student 10th Annual Symposium. 23Sep2017. International Grains Program, Kansas State University.
46. Aldrich, C.G. 2017. Nutritional hot topics in the US pet food industry. US Grains Council. August 15, 2017. Manhattan KS.
47. Alvarenga, I. C., **Aldrich, C. G.** 2017. The Effects of Sorghum Fractions on Pet Food Extrusion, Digestibility and Antioxidant Capacity in Dogs. Pet Food Forum, April 23, 2017. Kansas City, MO.
48. Donadelli, R.A., **Aldrich, C.G.** 2017. Effects of Miscanthus grass on processing and nutrient utilization in extruded foods for dogs and cats. Pet Food Forum, April 23, 2017. Kansas City, MO.
49. Silva, I., **Aldrich, C.G.** 2017. Evaluation of Dehulled Faba Beans (*Vicia faba* L.) as a dietary ingredient in dog diets. LEAD 502 Developing Scholars Research Seminar SPARK event March 2017.
50. **Aldrich, G.** 2017. Research update: New protein sources. 2017 Pet Food Conference. American Feed Industry Association. 31Jan2017. Atlanta GA.
51. Alvarenga I., B. Di Donfrancesco, R. Donadelli, K. Koppel, and **G. Aldrich***. Inclusion of Sorghum in Pet food. K-State Research and Extension Mini-Symposium “Sorghum Research Update”. K-State Alumni Center. Oct 26, 2016.
52. Alvarenga, I.C., **C. G. Aldrich**. 2016. Effects of Diets Containing Sorghum Fractions on Digestibility and Antioxidant Capacity of Dogs. Grain Science Graduate Student 9th Annual Symposium. 15Oct2016. International Grains Program, Kansas State University.
53. Alvarenga, I.C., and **C. G. Aldrich**. 2016. Introducing New Profit Streams for Grain Sorghum: Milling Characteristics and Inclusion Considerations for Use in Pet Foods. Grain Science Graduate Student 9th Annual Symposium. 15Oct2016. International Grains Program, Kansas State University.
54. Molnar, L.M., **C.G. Aldrich**, S.R. Beyer, R. Dake, and C. Jones. 2016. The effect of source and drying process on amino acid composition and protein quality of dried poultry used in high quality pet diets and select human foods. Grain Science Graduate Student 9th Annual Symposium. 15Oct2016. International Grains Program, Kansas State University.
55. Molnar, L.M., and **C.G. Aldrich**. 2016. Retention of Thiamine in a Wet Pet Food Produced to Consistent Lethality (Fo) in Containers Differing in Size and Type. Grain Science

Graduate Student 9th Annual Symposium. 15Oct2016. International Grains Program, Kansas State University.

56. Donadelli, R.A., and **C.G. Aldrich**. 2016. Nutrient utilization, stool consistency, and urinary pH of cats fed Miscanthus Grass as a source of dietary fiber. Grain Science Graduate Student 9th Annual Symposium. 15Oct2016. International Grains Program, Kansas State University.
57. Donadelli R.A. and **C.G. Aldrich**. 2016. The effect of Miscanthus grass on nutrient utilization and stool consistency in food for dogs. Grain Science Graduate Student 9th Annual Symposium. 15Oct2016. International Grains Program, Kansas State University.
58. Donadelli, R.A., **C.G. Aldrich**, C.K. Jones, R.S. Beyer, and R. Dake. 2016. The amino acid composition and protein quality of various poultry and vegetable proteins commonly used in the production of dog and cat diets. Grain Science Graduate Student 9th Annual Symposium. 15Oct2016. International Grains Program, Kansas State University.
59. Chanadang, S. K. Koppel, and **G. Aldrich** Sensory analysis of extruded pet food with rendered protein meals Sep 14, 2016, K-State Pet Food Experience, KSU Alumni Center
60. **Aldrich, G.** et al., 2016. Proteins in modern pet foods: nutrient quality, processing and shelf-life considerations. Sep 14, 2016, K-State Pet Food Experience, KSU Alumni Center
61. Alvarenga I.C., **C. G. Aldrich**. 2016. Effects of Diets Containing Sorghum Fractions on Digestibility and Antioxidant Capacity of Dogs. Pet Food Experience Posters; KSU Alumni Center, 14Sep2016
62. Alvarenga I. C., and **C. G. Aldrich**. 2016. Introducing New Profit Streams for Grain Sorghum: Milling Characteristics and Inclusion Considerations for Use in Pet Foods. Pet Food Experience Posters; KSU Alumni Center, 14Sep2016
63. Molnar L.M., **C.G. Aldrich**, S.R. Beyer, R. Dake, and C. Jones. 2016. The effect of source and drying process on amino acid composition and protein quality of dried poultry used in high quality pet diets and select human foods. Pet Food Experience Posters; KSU Alumni Center, 14Sep2016
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66. Donadelli R.A., and **C.G. Aldrich**. 2016. The effect of Miscanthus grass on nutrient utilization and stool consistency in food for dogs. Pet Food Experience Posters; KSU Alumni Center, 14Sep2016

67. Stone D.A., R.A. Donadelli, **C.G. Aldrich**, and S.R. Beyer. 2016. Effect of fiber source and particle size on chick performance. Pet Food Experience Posters; KSU Alumni Center, 14Sep2016
68. Donadelli R.A., and **C.G. Aldrich**. 2016. Effect of different fiber sources on extrusion parameters and kibble measurements in cat food. Pet Food Experience Posters; KSU Alumni Center, 14Sep2016
69. Donadelli R.A., and **C.G. Aldrich**. 2016. The effect of fiber source on extrusion parameters and kibble measurements in food for dogs. Pet Food Experience Posters; KSU Alumni Center, 14Sep2016
70. Donadelli R.A., **C.G. Aldrich**, C.K. Jones, R.S. Beyer, and R. Dake. 2016. The amino acid composition and protein quality of various poultry and vegetable proteins commonly used in the production of dog and cat diets. Pet Food Experience Posters; KSU Alumni Center, 14Sep2016
71. Smith, S. **C.G. Aldrich**, K. Koppel, H. Li. 2016. Development of a preference ranking test with dogs. Pet Food Experience Posters; KSU Alumni Center, 14Sep2016
72. **Aldrich C. G.**, C. K. Jones, R. P. K. Ambrose, S.A. Beyer, K.A. Koppel, S. Chanadang, and M. N. Gray Rendered ingredients in pet food: Insights into processing and time as it relates to shelf-life. 2016. Aug 24, 2016. Rendering Summit. Kemin Industries, Des Moines IA
73. Stone, D.A., R.A. Donadelli, **C.G. Aldrich**, and S.R. Beyer. 2016. Effect of fiber source and particle size on chick performance. Pet Food Forum Poster Session, 19Apr2016 Kansas City Convention Center.
74. Donadelli, R.A., and **C.G. Aldrich**. 2016. Effect of different fiber sources on extrusion parameters and kibble measurements in cat food. Pet Food Forum Poster Session, 19Apr2016 Kansas City Convention Center.
75. Donadelli, R.A., and **C.G. Aldrich**. 2016. The effect of fiber source on extrusion parameters and kibble measurements in food for dogs. Pet Food Forum Poster Session, 19Apr2016 Kansas City Convention Center.
76. Donadelli, R.A., **C.G. Aldrich**, C.K. Jones, R.S. Beyer, and R. Dake. 2016. The amino acid composition and protein quality of various poultry and vegetable proteins commonly used in the production of dog and cat diets. Pet Food Forum Poster Session, 19Apr2016 Kansas City Convention Center.
77. Molnar, L.M., **C.G. Aldrich**, S.R. Beyer, R. Dake, and C. Jones 2016. The effect of source and drying process on amino acid composition and protein quality of dried poultry used in high quality pet diets and select human foods. Pet Food Forum Poster Session, 19Apr2016 Kansas City Convention Center.

78. Alvarenga, I.C., **C. G. Aldrich**. 2016. Effects of Diets Containing Sorghum Fractions on Digestibility and Antioxidant Capacity of Dogs. Pet Food Forum Poster Session, 19Apr2016 Kansas City Convention Center.
79. Alvarenga, I.C., and **C.G. Aldrich**. 2016. The effect of feed form on diet digestibility and cecal fermentation in rabbits. Pet Food Forum Poster Session, 19Apr2016 Kansas City Convention Center.
80. **Aldrich C. G.**, C. K. Jones, R. P. K. Ambrose, S.A. Beyer, K.A. Koppel, S. Chanadang, and M. N. Gray 2016 Evaluation of animal byproducts for use in modern pet foods: Insights into protein and fat quality March 17, 2016 ALAPRE Cancun, MX
81. **Aldrich, C.G.** 2016. What you need to know about entering the pet treat/food industry. Midwest Meat Processors Workshop. 4 Feb 2016, KSU.
82. **Aldrich, C.G.**, A. Mooney, S. DeNoya-Trible, S. Alavi, and C. Jones. 2015. Vitamin degradation in processed pet food. Kansas State University Pet Food Experience. October 29, 2015.
83. Frederking, M. and **G. Aldrich**. 2015. cGMPs and preventive controls: Understanding the new animal food requirements and how to demonstrate compliance. Conference Workshop. 2015 Feed & Pet Food Joint Conference. PFI and NGFA. Sep 90-Oct 1, 2015. Columbus OH.
84. **Aldrich, C.G.** 2015 Is Sorghum a Superfood for Modern Pet Food? July 22, 2015, World Pet Association's Superzoo and School of Animal Wellness, Las Vegas NV
85. **Aldrich, C.G.** 2015. Creating Ultra-Premium Petfoods: Clearing the Hurdles. July 28, 2015 Webinar presented by Watt Global Media's Petfood Industry Magazine sponsored by Extru-Tech, Inc.
86. **Aldrich, C.G.** 2015. Shared trends between pet and human foods (from a Pet Food perspective): Technical challenges and sustainability. American Meat Science Association – Reciprocal Meat Conference, June 15, 2015, Lincoln NE.
87. DeNoya-Trible, S.C., **C.G. Aldrich**. 2015. Thiamine degradation in canned food. Mini-Symposia "Fixated on Quality" DSM Technical Session, in conjunction with Petfood Forum, April 21, 2015. Kansas City.
88. Mooney, A., **C.G. Aldrich**, C.K. Jones, and S. Alavi. 2015. Vitamin stability through extrusion – New learnings. Mini-Symposia "Fixated on Quality" DSM Technical Session, in conjunction with Petfood Forum, April 21, 2015. Kansas City.
89. **Aldrich, C.G.** 2015. The impact of rendered protein meal level of oxidation on shelf life and acceptability in extruded pet food. Presented to the FPRF Scientific Advisory Board. April 21, 2015. Chicago IL.

90. **Aldrich, C.G.** 2014. High Meat Formulas: Formulation and Shrink Considerations. Nov 10, 2014. Webinar presented by Watt Global Media's Petfood Industry Magazine sponsored by Extru-Tech, Inc.
91. **Aldrich, C.G.** 2014. An overview of opportunities in pet food for rendered products including FPRF funded work in K-State's new program. Fats and Protein Research Foundation Emerging Issues Forum. October 22, 2014. Rancho Mirage, CA
92. **Aldrich, C.G.** 2014 Strategies for eliminating salmonella in pet foods in pet foods and animal feeds: A preliminary report. Arkansas Association for Food Protection and American Society for Microbiology Annual Educational Conference. Sep 12, 2014.
93. **Aldrich, C.G.** 2014. Are byproducts and grains really bad for your pet? Proceedings of the Ontario Veterinary Medical Association Annual Meetings. Toronto, ON. January 31, 2014
94. **Aldrich, C.G.** 2013. Pet Food Science at Kansas State University: A road map for research, education, and value enhancement of rendered ingredients for pet food and specialty feeds. Fats & Protein Research Foundation Emerging Issues Forum. October 22, 2013. Naples, Florida
95. **Aldrich, C.G.** 2013. Compliance with Feed Safety Regulations. AFIA 520: Advanced Feed Safety and Associated Quality Assurance Protocols. May 16, 2013.
96. **Aldrich, C.G.** 2013. Creating Nutritional Standards for Ingredients with High Variability. Petfood Workshop 2013: World of Ingredients. Watt Publishing. Chicago IL, April 17-18
97. **Aldrich, C.G.** 2013. Insuring High Quality Ingredients For Pet Foods: A proposed path forward. Poultry Protein and Fat Council, online symposium. February 29, 2013.
98. **Aldrich, C.G.** 2013 Rendered Ingredients in Pet Foods. National Renderers Association Rendering Symposium in conjunction with the International Poultry and Feed Exposition. January 31, 2013. Atlanta, GA.
99. **Aldrich, C.G.** 2013. Pet Food Safety Research: What Do We Know Today and Where Should We Go Next? AFIA Pet Food Safety Symposium. January 29, 2013. Atlanta, GA
100. **Aldrich, C.G.** 2012. By-Product Ingredients: Quality or Slogan. Canine Animal Extension, Canine Nutritional Webinar Series, November 29, extension.org/companion_animals
101. **Aldrich, C.G.** 2012. Production of Safe [Pet] Food: A review of what we know so far. Key Note Speaker, Chestnut Labs, Pet Food Safety Workshop, November 13-14, Kansas City, MO.
102. **Aldrich, C.G.** 2012. Smoothing the interface between renderers and pet food customers: A view from both sides and some ideas for improved communications, standards, and

realistic expectations on oxidation of rendered products. Fats & Protein Research Foundation Emerging Issues Forum. October 23, 2012. Laguna Nigel, CA

103. **C.G. Aldrich**. 2012. The Effects of processing on Pet food nutrition: The formulators dilemma. Lecture given to Food & Drug Administration, Center for Veterinary Medicine, Scientific Community. September 19. Rockville, MD.
104. **Aldrich, C.G.** 2012. Alternative Ingredients: Utility, Nutrition, and Functional Considerations in New Pet Foods. Roquette University. September 26. Chicago, IL.
105. **Aldrich, C.G.**, 2012. New Petfood Product Development – Managing expectations and timelines. Proceedings of the Petfood Workshop 2012: New Product Development. Watt Publishing. Chicago IL, April 4-5.
106. **Aldrich, G.** 2011. The effects of processing on petfood nutrition: the formulator’s dilemma. Speaker at Petfood Forum 2011. Petfood Industry/Watt Publishing Co., Chicago, IL.
107. **Aldrich, G.** 2011. The effects of processing on key nutrients: The pet food formulators dilemma. Pet Food Premix Short Course, State Line NV presented by Pacific Elements, LLC and Adisseo. July 26-27, 2011.
108. **Aldrich, G.** 2010. The effects of processing on pet food nutrition: the formulator’s dilemma. Guest Lecturer for Animal Sciences faculty and student seminar. Fall 2010. Iowa State Univ., Ames.
109. **Aldrich, G.** 2010. The effects of processing on pet food nutrition: the formulator’s dilemma. Guest Lecturer for Grain Science Seminar. April 27, 2010. Kansas State Univ., Manhattan.
110. **Aldrich, G.** 2010. General session: Ask the nutrition experts. Panelist for Petfood Workshop 2010. Petfood Industry/Watt Publishing Co., Chicago, IL.
111. **Aldrich, G.** 2009. Exotic ingredients in petfoods. Speaker for Virtual Petfood Forum held on October 28, 2009. Petfood Industry/Watt Publishing Co., Chicago, IL.
112. **Aldrich, G.** 2009. Pet foods: nutrition and ingredients. Instructor for Petfood Workshop 2009. Petfood Industry/Watt Publishing Co., Chicago, IL.
113. **Aldrich, G.** 2008. New product development ideas. Expert panelist for Petfood Forum 2008. Petfood Industry/Watt Publishing Co., Chicago, IL.
114. **Aldrich, G.** 2008. Ingredient quality assurance and purchasing post-melamine: The new burden. Invited speaker at the Conference on Pet Food Ingredient Quality. Sponsored by the American Feed Industry Association and the Poultry Protein & Fat Council. January 22, 2008. Atlanta, GA.

115. **Aldrich, G.** 2007. Using non-traditional ingredients in unconventional petfoods. Speaker for Watt Publishing/Petfood Industry Magazine Webinar held on March 6, 2007.
<http://www.ian.ibeam.com/events/watt001/21136/>
116. **Aldrich, G.** 2006. Pet food plus: Functional ingredients in the antioxidant defense system. Invited speaker at Pet Food Association of Canada Fall Conference 2006. Vancouver, BC.
117. **Aldrich, G.** 2006. Animal proteins in pet foods. Invited speaker at Fats & Proteins Research Foundation “Emerging Issues and Opportunities” Symposium. Chicago, IL.
118. **Aldrich, G.** 2005. New technologies and ingredients for pet food. Invited speaker at Pet Food Association of Canada Fall Conference 2005. Toronto, ON.
119. **Aldrich, G.** 2005. Innovative nutrition concepts for companion animals. Invited speaker at American Feed Industry Association Expo ‘05. Kansas City, MO.
120. **Aldrich, G.** 2004. Careers in the Petfood Industry. Seminar Speaker in Animal Sciences 580: Senior Seminar. Fall 2004. Kansas State Univ., Manhattan.
121. **Aldrich, G.** 2004. Nutritional Considerations of Dogs and Cats. Guest Lecturer in Animal Sciences 314: Comparative Animal Nutrition. Fall 2004. Univ. of Maryland, College Park.
122. **Aldrich, G.** 2004. Ingredient quality: Meeting the fat and protein needs of dogs and cats. Invited speaker at 95th AOCS Annual Meeting & Expo. Cincinnati, OH.
123. **Aldrich, G.** 2003. Considerations in Companion Animal Nutrition. Guest Lecturer in Animal Sciences 304: Companion Animal Management. Fall 2003. Kansas State Univ., Manhattan.
124. **Aldrich, G.** 2003. Considerations in Companion Animal Nutrition. Guest Lecturer in Animal Sciences 314: Comparative Animal Nutrition. Fall 2003. Univ. of Maryland, College Park.
125. **Aldrich, G.** 2003. Nutraceuticals Update. Invited speaker at Petfood Forum 2003. Petfood Industry/Watt Publishing Co., Chicago, IL.
126. **Aldrich, G.** 2003. Business Practices in the Petfood Industry. Guest Lecturer in Business 423: Operations Management. Emporia State Univ., Emporia.
127. **Aldrich, G.** 2002. Career Opportunities in the Petfood Industry. Seminar Speaker in Animal Sciences 580: Senior Seminar. Kansas State Univ., Manhattan.
128. **Aldrich, G.** 1999. Non-nutrient considerations in selection of ingredients in pet foods. Guest Lecturer in Animal Sciences 322. Univ. of Illinois, Champaign-Urbana.

129. **Aldrich, C. G.**, and R. E. Tribelhorn. 1996. Protein quality of chicken by-product meal is impacted by its composition. Poster presented at Iams International Nutrition Symposium, Boca Raton, FL.

Magazine Articles - Petfood Industry

1. **Aldrich, G.** 2021. Phosphorus in pet diets: How do we manage it? Pages 34-37 in Petfood Industry, February 2021. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
2. **Aldrich, G.** 2021. Plant-based proteins in pet food: The new, novel, niche. Pages 38-40 in Petfood Industry, February 2021. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
3. **Aldrich, G.** 2021. Single cell proteins: Yeast an emerging protein ingredient for pet food. Pages 30-33 in Petfood Industry, February 2021. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
4. **Aldrich, G.** 2021. Insect proteins: Commercial-scale options for pet food. Pages 34-37 in Petfood Industry, February 2021. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
5. **Aldrich, G.** 2021. Emerging protein sources in pet food. Pages 34-37 in Petfood Industry, February 2021. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
6. **Aldrich, G.** 2021. Beef by-products: No guts no glory! Pages 30-32 in Petfood Industry, February 2021. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
7. **Aldrich, G.** 2021. Beef: A popular, complicated ingredient in dog and cat diets. Pages 32-34 in Petfood Industry, January 2021. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
8. **Aldrich, G.** 2020. Spinach: Is this original superfood beneficial for dogs and cats? Pages 34-36 in Petfood Industry, December 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
9. **Aldrich, G.** 2020. Cruciferous vegetables: “Superfoods” in dog and cat diets? Pages 28-31 in Petfood Industry, November 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
10. **Aldrich, G.** 2020. An apple a day keeps the vet away ... are apples safe for pets? Pages 36-39 in Petfood Industry, October 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
11. **Aldrich, G.** 2020. How processing affects pet food products (Part 3). Pages 28-31 in Petfood Industry, October 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.

12. **Aldrich, G.** 2020. Blueberries: Does this superfood have a place in pet food? Pages 38-41 in Petfood Industry, September 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
13. **Aldrich, G.** 2020. How processing affects pet food products (Part 2). Pages 30-33 in Petfood Industry, September 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
14. **Aldrich, G.** 2020. How processing affects pet food products (Part 1). Pages 14-21 in Petfood Industry, August 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
15. **Aldrich, G.** 2020. Carrots: Getting down to the root of the issue for pets. Pages 40-43 in Petfood Industry, July 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
16. **Aldrich, G.** 2020. Should we be using more peanuts in pet food? Pages 38-41 in Petfood Industry, June 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
17. **Aldrich, G.** 2020. Cheese: A fun food ingredient for pets and their owners. Pages 30-33 in Petfood Industry, May 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
18. **Aldrich, G.** 2020. Bone broth: Add flavor, water, and electrolytes to pet diets. Pages 48-51 in Petfood Industry, April 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
19. **Aldrich, G.** 2020. Apple cider vinegar: Natural ingredient for pet foods? Pages 40-43 in Petfood Industry, March 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
20. **Aldrich, G.** 2020. Turmeric: Ancient spice may offer osteoarthritis relief in dogs, cat. Pages 32-35 in Petfood Industry, February 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
21. **Aldrich, G.** 2020. Onions and garlic offer flavor in the right amounts. Pages 34-37 in Petfood Industry, January 2020. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
22. **Aldrich, G.** 2019. Inositol: Why do some pet food companies include this ingredient? Pages 30-33 in Petfood Industry, December 2019. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
23. **Aldrich, G.** 2019. Whole Soybeans: Why hasn't pet food found this ingredient? Pages 28-31 in Petfood Industry, November 2019. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
24. **Aldrich, G.** 2019. Coconut Meal for dog and cat diets: Is this a good option? Pages 34-37 in Petfood Industry, October 2019. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.

25. **Aldrich, G.** 2019. Faba Beans for Pets: A new pulse for the dog and cat food market. Pages 34-37 in Petfood Industry, September 2019. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
26. **Aldrich, G.** 2019. Titanium Dioxide: a whitener with broad application. Pages 34-37 in Petfood Industry, July 2019. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
27. **Aldrich, G.** 2019. Miscanthus grass: A new fiber option for dog and cat diets. Pages 28-31 in Petfood Industry, June 2019. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
28. **Aldrich, G.** 2019. Synthetic preservatives in my pet's food – no thanks! Pages 46-48 in Petfood Industry, May 2019. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
29. **Aldrich, G.** 2019. Remove the chemicals from my pet's food. Pages 48-50 in Petfood Industry, April 2019. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
30. **Aldrich, G.** 2019. What does clean label mean in the pet food industry? Pages 60-63 in Petfood Industry, March 2019. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
31. **Aldrich, G.** 2019. Clean label pet food: How does mercury get into dog and cat foods? Pages 34-37 in Petfood Industry, February 2019. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
32. **Aldrich, G.** 2019. Clean label pet food: Is there any practical concern about arsenic in dog and cat foods? Pages 42-45 in Petfood Industry, January 2019. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
33. **Aldrich, G.** 2018. Clean label pet food: Are reports of heavy metals reliable? Pages 40-42 in Petfood Industry, December 2018. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
34. **Aldrich, G.** 2018. So what is 'right' about corn in pet diets? Pages 34-36 in Petfood Industry, November 2018. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
35. **Aldrich, G.** 2018. Grain-free dog food alert: Many questions still to answer. Pages 46-48 in Petfood Industry, October 2018. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
36. **Aldrich, G.** 2018. Don't panic yet about peas and potatoes in dog food diets. Pages 46-48 in Petfood Industry, September 2018. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.
37. **Aldrich, G.** 2018. Legume seed oligosaccharides: How much is just right in dog and cat diets? Pages 40-43 in Petfood Industry, July 2018. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL.

38. **Aldrich, G.** 2018. Lamb meal: Once novel, now a more mainstream commodity. Pages 40-42 in Petfood Industry, June 2018. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
39. **Aldrich, G.** 2018. Chicken meal: Is there anything new with this ingredient's use in pet food? Pages 46-48 in Petfood Industry, May 2018. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
40. **Aldrich, G.** 2018. Soybean meal: A quality ingredient with a lot of critics. Pages 60-62 in Petfood Industry, April 2018. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
41. **Aldrich, G.** 2018. Fish meal: Supply, preservation biggest challenges for dog and cat diets. Pages 68-70 in Petfood Industry, March 2018. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
42. **Aldrich, G.** 2018. Rice: longstanding staple for calories in dog and cat diets. Pages 46-49 in Petfood Industry, February 2018. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
43. **Aldrich, G.** 2018. Agar-agar: gelling agent option for canned dog and cat foods. Pages 48-49 in Petfood Industry, January 2018. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
44. **Aldrich, G.** 2017. Caramel Color: natural brown color for pet food with a hint of controversy. Pages 48-50 in Petfood Industry, December 2017. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
45. **Aldrich, G.** 2017. Beans: Where are they in dog and cat foods? Pages 38-40 in Petfood Industry, November 2017. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
46. **Aldrich, G.** 2017. Beyond grain free: wild rice for dog and cat foods. Pages 50-52 in Petfood Industry, October 2017. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
47. **Aldrich, G.** 2017. Beyond grain free: Sprouted grains and malt for dogs and cats. Pages 58-61 in Petfood Industry, September 2017. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
48. **Aldrich, G.** 2017. Beyond grain free: Chia as a modern ancient grain for dog and cats. Pages 46-49 in Petfood Industry, July 2017. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
49. **Aldrich, G.** 2017. Beyond grain free: ancient grains of wheat in dog and cat diets. Pages 38-41 in Petfood Industry, June 2017. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL

50. **Aldrich, G.** 2017. Beyond grain free: sowing the seeds of change in dog and cat diets. Pages 56-57 in Petfood Industry, May 2017. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
51. **Aldrich, G.** 2017. Maltodextrins: a unique sugar for special pet food applications. Pages 48-49 in Petfood Industry, April 2017. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
52. **Aldrich, G.** 2017. Green tea extract: Is this herb safe in dog, cat diets? Pages 72-74 in Petfood Industry, March 2017. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
53. **Aldrich, G.** 2017. Soybean hulls: Filler or quality fiber source for dogs and cats? Pages 46-47 in Petfood Industry, February 2017. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
54. **Aldrich, G.** 2017. Psyllium seed husks: Fiber source for dog and cat diets? Pages 50-51 in Petfood Industry, January 2017. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
55. **Aldrich, G.** 2016. Cranberries in dog and cat food: Any direct benefit? Pages 46-47 in Petfood Industry, December 2016. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
56. **Aldrich, G.** 2016. Millet: An alternative ingredient in dog and cat food? Pages 40-41 in Petfood Industry, November 2016. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
57. **Aldrich, G.** 2016. Duck in dog, cat food: The other red meat? Pages 46-47 in Petfood Industry, October 2016. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
58. **Aldrich, G.** 2016. Copper-associated liver disease in dogs: genetics issue? Pages 48-49 in Petfood Industry, September 2016. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
59. **Aldrich, G.** 2016. Molasses: Sweetener or functional carbohydrate? Pages 52-53 in Petfood Industry, July 2016. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
60. **Aldrich, G.** 2016. Lipoic acid: Significant benefits for aging pets? Pages 40-41 in Petfood Industry, June 2016. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
61. **Aldrich, G.** 2016. Gelatin: Has its time come for pet food applications? Pages 48-49 in Petfood Industry, May 2016. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
62. **Aldrich, G.** 2016. Green lipped mussel: Pet joint health support? Pages 52-53 in Petfood Industry, April 2016. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL

63. **Aldrich, G.** 2016. Folic acid: Essential vitamin for dogs and cats. Pages 86-87 in Petfood Industry, March 2016. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
64. **Aldrich, G.** 2016. Meat and novel proteins in pet food. Pages 46-47 in Petfood Industry, February 2016. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
65. **Aldrich, G.** 2016. Vitamin B₁₂ (Cyanocobalamin): A small add with a big story. Pages 44-45 in Petfood Industry, January 2016. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
66. **Aldrich, G.** 2015. Organic acid cultures provide opportunity for natural mold inhibition. Pages 44-45 in Petfood Industry, November 2015. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
67. **Aldrich, G.** 2015. Freeze-dried meat and pet food. Pages 40-41 in Petfood Industry, October 2015. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
68. **Aldrich, G.** 2015. Could tree nuts be a novel ingredient for pets? Pages 52-53 in Petfood Industry, September 2015. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
69. **Aldrich, G.** 2015. Citrus pulp: An alternative pet food fiber source? Pages 52-53 in Petfood Industry, July 2015. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
70. **Aldrich, G.** 2015. Buckwheat: a viable grain-free pet food ingredient? Pages 38-39 in Petfood Industry, June 2015. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
71. **Aldrich, G.** 2015. Casein: Does it have a use in pet food? Pages 54-55 in Petfood Industry, May 2015. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
72. **Aldrich, G.** 2015. Is extra biotin beneficial for pets' skin and coat? Pages 52-53 in Petfood Industry, April 2015. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
73. **Aldrich, G.** 2015. Zinc sources: A matter of choice in the petfood industry. Pages 84-85 in Petfood Industry, March 2015. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
74. **Aldrich, G.** 2015. Protein quality: Real nutrition versus public perception. Pages 45-46 in Petfood Industry, February 2015. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
75. **Aldrich, G.** 2015. Adding a little color to petfoods – naturally. Pages 50-51 in Petfood Industry, January 2015. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL

76. **Aldrich, G.** 2014. DL-methionine in short supply – what are the options? Pages 46-47 in Petfood Industry, December 2014. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
77. **Aldrich, G.** 2014. Could pumpkin ever be more than a petfood novelty? Pages 42-43 in Petfood Industry, November 2014. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
78. **Aldrich, G.** 2014. Is resistant starch a future fiber in petfoods? Pages 40-41 in Petfood Industry, October 2014. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
79. **Aldrich, G.** 2014. News from the JAM companion animal program. Pages 54-55 in Petfood Industry, September 2014. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
80. **Aldrich, G.** 2014. News from AAVN Nutrition and Research Symposium. Pages 48-49 in Petfood Industry, July 2014. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
81. **Aldrich, G.** 2014. Propylene glycol: When, where and how should it be used. Pages 42-43 in Petfood Industry, June 2014. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
82. **Aldrich, G.** 2014. Venison, rabbit, buffalo: Throwback to our pets' past. Pages 40-41 in Petfood Industry, May 2014. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
83. **Aldrich, G.** 2014. Copper sulfate: A standard of reference for copper in petfood. Pages 40-41 in Petfood Industry, April 2014. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
84. **Aldrich, G.** 2014. Coconut oil: Does it belong in commercial petfoods? Pages 86-87 in Petfood Industry, March 2014. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
85. **Aldrich, G.** 2014. Grapes and raisins: Are they really toxic to pets? Pages 48-49 in Petfood Industry, February 2014. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
86. **Aldrich, G.** 2014. Fillers: Are they incorrectly vilified? Pages 46-49 in Petfood Industry, January 2014. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
87. **Aldrich, G.** 2013. Glycemic index: Elegant technique in search of a petfood product claim. Pages 44-47 in Petfood Industry, December 2013. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
88. **Aldrich, G.** 2013. Lecithin: Emulsifier and more. Pages 38-41 in Petfood Industry, November 2013. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL
89. **Aldrich, G.** 2013. L-lysine monohydrochloride: A key amino acid. Pages 44-45 in Petfood Industry, October 2013. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL

90. **Aldrich, G.** 2013. Poultry by-product meal and poultry meal: Is there a difference? Pages 56-57 in Petfood Industry, September 2013. D. Phillips-Donaldson, ed. WATT Global Media, Rockford, IL (A rerun by request from January 2004)
91. **Aldrich, G.** 2013. Do clay minerals have merit in petfood? Pages 54-55 in Petfood Industry, July 2013. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
92. **Aldrich, G.** 2013. Alfalfa: A smart choice for dog and cat food? Pages 42-43 in Petfood Industry, June 2013. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
93. **Aldrich, G.** 2013. Pyridoxine hydrochloride: The stealth vitamin B₆. Pages 40-41 in Petfood Industry, May 2013. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
94. **Aldrich, G.** 2013. Salmonella: The ingredient no one wants in their petfood. Pages 46-48 in Petfood Industry, April 2013. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
95. **Aldrich, G.** 2013. Petfood additive a leading dental health aid. Pages 80-81 in Petfood Industry, March 2013. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
96. **Aldrich, G.** 2013. Xanthan gum: Functional carbohydrate for petfoods? Pages 44-45 in Petfood Industry, February 2013. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
97. **Aldrich, G.** 2013. Ancient grains for today's petfood: Amaranth and quinoa. Pages 42-43 in Petfood Industry, January 2013. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
98. **Aldrich, G.** 2012. Soybean oil: Food industry staple right for petfood?. Pages 44-45 in Petfood Industry, December 2012. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
99. **Aldrich, G.** 2012. Yucca schidigera: Latin for odor-reducing petfood ingredient. Pages 48-49 in Petfood Industry, November 2012. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
100. **Aldrich, G.** 2012. Organ meats: quality source of protein for pets. Pages 40-41 in Petfood Industry, October 2012. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
101. **Aldrich, G.** 2012. Pea proteins: Alternative protein source for petfoods? Pages 54-55 in Petfood Industry, September 2012. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
102. **Aldrich, G.** 2012. Lactic acid: magic bullet for petfood safety? Pages 42-43 in Petfood Industry, July 2012. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL

103. **Aldrich, G.** 2012. Betaine: natural ingredient for next generation of petfoods. Pages 40-41 in Petfood Industry, June 2012. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
104. **Aldrich, G.** 2012. Sodium bisulfate: multipurpose petfood ingredient. Pages 36-37 in Petfood Industry, May 2012. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
105. **Aldrich, G.** 2012. Olive oil: A benefit to pet health, too? Pages 40-41 in Petfood Industry, April 2012. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
106. **Aldrich, G.** 2012. The formulator's dilemma: How processing affects pet nutrition. Pages 60-66 in Petfood Industry, March 2012. D. Phillips-Donaldson, ed. Watt Publishing Co., Rockford, IL
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