

Curriculum Vita

Byeng Ryel Min

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EDUCATION

Kon-Kuk University, Animal Feed and Nutritional Science, B.S. 1989
Massey University, New Zealand, Animal Science, MS., 1998
Massey University, New Zealand, Ph.D., 2000

RELEVANT EXPERIENCE/EMPLOYMENT

Associate Professor: 2021-current: Department of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088.
Research Animal Scientist: 2018-2021: USDA/ARS, Bushland, TX.
Assistant Professor: 2009-2018: Department of Agricultural and Environmental Sciences, Tuskegee University, Tuskegee, AL 36088.
Research Scientist: May 2002- May 2007: Texas A & M University, Vernon, TX.
Postdoctoral Visiting Fellow: March 2000- October 2002. American Goat Research Center, Langston University, Langston, OK.

AREAS OF INTEREST

Research: Sustainable and profitable animal production systems.
Improve feed efficiency associated with the gut microbiome.
Dietary mitigation options to improve feed efficiency, greenhouse gas reduction, and animal health.

CURRENT PROFESSIONAL AND SCIENTIFIC SOCIETY ACTIVITIES

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- National Animal Nutrition Program (NANP) Coordinating Committee and the Administrative Advisors for the NRSP-9: 2026-2030.
 - Editorial Board Member, Animals Journal.
 - American Society of Animal Science Member.
 - Member of Gamma Sigma Delta.
 - A member of the Southern Consortium for Small Ruminant Parasites Control.
 - A Committee of Southern Intercollegiate Dairy Challenge Committee.
 - International Online Conference Chair on Animals, March 2026

GRANTS AND FUNDED PROJECTS

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- **Between 2006 and 2026:**
 - Granted Diamond V company grant (PI; 2006; \$100,000), Southern SARE (Co-PI; 2010-2013), S-SARE (CO-PI; 2013-2015), USDA/NIFA (2013-2016), US-AID-Egypt Fund (PI; 2014-2015), S-SARE (PI; 2015-2017), USDA/NIFA (Co-PI, 2018-2020).
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 - Granted USDA-CBG, CO-PI. Experiential Learning in the Animal Bio-Health Sciences: Sustainable Control of Internal Parasites in Small Ruminants. 2020-2023. \$200,000.
 - Granted USDA/ARS, PI. Mitigation of greenhouse gas emissions from cattle. 2020-2021. \$300,000.

- Granted S-SARE (PI): Harvest Management and Genotype Effects on Sunn Hemp forage as Cover Crop to Improve Sustainable Beef Cattle Production in Southeastern USA" for the 2022 Southern On-Farm Research Grant. \$20,000.
- Granted to improve calves' immune systems using a probiotic/postbiotic supplementation (PI): 2023-2025. Funded by Verdesian Life Sciences, 2700 S 600 W, South Salt Lake, UT 84115, USA. \$50,000.
- **Granted USDA-NIFA (PI): USDA/NRCS (Award #: NR233A750004G103):** Improved Practices of Climate-Smart Livestock Production Systems and Agricultural Commodities while Enhancing Carbon Sequestration in the Southern USA: Innovating toward a new climate-smart commodity by investing in minority producers. 2023-2028. \$4,150,000.
- **Capacity Building Grant (CBG), CO-PI, USDA/NRCS (Sub-award #: SUB2024-012).** Experiential Learning in Animal Bio-Health Sciences: Processing, Formulating, and Feeding Sustainable Animal Feed. 2023-2026, \$300,000.
- Granted **USDA-NIFA (CO-PI; Sub-award #: LU-520594-1):** Mitigation effects of heat stress in Caribbean Animal Production: Center for Excellence for Global Food Security and Defense (CEGFSD). 2025-2026. \$149,917.

PATENT;

1. Kim Jong Bae and Min B.R., etc. 2010. Effect of Korean mistletoe extraction on the life span extensions (PAT: KR20100102471).
2. Solaiman, S., and B.R. Min. 2014. Feed supplement products and methods of using such products for the improved raising of ruminant livestock animals (US20140147533A1).
3. Mariline Hillaire, Byeng R. Min, and Jasse Jane. 2026. POLYPEPTIDE SUPPLEMENTATION METHOD TO REDUCE HAEMONCHUS CONTORTUS INFECTION. In progress.

TEACHING EXPERIENCE;

- Dairy Science (APSC 302) - Tuskegee University.
- Advanced Animal Nutrition (APSC 603)-Tuskegee University
- Ruminology (APSC 602)- Tuskegee University

AWARDS/ACHIEVEMENTS;

1. Tuskegee University Outstanding Faculty Performance Award (Research)—College of Agriculture, Environment, and Nutrition Sciences (2015).
2. The Best Researcher award by the International Environmental Scientist Award. entitled "Malting Barley as a Potential Feed Supplementation for the Reduction of Enteric Methane Emissions, Rumen Digestibility, and Microbiome Community Changes in Laboratory Conditions" *Animals* 2025, 15, 664. <https://doi.org/10.3390/ani15050664>

Invited speaker

International Symposium

1. Min, B.R. (2022). Invited as a keynote speaker. Nutritional management for enteric methane abatement and its mitigation options. Rural Development Administration (RDA) in South Korea.). February 17, 2022.
2. Min, B. R. (2021). Invited as a keynote speaker. Dietary mitigation of enteric methane emissions and animal production from ruminants: plant tannins mitigation options. In: Technology Innovations and Collaborations in Livestock Production for Sustainable Food Systems" Indonesian Center For Animal Research and Development, Indonesia. September 05-07, 2021. <http://peternakan.litbang.pertanian.go.id/intsem/home>.

3. Min, B.R. (2021). Invited as a keynote speaker. Mitigating methane gas emissions and improving feed efficiency in ruminants, Seoul National University, S. Korea. September 16 to 17, 2021.
4. Min, B. R. (2013). Invited as a keynote speaker. Alternative Parasite Control Symposium. University of San Carlos, Guatemala.
5. Min B.R. (2007). Invited as a guest speaker. International Beef Cattle Production System. Mexican Beef Assoc., Mexico City, Mexico.
6. Min, B.R. (2007). Invited as a keynote speaker. Agricultural and Environmental Symposium. Alternative parasites control in ruminants, Chapingo Autonomous University, Mexico.

Domestic Symposium (USA)

7. Min, B. R., 2019. Invited as a keynote speaker. Plant secondary compounds, animal health, and functional food production, American Society of Animal Science (ASAS), Austin, TX.
8. Min, B.R. 2012. Consequences of plant secondary compounds on ruminant nutrition. American Society of Animal Science (ASAS). Invited as a guest speaker, Page 575, Phoenix, AZ.
9. Eun, J.S. and B. R. Min. 2012. Emerging opportunities and challenges in the exploitation on bioactive plant secondary compounds to mitigate environmental impacts by ruminants. American Society of Animal Science (ASAS). Invited as a guest speaker. Page 577, Phoenix, AZ
10. Min, B.R. 2004. The effect of plant tannins on the nutrition and health of livestock and humans. Proc. of the 2nd Annual Medical and Aromatic Plants Symposium. USDA/ARS/MSU, Beckly, WV.

BOOK PUBLICATION:

A. Book Chapter:

1. Patra, A.K., **B.R. Min**, and J. Saxena. 2012. Dietary tannins on microbial ecology of the gastro-intestinal tract in ruminants. In Dietary Phytochemicals and Microbes. A.K. Patra
2. **Min, B.R.** (Editor). 2017. Sustainable Non-synthetic Gastrointestinal Parasites Control in Small Ruminants. Online publication. www.tuskegee.edu/Content/Uploads/Tuskegee/files.

B. Online Publication for Minority Producers

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1. Timely topic: June 2014
Pine bark and other natural dewormers for small ruminants. American Consortium for Gastrointestinal Parasite Control. <http://www.wormx.info/index.html>
 2. Sustainable methods for managing internal parasites in small ruminants: natural dewormers. 2014. Academic Affairs/Agriculture and Natural Sciences/ ARD Impact Statement.
 3. Forage-based dairy goat management, 2016. Steve P. Hart and B. R. Min. <http://www2.luresext.edu/goats/library/field/hart02.html>

PUBLICATIONS

1. **Min, B.R.**, M. Hilaire, H. H. Wang, A. Kumi, S. Chaudhary, V. Kanyi, I. Min, U. Y. Kim, I. Ha, H. Abdo, H. Ismael, S. Yang, and R. Puchala. 2026. The Effect of Postbiotic Supplementation on Body Weight Changes, Blood Metabolic Profiles, Rumen Microbiome Changes, and Immune Responses in Dairy Calves. Open Journal of Animal Science. Open Journal of Animal Sciences, 2026, 16(3): 193-214.
2. <https://www.scirp.org/journal/ojas>
3. **Min, B. R.**, G. Genovese, D. Spagnuolo, M. Hilaire, H. Ismael, S. Chadhury, Dipti W. Pitta, N. Indugu. 2026. The potential role of two red macroalgae (*Asparagopsis taxiformis* and *A. armata*) that promote anti-methanogenic activities in laboratory conditions. Algal research. Social Science Research Network (SSRN): <https://ssrn.com/abstract=6332399> or <http://dx.doi.org/10.2139/ssrn.6332399>.

4. Hilaire, M., B. Gines, W. E. Collier, H. H. Wang, S. Chaudhary, V. Kanyi, H. Abdo, H. Ismael, E. C. Preux, M. Boersma, and **B. R. Min**. 2025. Comparison of metabolomic signatures between low and heavy parasite burden of *Haemonchus contortus* in meat goats fed with *Cynodon dactylon* (Bermudagrass) and *Crotalaria juncea* L. (Sunn Hemp). *Metabolites*. <https://creativecommons.org/licenses/by/4.0/>.
5. **Min, B. R.**, H. Ismael, S. Chaudhary, M. Hilaire, V. Kanyi, H. Wang, H. Abdo, and R. Puchala. 2025. The effect of *Methylococcus capsulatus* in mono- or co-culture with *Methanobrevibacter smithii* or with mixed rumen fluid on bacterial growth and methane gas production. *J. Anim. Sci.* 104: 1-40. DOI: 10.1093/jas/skaf383.
6. **Min, B. R.**, R. V. Lourencon, I. Nagaraju, D. Pitta, H. Ismael, H. Abdo, S. Chaudhary, M. Hilaire, V. Kanyi, S. Solaiman, and R. Puchala. 2025. The Effect of the Forage-to-Concentrate Ratio of the Total Mixed Ration on Ruminal Microbiota Changes in Alpine Dairy Goats. *Journal of Animal Science*. DOI: 10.1093/jas/skaf260.
7. **Min, B.R.**, Rui Chen, Nar Gurung, Sandra Solaiman, Mariline Hilaire, Hossam Ismael, Heba Abdo, Santosh Chaudhary, and Frank Abrahamsen. 2025. Change detection in rumen fermentation characteristics and ruminal methane gas emissions caused by substituting steam-flaked corn with steam-flaked wheat grains in beef finishing diets in laboratory conditions *Animal Science Journal*. DOI: 10.1111/asj.70075.
8. **Min, B.R.**, U. Yutaka, H. Ismael, H. Abdo, S. Chaudhary, M. Hilaire, and V. Kanyi. 2025. Malted Barley as a Potential Feed Supplementation for Reducing Enteric Methane Emissions, Rumen Digestibility, and Microbiome Community Changes in Laboratory Conditions. *Animals* 2025, 15, 664: 1-26. <https://doi.org/10.3390/ani15050664>.
Min, B. R., W. Wang, D. W. Pitta, N. Indugu, A. K. Patra, H. H. Wang, F. Abrahamsen, M. Hilaire, and R. Puchala. 2024. Characterization of the Ruminal Microbiota in Sheep and Goats Fed Different Levels of Tannin-Rich Sericea Lespedeza Hay. *Journal of Animal Science*, 102: skae198, <https://doi.org/10.1093/jas/skae198>
9. Solaiman, S., A. B. Kyla, and **B. R. Min**. 2024. Effect of high molybdenum diet on copper status, growth performance, blood metabolites, select liver and kidney minerals, and immune responses of Boer crosses. *Animals* (ISSN 2076-2615). *Animals* 2024, 14(11), 1604; <https://doi.org/10.3390/ani14111604>
10. Puchala, R.; Yirga, H.; Patra, A.K.; Gipson, T.A.; **Min, B.R.**; Goetsch, A.L. Determining Appropriate Numbers and Times of Daily Measurements Using Green Feed System to Estimate Ruminal Methane Emission of Meat Goats. *Animals* 2024, 14:1-13. <https://doi.org/10.3390/ani14060835>.
11. Beck, M.R., J.A. Proctor, Z. Kasuske, J.K. Smith, V.N. Gouves, C.L. Lockard, **B. Min**, and D. Brauer. 2023. Effects of replacing steam-flaked corn with increasing levels of malted barley in a finishing ration on feed intake, growth performance, and enteric methane emissions of beef steers. *Applied Animal Science*, 39: 525-534. DOI: 10.15232/aas.2023-02435.
12. Gurung, R., N. Gurung, W. Abebe, C. Okere, **B. Min**, and F. Abrahamsen. 2022. Altering the gut microbiome of meat goats: Feeding varying levels of hempseed meal on animal performance, rumen microbiome abundance, and methanogen community changes of meat goats. *BAOJ Microbiology*. 6: 1006; 1-10. <https://www.researchgate.net/publication/363484580>
13. **Min, B. R.**, S. Lee, H. Jung, D. N. Miller, and R. Chen. 2022. Enteric Methane Emissions and Animal Performance in Dairy and Beef Cattle Production: Strategies, Opportunities, and Impact of Reducing Emissions. *Animals*. 7:12(8): 948. doi: 10.3390/ani12080948.

14. Abrahamsen, F., **B. R. Min**, C. Okere, R. Gurug, and W. Abebe, **2022**, Altering the gut microbiome of meat goats: feeding varying levels of hempseed meal on animal performance, rumen microbiome abundance, and methanogen community changes of meat goats. *BAOJ Microbiology*, 6: 1-10.
15. Waldrip, H., D. Parker, Durso, L., Miller, D., **B. R. Min**, K. Casey, Spiehs, M., Woodbury, and B., Trippe, K. **2022**. Microbial community Structure from Southern High Plains Beef Cattle Feedyard Manure and Relationship with Nitrous Oxide Emissions" (AGE-2022-04-0030-ORA.R1). Agrosystems, Geosciences & Environment.
16. Waldrip, H., R. C., Schwartz, Z. He, R.W. Todd, R.L. Baumhardt, M. Zhang, D. Parker, D. Brauer, and **B. R. Min**. **2022**. Soil water extractable matter under long-term dry land cropping systems on the Texas High Plains. *Soil Chemistry. Soil Sci. Soc. Am. J.* 86: 1249-1263.
17. Michael E. Hume, E. Ledezma, O. Ruiz-Barrera, Y. Castillo-Castillo, A. Arzola-Rubio, M. Ontiveros-Magadan, **B. R. Min**, L. R. Wottlin, R. Copado, J. Salinas-Chavira. **2022**. Effect of select tannin sources on pathogen control and microbial nitrogen metabolism in composted poultry litter intended for use as a ruminant crude protein feedstuff, by Claudio Arzola-Alvarez, Robin Anderson. *Front. Vet. Sci.*, 21: 1-9. <https://doi.org/10.3389/fvets.2022.930980>
18. Waldrip, H., R. C. Schwartz, Z. He, R. W. Todd, R. L. Baumhardt, M. Zhang, D. Parker, D. Brauer, and **B. R. Min**. **2022**. Soil water extractable organic matter under long-term dryland cropping systems on the Texas high plains. *Soil Science Society of American Journal*. <https://doi.org/10.1002/saj2.20432>.
19. **Min, B.R.**, S. Lee, H. J. Jung, D. N. Miller, and R. Chen. **2022**. Enteric methane emissions and animal performance in dairy and beef cattle production: enumerating the opportunities and impact of reducing emissions. *Animals Journal*. 12(8), 948; <https://doi.org/10.3390/ani12080948>.
20. **Min, B.R.**, D. Parker, D. Brauer, H. Waldrip, C. Lockard, K. Hales, A. Akbay, and S. Augyte. **2021**. The role of seaweed as a potential dietary supplementation for enteric methane mitigation in ruminants: Challenges and opportunities. *Animal Nutrition Journal*. 7: 1371-1387. <https://doi.org/10.1016/j.aninu.2021.10.003>.
21. Parker, David B.; Casey, Kenneth D.; Waldrip, Heidi Maria; **Min, Byeng Ryel**; Woodbury, Bryan L.; Spiehs, Mindy; Campbell, Terra; Meyer, Beverly; Willis. **2021**. Temporal and Spatial Variability of Methane Emissions from Texas Open-Lot Beef Cattle Feedyard Pens. *Transactions of the ASABE Journal*. NRES-14672-2021. *Transactions of the ASABE*. 64(6): 1781-1794. (doi: 10.13031/trans.14672).
22. **Min, B. R.**, W. E. Pinchak, M. E. Hume and R. C. Anderson. **2021**. Effects of condensed tannins supplementation on animal performance, phylogenetic microbial changes and *in vitro* methane emissions in steers grazing winter wheat. *Animals*. 11: 2391: 1-18. <https://doi.org/10.3390/ani11082391>.
23. Rothrock, M. J., **B. R. Min**, L. Castleberry, H. Waldrip, D. Parker, D. Brauer, D. Pitta, and N. Indugu. **2021**. Antibiotic resistance, antimicrobial residues and bacterial community diversity in pasture-raised poultry, swine and beef cattle manures. *J. Anim. Sci.* DOI: 10.1093/jas/skab144 PMID: 33944927.
24. Gurung, N.K., K. Tuoho, F. W. Abrahamsen, and **B. R. Min**. **2021**. Meat goat diet supplementation with crude glycerin: rumen fermentation metabolism, blood chemistry profile, animal performance and carcass traits. *J. Anim. Physiol. Anim. Nutri.* 2021: 1-8.
25. Kafle, D., J. H. Lee, **B. Min**, and B. Kouakou. 2021. Carcass and meat quality of goats supplemented with tannin-rich peanut skin. *J. Agric. Food Res.* 5: 100159.

DOI:10.1016/j.jafr.2021.100159.

26. Waldrip, H. W., D. Parker, S. Miller, D. N. Miller, K. D. Casey, R. Todd, **B.R. Min**, B. Woodbury, and M. Spiehs. **2020**. Nitrous oxide from beef cattle manure: effects of temperature, water addition and manure properties on denitrification and nitrification. *Atmosphere*, 11, 1056; doi:10.3390/atmos11101056.
27. **Min**, B.R., S. Solaiman, H. M. Waldrip, D. Parker, R. W. Todd, and D. Brauer. **2020a**. Dietary mitigation of enteric methane emissions from ruminants: A review of plant tannins mitigation options. *Animal Nutrition*. 6: 231-246. <https://doi.org/10.1016/j.aninu.2020.05.002>.
28. Arzola-Alvarez, C., Y. Castillo-Castillo, R. C. Anderson, M. E. Hume, O. Ruiz-Barrera, **B. R. Min**, A. Arzola-Rubio, R. C. Beier, and J. Salinas-Chavira. **2020b**. Influence of pine bark tannin on bacterial pathogens growth and nitrogen compounds on changes in composted poultry litter. *Bra. J. Poultry Sci*. 22: 1-10. <https://dx.doi.org/10.1590/1806-9061-2019-1175>.
29. Reynolds, D., **B. R. Min**, N. Gurung, W. McElhenney, J. H. Lee, S. Solaiman, and O. Bolden-Tiller. **2020**. Influence of tannin-rich pine bark supplementation in the grain mixes for meat goats: growth performance, blood metabolites, and carcass characteristics. *Anim. Nutri. J*. 6:85-91. <https://doi.org/10.1016/j.aninu.2019.09.003>
30. Parker, D.B., Casey, K.D., Hales, K., Waldrip, H., Min, B.R., Cortus, E., Woodbury, B.L., Spiehs, M.J., Meyer, B.E., Willis, W.M. **2020**. Toward modeling of nitrous oxide emissions following precipitation, urine and feces deposition on beef cattle feedyard surfaces. *Transactions of the ASABE*. 63(5):1371-1384. (doi: 10.13031/trans.13847)@2020.
31. **Min, B. R.**, L. Castleberry, H. Allen, D. Parker, H. Waldrip, D. Brauer, and W. Willis. **2019a**. Associative effects of wet distiller's grains plus solubles and tannin-rich peanut skin supplementation on *in vitro* rumen fermentation, greenhouse gas emissions, and microbial changes. *J. Anim. Sci*. 97: 4668-4681. Doi:10.1093/jas/skz317.
32. **Min, B. R.**, N. Gurung, R. Shange, and S. Solaiman. **2019b**. Potential role of rumen microbiota in altering average daily gain and feed efficiency in meat goats fed simple and mixed pastures using bacterial tag-encoded FLX amplicon pyrosequencing. *J. Anim. Sci*. 97: 3523-3534.
33. **Min, B. R.**, K. McTear, H. H. Wang, M. Joakin, N. Gurung, F. Abrahamsen, S. Solaiman, J. S. Eun, J. H. Lee, L. A. Dietz, and W. E. Zeller. **2019c**. Influence of elevated protein and tannin-rich peanut skin supplementation on growth performance, blood metabolites, carcass traits and immune related gene expression of grazing meat goats. *J. Anim. Physiol. Anim. Nutri*. 2019:00: 1-13.
34. **Min, B.R.**, A. Frank, N. Gurung, J. H. Lee, J.W. Joo, and W. Pacheco. **2019d**. Peanut skin in diet alters average daily gain, ruminal and blood metabolites, and carcass traits associated with *Haemonchus contortus* infection. *Animal Nutrition*. 5: 278-285. DOI: 10.1016/J.Anim.2019.05.006.
35. Solaiman, S. and **B. R. Min**. **2019**. The effect of high level of dietary Zinc on growth performance, carcass characteristics, blood parameters, immune response and tissue minerals in growing Boer-cross goat kids. *Small Rum. Res*. 177: 167-174.
36. Parker, D.B., K. D. Casey, E. L. Cortus, **B. R. Min**, H. M. Waldrip, B. Woodbury, and M. Spiehs. **2019**. Empirical Model of Annual Nitrous Oxide Emissions from Open-Lot Beef Cattle Feedyard Pens (Ver. 2). *An ASABE*, 1-14. DOI: <https://doi.org/10.13031/aim.201900299>.
37. Parker, D. B., Kenneth D. Casey, Heidi M. Waldrip, **B. R. Min**, Bryan L. Woodbury, Mindy J. Spiehs, Will Willis. **2019**. Nitrous Oxide Emissions from an Open-Lot Beef Cattle Feedyard in Texas. *Transactions of the ASABE*. 62(5): 1173-1183. (doi: 10.13031/trans.13396).
38. **Min, B.R.** and S. Solaiman. **2018**. Comparative aspects of plant tannins on digestive physiology, nutrition and microbial community changes in sheep and goats: a review. *Journal of Animal Physiology and Animal Nutrition*. 2018:1-13.

39. Shipp, A., **B. R. Min**, N. Gurung, J. W. Hyung, and W. McElhenney. **2017**. The Effect of tannin-containing peanut skin supplementation on drug-resistant *Haemonchus contortus* control in meat goat. *Asian Journal of Advances in Agricultural Research*. 3(2): 1-9.
40. **Min, B.R.**, W.E. Pinchak, and D.P. Malinowski. **2017**. Interrelationships of winterwheat varieties on rumen fermentation rate, forage biomass production, and grain yield dynamics under the grazed out by steers. *Journal of Advances in Agriculture*. 7:1083-1096.
41. Christensen, R.G., J.S.Eun, S.Y. Yang, **B.R. Min**, and J.W. MacAdams. **2017**. *In vitro* effects of birdsfoot trefoil (*Lotus corniculatus* L.) pasture on ruminal fermentation, microbial population and methane production. *The professional Animal Scientist* 33: 451-460.
42. **Min, B.R.**, N Gurung, and F. Abrahamsen. **2017**. Alternative Methods for Managing Gastrointestinal Parasites and *Eimeria Spp.* in Small Ruminants. *Agri Res & Tech: Open Access J.* 6(4): 555695. DOI: [10.19080/ARTOAJ.2017.06.555695](https://doi.org/10.19080/ARTOAJ.2017.06.555695).
43. Lee, J. H., **B.R. Min**, and B. B. Lemma. **2017**. Quality characteristics of goat meat as influenced by condensed tannins-containing pine bark. *Small Ruminant Research*. 146: 28-32.
44. Yang, S.Y., R.W. Ningrat, J.S. Eun., and **B.R. Min**. **2016**. Effects of supplemental virgin coconut oil and condensed tannin extract from pine bark in lactation dairy diets on ruminal fermentation in a dual-flow continuous culture system. *Advances in Dairy Research*. 4:1-7.
45. Bowie, D., Kumi, A.S., **Min, B.R.**, Smith, R.C., Davis, R. J., Elliott, A. and N. Gurung. **2016**. Preliminary observations on effects of using different stocking rates of meat goats to control understory vegetation in longleaf pine stands. *Agroforest Sys.* 90: 747-761.
46. **Min, B.R.**, W. E. Pinchak, R.C. Anderson, and R. Puchala. **2016**. Bloat mitigation potential of plant tannins and yucca extracts based on in vitro ruminal fermentation and methane gas production from wheat forage. *International Journal of Research Studies in Agricultural Sciences (IJRSAS)* Volume 2 (1). PP 1-13 ISSN 2454-6224.
47. **Min, B.R.**, S. Solaiman, N. Gurung, and W. McElhenney. **2016**. The effect of forage-based meat goat production systems on animal performance, carcass traits and fatty acid composition of Kiko crossbred goats. *Animal Nutrition*, 1:1-11. Insight Medical Publishing Journal.
48. **Min, B.R.**, S. Solaiman, E. Taha, and J. Lee. **2016**. Effect of plant tannin-containing diet on fatty acid profile in meat goats. *Journal of Animal Nutrition*, 1: 1-7.
49. Wright C., D. Perkins, A. Dawod, **B. R. Min**, T.H. Terrill, J. E. Miller, and T. Vines. **2016**. The Effects of Phytochemical Tannin Containing Diets on Meat Goat Performance and Drug Resistant *Haemonchus contortus* Control. *International Journal of Veterinary Health Science & Research (IJVHSR)*. 4:104-109.
50. Stone, A.R., Gurung, N. K., Solaiman, S.G., **Min, B.R.**, Abdelrahim, G.M., Kumi1, A.S., and McElhenney, W.H. **2016**. Fatty acid composition of growing kiko x Spanish crossbred intact mail goats fed varying levels of peanut skins. *Prof. Agric. Workers J.* 3: 3-14.
51. **Min, B.R.**, D. Perkins, C. Wright, A. Dawod, B. R. Min, T. H. Terrill, J.-S. Eun, R. Shange, S. Y. Yang, and N. Gurung. 2015. Effects of feeding two different tannin-containing diets on ruminal fermentation profiles and microbial community changes in meat goats. *Agric. Food Anal. Bacteriol.* 5: 153-165.
52. Malinowski, D.P., W.E. Pinchak, **B.R. Min**, J.C. Rudd, and J. Baker. 2015. Phenolic compounds affect bloat potential of wheat forage. *Crop, Forage, and Turfgrass Management*. 11 1-8.
53. **Min, B.R.**, K. Hernandez, W.E. Pinchak, R.C. Anderson, J.E. Miller, and E. Valencia. 2015. Effects of plant tannin extracts supplementation on animal performance and gastrointestinal parasites infestation in steers grazing winter wheat. *Open J. Animal Science*, 5: 343-350. <http://dx.doi.org/10.4236/ojas>.
54. **Min, B.R.**, and S. Solaiman. 2015. Prediction of feed intake and its relationship with chemical composition of diets in goats consuming concentrate, bahaigrass pasture and mimosa browse. *Open J. of Animal Science*. 5: 283-293. www.scirp.org/Journal/PaperDownload.aspx?paperID=57813.

55. **Min, B.R.**, S. Solaiman, T. Terrill, A. Ramsay, and I. Mueller-Harvey. 2015a. The effects of tannins-containing ground pine bark diet upon nutrient digestion, nitrogen balance, and mineral retention in meat goats. *J. Anim. Sci. and Biotechnol.* 6:25 DOI: 10.1186/s40104-015-0020-5. URL: <http://www.jasbsci.com/content/6/1/25>
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CONFERENCE AND FIELD DAY PAPERS;

1. **Evaluating the Impact of Biochar Supplementation on Enteric Methane Gas Emissions in Boer Cross Spanish Goats.** **Hossam Ismael**, Santosh Chaudhary, Mariline Hilaire, Vivian Kanyi, Heba Abdo, and Byeng R. Min. **The 4th International Online Conference on Animals.** Part of the International Online Conference on Animals series 17–19 March 2026.
 1. Evaluating the Impact of Biochar Supplementation on Enteric Methane Gas Emissions in Boer Cross Spanish Goats. Hossam Ismael, Santosh Chaudhary, Mariline Hilaire, Vivian Kanyi, Heba Abdo, and Byeng R. Min. The 4th International Online Conference on Animals. Part of the International Online Conference on Animals series 17–19 March 2026.
 2. Evaluating the Impact of Biochar Supplementation on Enteric Methane Gas Emissions in Boer Cross Spanish Goats. Hossam Ismael, Santosh Chaudhary, Mariline Hilaire, Vivian Kanyi, Heba Abdo, and Byeng R. Min. The 4th International Online Conference on Animals. Part of the International Online Conference on Animals series 17–19 March 2026.
 3. Ismael, H., S. Chaudhary, M. Hilaire, V. Kanyi, H. Abdo, and **B. R. Min.** 2025. Evaluate the Diagnostic Accuracy of a Laser Methane Detector Against the GreenFeed for On-farm Measurements of Greenhouse Gas Emissions from Meat Goats. 2025 PAWC Farmers Conference.
 4. HILAIRE, M., B. Gines, W. E. Collier, H. Wang, S. Chaudhary, V. Kanyi, H. Abdo, H. Ismael, E. C. St. Preux, M. Boersma, and **B. R. Min.** 2025. MEAT GOAT METABOLOMIC SIGNATURES: A COMPARISON OF LOW AND HEAVY HAEMONCHUS CONTORTUS BURDENS UNDER DIETS OF SUNN HEMP (CROTALARIA JUNCIA L.) AND BERMUDAGRASS (CYNODON DACTYLON). 2025 PAWC farmers Conference.
 5. Vivian, K., **B. R. Min**, H. Mariline, H. Ismael, C. Santosh, and A. Heba. 2025. INFLUENCE OF COVER CROPS ON GROWTH PERFORMANCE, RUMEN FERMENTATION, AND CARCASS TRAITS OF GRAZING MEAT GOATS. PAWC Farmers Conference.
 6. Santosh, C., I. Min, E. Kim, D. Ha, C. Min, H. Mariline, I. Hossam, K. Vivian, H. Abdo, and **B. R. Min.** 2025. Preliminary Assessment of Electromagnetic and Radiofrequency Exposure on Honeybee Activity. PAWC Farmers Conference.
 7. **B.R. Min**, H. Mariline, I. Hossam, S. Chaudhary, V. Kanyi, H. Aado, and N. Gurung. 2025. Sunn Hemp: Harvest Management and Genotype Effects on Sunn Hemp (Crotalaria juncea L.) forage characteristics as Cover Crop and Its Nutritive Values. PAWC Farmers Conference.
 8. Mariline Hilaire, **B. R. Min**, H. Ismael, R. Chen, N. Gurung, S. Solaiman, S. Chaudhary, H. Abdo, and F. Abrahamsen. 2024. Effects of replacing steam-flaked corn with steam-flaked wheat grains in beef finishing diets on rumen fermentation profiles and greenhouse gas emissions at the laboratory study. 2024 American Society of Animal Science (ASAS)-CSAS-WSASAS Annual Meeting. #1792935.
 9. Mariline Hilaire, **B. R. Min**, and H. H. Wang. DEVELOP A NEW DNA-BASED INTERNAL PARASITES DETECTION METHOD FOR SHEEP AND GOATS. 2024.. Association of 1890 Research Directors, Inc. (ARD). 21st Biennial Research Symposium. April 7-9, 2024, Nashville, Tennessee.
 10. Mariline Hilaire, **B. R. Min**, F. Abrahamsen, and N. Gurung RED SEAWEED COULD BE THE ANSWER TO REDUCING METHANE EMISSIONS FROM COWS:

LABORATORY CONDITIONS, 2023 81st Professional Agricultural Workers Conference for the 2023 Student Research Competition organized by Gamma Sigma Delta, The Honor Society of Agriculture.

11. Caitlyn Weems, Charles Moore, Madison Jones, Mariline Hilaire, Byeng Ryel Min, and Santosh Chaudhary, Determine the Prevalence of *Haemonchus Contortus* Eggs in Meat Goats, College of Agriculture and Environment and Sciences, AgDiscovery and Agri-TREK Program, June 2024 Tuskegee University, Tuskegee, AL 36088.
12. Effects of incorporating malted barley in a feedlot ration on intake, performance, and enteric methane emission. 2022. Beck, M. R., J. Proctor, Z. Kasuske, J. Smith, V. Gouvea, C. Lockard, **B. R. Min**, and D. Brauer. American Society of Animal Science, #307, June 30, 2022, Oklahoma City, OK.
13. The potential role of two red seaweeds that promote anti-methanogenic activity and rumen fermentation profiles under laboratory conditions. **B. R. Min**, G. Genovese, L. Castleberry, C. Lockard, H. M. Waldrip, D. B. Parker, D. N. Miller, A. Akbay, M. Morabito, A. Manghisi, D. Spagnuolo, and D. Brauer. 2021. American Society of Animal Science, July 15-17. Kentucky International Convention Center (KICC), L005/009.
14. Occurrence of antibiotic residues and antimicrobial resistance genes associated with microbiome diversity in pasture-raised broilers, layers, swine, and beef cattle manures. **B. R. Min**, L. Castleberry, M. Rothrock, L. L. Rutherford, D. Parker, H. Waldrip, D. Brauer, D. W. Pitt, and N. Indugu. 2020. American Society of Animal Science, July 19-23. PSXI-23.
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21. The effect of elevated protein and condensed tannin-rich peanut skin supplementations on animal performance, blood metabolites, and carcass traits in meat goats grazing winter forages. 2018. K. McTear, B. R. Min, N. Gurung, S. Solaiman, J.H. Lee, and W. McElhenney. September 15 to 18, 2018. National Goat Conference, Montgomery, AL.
22. Relationship between condensed tannin-containing pine bark diet, animal performance, blood metabolites, and carcass traits in buck and wether goats. 2018. D. Reynolds, Byeng Ryel Min, Nar Gurung, and Olga Bolden Tiller. September 15 to 18, 2018. National Goat Conference, Montgomery, AL.
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