

Andrew W Brown, Ph.D.

Scientist II
Office of Energetics
University of Alabama at Birmingham
(205) 975-9131

508 Webb Building
1720 2nd Ave S
Birmingham, AL 35294-0022
awbrown@uab.edu

For study links and more information, please go to:
www.andrewbrownphd.com

EDUCATION

- University of Alabama at Birmingham**
Postdoc Office of Energetics and Nutrition Obesity Research Center **May 31, 2014**
Mentor: David B. Allison, Ph.D.
- University of Nebraska-Lincoln – Lincoln, NE**
Ph.D. **Dissertation Title:** Mechanisms of decreased cholesterol absorption mediated by phytosterols in the intestinal lumen. **May 6, 2011**
Major: Nutrition; **Minor:** Statistics
Interdepartmental Nutrition Program
Mentor: Timothy P. Carr, Ph.D.
- Iowa State University – Ames, IA**
M.S. **Thesis Title:** Selected measures of health in women fed conjugated linoleic acid-enriched products from organic, pasture-fed cattle. **August 9, 2008**
Major: Biochemistry; **Minor:** Statistics
Department: Biochemistry, Biophysics, and Molecular Biology
Mentor: Donald C. Beitz, Ph.D.
- Iowa State University – Ames, IA**
B.S. **Major:** Biochemistry **May 5, 2007**
Department: Biochemistry, Biophysics, and Molecular Biology

Other Notable Training

- Dannon Institute** – Early Career Nutrition Leadership Institute 2015 Jun
- Statistical Horizons** – Meta-Analysis: Concepts and Applications 2013 Jul
- Johns Hopkins Graduate Summer Institute of Epidemiology and Biostatistics** 2012 Jun
- UAB Office of Postdoctoral Education** – Grant Writing Course 2012 Spring
- UAB Office of Postdoctoral Education** – Lab Management Course 2011 Fall
- UNL** – Preparing Future Faculty 2010
- NIH Office of Dietary Supplements** – Dietary Supplements Research Practicum 2009 Jun

WORK EXPERIENCE

Positions Held

Position	Group	Year(s)
Scientist II	Office of Energetics and Nutrition Obesity Research Center – University of Alabama at Birmingham	Sep 2016 – Present
Scientist	Office of Energetics and Nutrition Obesity Research Center – University of Alabama at Birmingham	Jun 2014 – Aug 2016
Postdoctoral Trainee	Nutrition Obesity Research Center – University of Alabama at Birmingham	Jun 2011 – May 2014
Graduate Research Assistant	Interdepartmental Nutrition Program – University of Nebraska-Lincoln	Jan 2008 – May 2011
Graduate Teaching Assistant	Department of Statistics – University of Nebraska-Lincoln	Aug 2010 – Dec 2010
Graduate Research Assistant	Nutritional Physiology Group – Iowa State University	Jul 2005 – Dec 2007
Graduate Teaching Assistant	Department of Biochemistry, Biophysics, and Molecular Biology – Iowa State University	Aug 2007 – Dec 2007
Undergraduate Research Assistant	Nutritional Physiology Group – Iowa State University	Sep 2003 – Jul 2005

Consulting

Entity	Year(s)
CE Outcomes	2013
Farmland Foods	2011

RESEARCH

Publications

- 1. Analysis of the time and workers needed to conduct systematic reviews of medical interventions using data from the PROSPERO registry.** Borah R, *Brown AW*, Capers PL, Kaiser KA. *BMJ Open*. 2017 Feb 27;7(2):e012545. [Original Research; PMC5337708]
- 2. Common Scientific and Statistical Errors in Obesity Research.** George BJ, Beasley M, *Brown AW*, Dawson JA, Rositsa D, Divers J, Goldsby T, Heo M, Kaiser KA, Keith S, Kim MY, Li P, Mehta T, Oakes JM, Skinner A, Stuart E, Allison DB. *Obesity (Silver Spring)*. 2016 Apr;24(4):781-90 [Invited Narrative Review; PMC4817356]

3. **Reproducibility: A tragedy of errors.** Allison DB, *Brown AW*, George BJ, Kaiser KA. *Nature*. 2016 Feb 4;530(7588):27-9. [Invited Commentary; PMC4831566]
4. **High Intensity Interval- vs Moderate Intensity- Training for Improving Cardiometabolic Health in Overweight or Obese Males: A Randomized Controlled Trial.** Fisher G, *Brown AW*, Bohan Brown MM, Alcorn A, Noles C, Winwood L, Resuehr H, George B, Jeansonne MM, Allison DB. *PLoS One*. 2015 Oct 21;10(10):e0138853. doi: 10.1371/journal.pone.0138853. eCollection 2015. [Original Research; PMC4619258]
5. **Taurine and vitamin E supplementation have minimal effects on body composition, hepatic lipids, and blood hormone and metabolite concentrations in healthy Sprague Dawley rats.** Allen PS, *Brown AW*, Bohan Brown MM, Hsu WH, Beitz DC. *Nutrition and Dietary Supplements* [Original Research; PMC4706234]
6. **The importance of prediction model validation and assessment in obesity and nutrition research.** Ivanescu AE, Li P, George B, *Brown AW*, Keith SW, Raju D, Allison DB. *Int J Obes (Lond)*. 2015 Oct 9 [Invited Narrative Review; PMC4826636]
7. **Best (but often forgotten) practices: designing, analyzing, and reporting cluster randomized controlled trials.** *Brown AW*, Li P, Bohan Brown MM, Kaiser KA, Keith SW, Oakes JM, Allison DB. *Am J Clin Nutr*. 2015 May 27 [Invited Narrative Review; PMC4515862]
8. **Double sampling with multiple imputation to answer large sample meta-research questions: Introduction and illustration by evaluating adherence to two simple CONSORT guidelines.** Capers PL, *Brown AW*, Dawson JA, Allison DB. *Front Nutr*. 2015 Mar 9;2:6 [Original Research; PMC4428480]
9. **Energy Balance Measurement: When Something is NOT Better than Nothing.** Dhurandhar NV, Schoeller D, *Brown AW*, Heymsfield SB, Thomas D, Sorensen TIA, Speakman JR, Jeansonne M, Allison DB. *Int J Obes (Lond)*. 2014 Nov 13. [Critical Review; PMC4430460]
10. **Unscientific Beliefs about Scientific Topics in Nutrition.** *Brown AW*, Ioannidis JPA, Cope MB, Bier DM, Allison DB. *Adv Nutr* September 2014 5(5): 563-565; doi:10.3945/an.114.006577 [Invited Proceedings; PMC4188234]
11. **Using crowdsourcing to evaluate published scientific literature: methods and example.** *Brown AW*, Allison DB. *PLoS One*. 2014 Jul 2;9(7):e100647 [Original Research; PMC4079692]
12. **Increased fruit and vegetable intake has no discernible effect on weight loss: a systematic review and meta-analysis.** Kaiser KA, *Brown AW*, Bohan Brown MM, Shikany JM, Mattes RD, Allison DB. *Am J Clin Nutr*. 2014 Jun 25;100(2):567-576 [Systematic Review; PMC4095660]
13. **Weighing the Evidence of Common Beliefs in Obesity Research.** Casazza K, *Brown AW*, Astrup A, Bertz F, Baum C, Bohan Brown M, Dawson J, Durant N, Dutton G, Fields DA, Fontaine KR, Levitsky D, Mehta T, Menachemi N, Newby P, Pate R, Raynor H, Rolls BJ, Sen B, Smith DL Jr, Thomas D, Wansink B, Allison DB. *Crit Rev Food Sci Nutr*. 2014 Jun 20:0 [Critical Review; PMC4272668]
14. **Belief beyond the evidence: using the proposed effect of breakfast on obesity to show 2 practices that distort scientific evidence.** *Brown AW*, Bohan Brown MM, Allison DB. *Am J Clin*

Nutr. 2013 Nov;98(5):1298-308. doi: 10.3945/ajcn.113.064410 [Original Research; PMC3798081]

15. Unintended consequences of obesity-targeted health policy. Brown AW, Allison DB. *Virtual Mentor.* 2013 Apr 1;15(4):339-46. doi: 10.1001/virtualmentor.2013.15.4.pfor2-1304 [Invited Critical Review; NIHPA N/A]

16. Myths, presumptions, and facts about obesity. Casazza K, Fontaine KR, Astrup A, Birch LL, Brown AW, Bohan Brown MM, Durant N, Dutton G, Foster EM, Heymsfield SB, McIver K, Mehta T, Menachemi N, Newby PK, Pate R, Rolls BJ, Sen B, Smith DL Jr, Thomas DM, Allison DB. *N Engl J Med.* 2013 Jan 31;368(5):446-54. doi: 10.1056/NEJMSa1208051 [Critical Review; PMC3606061]

17. Diet-induced alterations of host cholesterol metabolism are likely to affect the gut microbiota composition in hamsters. Martinez I, Perdicaro DJ, Brown AW, Hammons S, Carden TJ, Carr TP, Eskridge KM, Walter J. *Appl Environ Microbiol.* 2013 Jan;79(2):516-24. doi: 10.1128/AEM.03046-12. Epub 2012 Nov 2 [Original Research; PMC3553751]

18. Short-term consumption of sucralose, a nonnutritive sweetener, is similar to water with regard to select markers of hunger signaling and short-term glucose homeostasis in women. Brown AW, Bohan Brown MM, Onken KL, Beitz DC. *Nutr Res.* 2011 Dec;31(12):882-8. doi: 10.1016/j.nutres.2011.10.004 [Original Research; NIHPA N/A]

19. Diets high in conjugated linoleic acid from pasture-fed cattle did not alter markers of health in young women. Brown AW, Trenkle AH, Beitz DC. *Nutr Res.* 2011 Jan;31(1):33-41. doi: 10.1016/j.nutres.2010.12.003 [Original Research; NIHPA N/A]

20. Phytosterol ester constituents affect micellar cholesterol solubility in model bile. Brown AW, Hang J, Dussault PH, Carr TP. *Lipids.* 2010 Sep;45(9):855-62. doi: 10.1007/s11745-010-3456-6 [Original Research; NIHPA N/A]

21. Plant sterol and stanol substrate specificity of pancreatic cholesterol esterase. Brown AW, Hang J, Dussault PH, Carr TP. *J Nutr Biochem.* 2010 Aug;21(8):736-40. doi: 10.1016/j.jnutbio.2009.04.008. Epub 2009 Jul 16 [Original Research; NIHPA N/A]

22. Cholesterol-lowering phytosterols: factors affecting their use and efficacy. Carr TP, Ash MM, Brown AW. *Nutrition and Dietary Supplements.* 2010 July ; 2010(2):59-72 [Invited Narrative Review; NIHPA N/A]

23. Endocannabinoids, metabolic regulation, and the role of diet. Carr TP, Jesch ED, Brown AW. *Nutr Res.* 2008 Oct;28(10):641-50. doi: 10.1016/j.nutres.2008.08.003 [Invited Narrative Review; NIHPA N/A]

Book Chapters

24. Critical Evaluation of Nutrition Research Brown AW, Bohan Brown MM. In book: *Nutrition in Lifestyle Medicine*, Publisher: Springer International Publishing, Editor: James M. Rippe, pp.103-116 [Invited Chapter]

25. HUMAN NUTRITION | Nutraceuticals. Brown AW. In book: *Encyclopedia of Meat Sciences*

(Second Edition), Publisher: Academic Press, Editors: Michael Dikeman, Carrick Devine, pp.130-134 [Invited Chapter]

Letters, Editorials, and Reports

26. Addendum: Hypercaloric diets with high meal frequency, but not increased meal size, increase intrahepatic triglycerides: A randomized controlled trial. Serlie MJ, ter Horst KW, *Brown AW*. *Hepatology*. 2016 Mar 31. [Letter]

27. We agree that self-reported energy intake should not be used as a basis for conclusions about energy intake in scientific research. Dhurandhar NV, *Brown AW*, Thomas D, Allison DB. *J Nutr*. 2016 May;146(5):1141-2. [Letter]

28. Unsubstantiated Conclusions from Improper Statistical Design and Analysis of a Randomized Controlled Trial. George BJ, Goldsby TU, *Brown AW*, Li P, Allison DB. *International Journal of Yoga*. 2016;9(1):87-8. [Letter]

29. Errors in statistical analysis and questionable randomization lead to unreliable conclusions. George BJ, *Brown AW*, Allison DB. *Journal of Paramedical Sciences*. 2015 Vol.6, No.3 [Letter]

30. Goals in Nutrition Science 2015-2020. Allison DB, Bassaganya-Riera J, Burlingame B, *Brown AW*, Le Coutre J, Dickson SL, Van Eden W, Garssen J, Hontecillas R, Khoo CSH, Knorr D, Kussmann M, Magistretti PJ, Mehta T, Meule A, Rychlik M, Vögele C. *Front. Nutr.*, 08 September 2015 [Invited Editorial]

31. Comment on “Intervention effects of a school-based health promotion programme on obesity related behavioural outcomes.” Li P, *Brown AW*, Oakes JM, Allison DB. *Journal of Obesity*, vol. 2015, Article ID 708181, 2 pages, 2015. [Letter]

32. Response to ‘Energy balance measurement: when something is not better than nothing.’ Dhurandhar NV, Schoeller D, *Brown AW*, Heymsfield SB, Thomas D, Sorensen TIA, Speakman JR, Jeansonne M, Allison DB. *Int J Obes (Lond)*. 2015 Apr 30 [Invited Letter]

33. Comment on “School-Based Obesity Prevention Intervention in Chilean Children: Effective in Controlling, but not Reducing Obesity.” Li P, *Brown AW*, Oakes JM, Allison DB. *J Obes*. 2015;2015:183528 [Letter]

34. Concerning Sichieri R, Cunha DB: Obes Facts 2014;7:221-232. The Assertion that Controlling for Baseline (Pre-Randomization) Covariates in Randomized Controlled Trials Leads to Bias Is False. Li P, *Brown AW*, Dawson JA, Kaiser KA, Bohan Brown MM, Keith SW, Oakes JM, Allison DB. *Obes Facts* 2015;8:127-129 [Letter]

35. Exceptional Data in Paper on “The effect of meridian massage on BM, BMI, WC and HC in simple obesity patients: a randomized controlled trial.” Thomas DM, *Brown AW*, Dawson JA, Li P, Heymsfield SB, Allison DB. *World Journal of Acupuncture-Moxibustion*. 2015, (01) 66-67 [Letter]

36. Communication of randomized, controlled trial results must match the study focus. *Brown AW*, Sievenpiper JL, Kyle TK, Kaiser KA. *J Nutr*. 2015 145: 5 1027-1029 [Letter]

- 37. Order of Magnitude Mis-estimation of Weight Effects of Children's Meal Policy Proposals.** *Brown AW*, Hall KD, Thomas D, Dhurandhar NV, Heymsfield SB, Allison DB. *Childhood Obesity*. December 2014, 10(6): 542-545. doi:10.1089/chi.2014.0081 [Letter]
- 38. Linear extrapolation results in erroneous overestimation of plausible stressor-related yearly weight changes.** Bohan Brown MM, *Brown AW*, Allison DB. *Biol Psychiatry*. 2015 Aug 15;78(4):e10-1 [Letter]
- 39. An Unjustified Conclusion from Self-Report-Based Estimates of Energy Intake.** Levitsky DA, *Brown AW*, Hansen BC, Atkinson RL, Byrne N, Cheskin LJ, Allison DB. *Am J Med* 2014;127(12):e33 [Letter]
- 40. Reply to RA Mekary and E Giovannucci.** *Brown AW*, Bohan Brown MM, Allison DB. *Am J Clin Nutr*. 2014 Jan;99(1):213. doi: 10.3945/ajcn.113.077354 [Invited Letter]
- 41. Does host cholesterol metabolism impact the gut microbiota and why does it matter?** Martinez I, *Brown AW*, Walter J. *Future Microbiol*. 2013 May;8(5):571-3. doi: 10.2217/fmb.13.24 [Invited Editorial]
- 42. Nutritional epidemiology in practice: learning from data or promulgating beliefs?** Bohan Brown MM, *Brown AW*, Allison DB. *Am J Clin Nutr*. 2013 Jan;97(1):5-6. doi: 10.3945/ajcn.112.052472. Epub 2012 Dec 5 [Invited Editorial]
- 43. Lipid and NDF analysis of ethanol byproduct feedstuffs.** Bremer VR, Buckner VD, *Brown AW*, Carr TP, Diedrichsen RM, Erickson GE, Klopfenstein TJ. *Nebraska Beef Cattle Report*. 2010;MP93:83-86 [Report]

Works Accepted or Submitted

- 44. Is there a publication bias in science? And, if so, what do we know about how it is and can be addressed?** *Brown AW*, Mehta TS, Allison DB. In book: *Oxford Handbook on the Science of Science Communication* [Invited Chapter: ACCEPTED]
- 45. Randomization to Randomization Probability: Estimating Treatment Effects Under Actual Conditions of Use.** George BJ, Li P, Lieberman HR, Pavela G, *Brown AW*, Fontaine KR, Jeansonne MM, Dutton GR, Idigo AJ, Parman MA, Rubin DB, Allison DB. *Psychological Methods* [Original Research: ACCEPTED]

Invited Extramural Presentations

- 1. Keynote – Dishing Up Data: Making Science More Digestible for the Public.** *Sports, Cardiovascular and Wellness Nutrition (SCAN) Symposium 2017*. Charlotte, NC, USA; 2017-04-02.
- 2. Rigor and Reproducibility in Nutrition and Obesity Research.** *University of Michigan*. Ann Arbor, MI, USA; 2017-03-16.
- 3. From microworkers to sampling techniques – challenges and benefits of alternative literature screening methods.** *Obesity Week 2016*. New Orleans, LA, USA; 2016-11-03.

- 4. Reproducibility: A Tragedy of Errors** *International Society for Medical Publication Professionals*. Webinar; 2016-10-26.
- 5. Conflicting, conflicted, and incomplete narratives in nutrition and obesity research.** *2016 Building Healthy Lifestyles Conference – Nutrition: Fads, Facts & Fallacies*. Tempe, AZ; 2016-03-18.
- 6. Myths, Presumptions, and Facts about Obesity: Where might they come from and what we can do?** *National Press Foundation – Obesity’s Toll: Get the Skinny on Fat.* Webinar; 2016-02-24.
- 7. Conflicting, conflicted, and incomplete narratives in nutrition and obesity research.** *Birmingham District Dietetic Association*. Birmingham, AL; 2016-02-18.
- 8. Conflicting, conflicted, and incomplete narratives in nutrition and obesity research.** *Nutrition File Seminar 2016 – Nutrition Fact or Fiction: What is the Evidence?*. Calgary, AB, Canada; 2016-02-03.
- 9. Conflicting, conflicted, and incomplete narratives in nutrition and obesity research.** *Nutrition File Seminar 2016 – Nutrition Fact or Fiction: What is the Evidence?*. Edmonton, AB, Canada; 2016-02-02.
- 10. Hot Off the Presses: Evaluating the Evidence Behind Today’s Nutrition Media Headlines.** *Academy of Nutrition and Dietetics*. Webinar; 2015-08-28.
- 11. Lost in Translation: Science as a Second Language** *DC Metro Academy of Nutrition and Dietetics*. Washington, DC, USA; 2015-04-10.
- 12. In the Eye of the Beholder: Critical Evaluation of Nutrition Research.** *ConAgra Food Science Institute Nutri-bites Webinars*. Webinar; 2015-03-12.
- 13. Distortion of Nutrition Research: Perpetuating Beliefs Beyond the Scientific Evidence.** *Academy of Nutrition and Dietetics Board of Directors Retreat*. Portland, OR, USA; 2014-07-23.
- 14. Lost in Translation: Science as a Second Language – Perspectives of a ‘native speaker’.** *International Food Information Council*. Washington, DC, USA; 2014-05-13.
- 15. Distortion of nutrition research: Reporting practices that may perpetuate beliefs beyond the scientific evidence.** *ASN Scientific Sessions & Annual Meeting at Experimental Biology 2014*. San Diego, CA, USA; 2014-04-27.
- 16. Tips for High-Fidelity Science Reporting.** *National Press Foundation*. Webinar; 2014-03-18.
- 17. Meal Frequency, Eating Patterns, and Weight.** *Eating Patterns and Disease: From Molecular and Cellular Mechanisms to Interventions*. Webinar; 2014-02-18.
- 18. Recent initiatives to improve research reporting fidelity.** *ILSI Annual Meeting*. Southampton, Bermuda; 2014-01-20.
- 19. Sound advice or biased reporting? Breakfast as a strategy to reduce or prevent obesity or weight gain.** *57th Annual Alabama Public Health Association Education Conference*.

Birmingham, AL, USA; 2013-04-04.

20. Myths, Presumptions, and Facts about Obesity. *AHA EPI/NPAM: Hot Off the Press.* New Orleans, LA; 2013-03-21.

21. Phytosterols Decrease Cholesterol Absorption by Molecular Interactions in the Intestinal Lumen. *103rd American Oil Chemist Society Meeting.* Long Beach, CA, USA; 2012-05-01.

22. Nutritional Aspects of Fats and Oils. *Danisco Margarine and Shortening Course.* New Century, KS, USA; 2011-10-28.

23. Mechanisms of decreased cholesterol absorption mediated by phytosterols. . University of Alabama at Birmingham, Birmingham, AL, USA; 2010-11-18.

Extramural Meeting Abstracts

* = Presenter; ° = Oral presentation

1. Evaluation of rapid crowdsourcing methods to identify obesity-related studies. Capers P, *Brown AW*, Thornton J, Kaiser KA, Goldsby T, Allison DB. *Obesity Week.* 2016.

2. Simple text-mining methodology to detect comparative p-hacking is sensitive to text searching variations. Kroeger CM, *Brown AW*, Allison DB. *Obesity Week.* 2016.

3. High Intensity Interval- Vs Moderate Intensity- Training for Improving Cardiometabolic Health In Overweight or Obese Males: A Randomized Controlled Trial. Fisher G, *Brown AW*, Bohan Brown MM, Alcorn A, Noles CD, Winwood L, Resuehr H, George B, Jeansonne MM, Allison DB. *Med Sci Sports Exerc.* 2016 May;48(5 Suppl 1):641-2.

4. Method for Calculating Point Estimates and Standard Errors for Meta-Analysis from Reported Point Estimates, 95% Confidence Intervals, and P-Values. *Brown AW**, Dawson JA. *FASEB Journal.* 2016;30:1154.32.

5. The Effect of Yogurt on Human Body Weight: A Systematic Review and Meta-Analysis of Randomized Experiments. Kaiser KA, Jeansonne MM, *Brown AW**. *FASEB Journal.* 2016;30:905.6.

6. The body recognizes liquid calories: Systematic review and meta-analysis of the effect of solid versus liquid preloads on subsequent energy intake. Greenberg D, Rahn M, *Brown AW*, George BJ, Chung A, Allison DB. *Obesity Week.* 2015.

7. Double Sampling with Multiple Imputation to Answer Large Sample Meta-Research Questions: Introduction and Illustration by Evaluating Adherence to Two Simple CONSORT Guidelines. Capers PL, *Brown AW*, Dawson JA, Allison DB. *FASEB Journal.* 2015;29:735.1.

8. Quick Service Restaurant (Fast) Food and Obesity: A systematic review of human studies. Idigo AJ, *Brown AW*, Jeansonne MM, Kell KP, Allison DB. *FASEB Journal.* 2015;29:600.2.

9. Evidence of p-value fiddling using a rapid, high-volume, systematic method. Kroeger CM, *Brown*

AW, Allison DB. *Advances and Controversies in Clinical Nutrition*. 2014.

10. How We Talk About People with Conditions: Trends Over Time Using Google Ngrams. *Brown AW**. *Obesity Week*. 2014.

11. High Intensity vs Moderate Intensity Training to maximize the benefits of exercise for improving cardiometabolic health in overweight adolescent males: Preliminary results from the HIIT MAX randomized controlled trial. Fisher G, *Brown AW*, Bohan Brown MM, Alcorn Amy, Noles C, Winwood L, Reseuhr H, Allison DB. *Obesity Week*. 2014.

12. Using crowdsourcing to evaluate published scientific literature: Methods and example. *Brown AW**, Allison DB. *91st Annual Meeting of the Alabama Academy of Science, Auburn University, 2014-03-13*

13. Are studies that agree with popular opinion cited more? Evaluating nutrition-obesity research using crowdsourcing. *Brown AW**, Allison DB. *Obesity Week*. 2013.

14. Increased fruit and vegetable intake has no discernible effect on weight loss: a systematic review and meta-analysis. Kaiser KA, *Brown AW**, Bohan Brown MM, Shikany JM, Mattes RD, Allison DB. *Obesity Week*. 2013.

15. Treatment with taurine and vitamin E did not reverse fatty liver more than a chow diet in rats. Allen PS, *Brown AW**, Bohan Brown MM, Beitz DC. *Evaluating Bioactive Food Components in Obesity and Cancer Prevention*. 2013.

16. Investigating nutraceutical and pharmaceutical agents to prevent fatty liver in rats. Allen PS, *Brown AW*, Bohan Brown MM, Beitz DC. *Evaluating Bioactive Food Components in Obesity and Cancer Prevention*. 2013.

17. Sound advice or biased reporting? Breakfast as a strategy to reduce or prevent obesity or weight gain. *Brown AW**, Bohan Brown MM, Allison DB. *FASEB Journal*. 2013;27:124.3.

18. Hydrolysis of phytosterol esters in the intestine is required for their cholesterol lowering effects. *Brown AW**, Carden TJ, Hang J, Dussault PH, Carr TP. *FASEB Journal*. 2011;25:587.7.

19. Dietary phytosterol esters must be hydrolyzed for optimal reduction in cholesterol absorption. Carden TJ, *Brown AW*, Mielke M, Hang J, Dussault PH, Lee BH, Schlegel VL, Carr TP. *FASEB Journal*. 2011;25:582.11.

20. Phytosterols and fatty acids, but not phytosterol esters, affect cholesterol micellarization in vitro. *Brown AW**, Hang J, Dussault PH, Carr TP. *FASEB Journal*. 2010;24:541.19.

21. Method for lipid and NDF analysis of ethanol byproduct feedstuffs. Bremer VR, Buckner CD, *Brown AW*, Carr TP, Diedrichsen RM, Erickson GE, Klopfenstein TJ. *Journal of Animal Science*. 2010;88:E-Suppl.3,263.

22. Phytosterol ester substrate specificity of pancreatic cholesterol esterase. *Brown AW**, Hang J, Dussault PH, Carr TP. *FASEB Journal*. 2009;23:722.15.

23. Effects of diets naturally high or low in conjugated linoleic acid on measures of health in women. *Brown AW**, Trenkle A, Beitz DC. *FASEB Journal*. 2009;23:334.6.

24. Effects of Splenda® Brand sweetener on plasma hormone and metabolite concentrations. *Brown AW**, Bohan MM, Onken KL, Beitz DC. *FASEB Journal*. 2007;21:832.11.

25. Effects of TNF α as a simulated stressor on adipose and liver tissues from rats fed varying diets. *Brown AW**, Bohan MM, Mehyar N, Trenkle A, Beitz DC. *FASEB Journal*. 2006;20:109.6.

Intramural Presentations (Not exhaustive)

1. Procedural Elements: Trial Registration, Reporting Guidelines. *Second Short Course on Strengthening Causal Inference in Behavioral Obesity Research..* University of Alabama at Birmingham; 2016-07-26.

2. Limits II – Empirical: Evidence & Case Studies of Confirmation and Non-Confirmation of Observational Study-Generated Hypotheses. *Second Short Course on Strengthening Causal Inference in Behavioral Obesity Research..* University of Alabama at Birmingham; 2016-07-25.

3. Introductory Remarks: A Comedy of Errors. *The Mathematical Sciences in Obesity: NIDDK Short Course.* University of Alabama at Birmingham; 2016-06-13.

4. Limits II – Empirical: Evidence & Cases Studies of Confirmation and Non-Confirmation of Observational Study-Generated Hypotheses. *First Short Course on Strengthening Causal Inference in Behavioral Obesity Research..* University of Alabama at Birmingham; 2015-07-20.

5. Introductory Remarks: A Comedy of Errors. *The Mathematical Sciences in Obesity: NIDDK Short Course.* University of Alabama at Birmingham; 2015-06-22.

6. Improving the accuracy and specificity of estimates using cross-method comparisons, such as Double Sampling with Multiple Imputation. *Mathematics Colloquium: Open Problems in Obesity.* UAB, Birmingham, AL, USA; 2015-02-27.

7. Does Frequency or Timing of Eating Influence Childhood Obesity? *Intensive Course in Nutrition for Infants, Children, and Adolescents.* Department of Pediatrics and Nutrition Sciences, UAB, Birmingham, AL, USA; 2015-02-24.

8. The Science of Nutrition Science: Beliefs, evidence, and communication. *UAB Chapter of Sigma Xi Seminar Series.* Birmingham, AL, USA; 2014-11-13.

9. Using crowdsourcing to evaluate published scientific literature: Methods and example. *Postdoctoral Research Day.* Birmingham, AL, USA; 2014-02-17.

10. Are studies that agree with popular opinion cited more? Evaluating Nutrition Obesity Research Using Crowdsourcing. *NORC Trainee/Fellows Annual Conference.* Birmingham, AL, USA; 2013-08-21.

11. Sound advice or biased reporting? Breakfast as a strategy to reduce or prevent obesity or weight gain. *Postdoctoral Research Day.* Birmingham, AL, USA; 2013-02-18.

12. Breakfast and obesity: Another example of White Hat Bias? *NORC Trainee/Fellows Annual Conference.* Birmingham, AL, USA; 2012-08-29.

Intramural Abstracts (Not exhaustive)

* = Presenter; ° = Oral presentation

- 1. Quick Service Restaurant (Fast) Food and Obesity: A systematic review of human studies** *Brown AW**, Idigo AJ, Jeansonne MM, Kell KP, Allison DB. *UAB Public Health Research and Practice Day 2015*.
- 2. Quantification of the Mediterranean Diet** Antoine LH, *Brown AW*, Allison DB. *UAB Public Health Research and Practice Day 2015*.
- 3. So you think you want to do a systematic review? Lessons learned from the PROSPERO registry.** Borah R, *Brown AW*, Capers PL, Kaiser KA. *UAB Public Health Research and Practice Day 2015*.
- 4. How We Talk About People with Conditions: Trends Over Time Using Google Ngrams.** *Brown AW**. *UAB Diabetes Research Day*
- 5. How We Talk About People with Conditions: Trends Over Time Using Google Ngrams.** *Brown AW**. *UAB Public Health Research Day 2014*.
- 6. Sound advice or biased reporting? Breakfast as a strategy to reduce or prevent obesity or weight gain.** *Brown AW**, Bohan Brown MM, Allison DB. *UAB Public Health Research Day 2013*.

HONORS AND AWARDS

Name	Awarding Group	Date
Best Presentation – Faculty/Staff category	University of Alabama at Birmingham New Energetic Ideas for the New Year – 2016	2016 Jan
Creativity is a Decision Award	University of Alabama at Birmingham	2015 Aug
Dannon Institute Nutrition Leadership Institute	Dannon Institute	2015 Jun
Most Creative – Faculty/Staff category	University of Alabama at Birmingham New Energetic Ideas Round II	2014 Dec
Best Paper Award	The Science Unbound Foundation	2014 Aug
1st Place Oral Presentation	University of Alabama at Birmingham Postdoc Research Day	2014 Feb
1st Place: Nutritional Epidemiology Postdoc Poster Competition	American Society for Nutrition Nutritional Epidemiology Research Interest Section	2013 Apr
3rd Place: Invited Poster Session	Alabama Public Health Association	2013 Apr

1st Place Poster: Postdoc Division	University of Alabama at Birmingham Public Health Research Day	2013 Apr
2nd Place Oral Presentation	University of Alabama at Birmingham Postdoc Research Day	2013 Feb
Back of the Envelope Award	University of Alabama at Birmingham	2012 Dec
Creativity is a Decision Award	University of Alabama at Birmingham	2012 Aug
Honorable Mention: Folsom Distinguished Doctoral Dissertation Award	University of Nebraska-Lincoln	2012 Feb
David Kritchevsky Graduate Student Award	Nutrition Research	2011 Apr
Preparing Future Faculty Fellow	University of Nebraska-Lincoln	2010
Widaman Trust Distinguished Graduate Assistant Award	University of Nebraska-Lincoln	2009-2010
Outstanding Graduate Student Poster	University of Nebraska-Lincoln	2009 Apr
Othmer Fellowship	University of Nebraska-Lincoln	2008-2010
Honors and Distinction	Iowa State University	2007 May
2nd Place: Undergraduate Poster Competition	Iowa State University	2007 Apr
Donald J. Graves Undergraduate Research Scholarship	Iowa State University	2005 Spring
Highest 2% of Sophomores	College of Agriculture, Iowa State University	2004 Spring
DOW Agrosiences, LLC Scholarship	DOW Agrosiences, LLC	2004 Spring
Dexter French Top Sophomore	Iowa State University	2004 Spring
Top Sophomore Scholarship	Gamma Sigma Delta	2004 Spring
High Standard of Scholastic Importance Award	Psi Chapter of the Fraternity of Alpha Kappa Lambda	2004 Spring
Highest GPA Award	Psi Chapter of the Fraternity of Alpha Kappa Lambda	2004 Spring
Iowa State University Honors Program	Iowa State University	2003-2007
Academic Recognition Award	State of Iowa	2003-2006
Dean's List	College of Agriculture, Iowa State University	2003-2005

Academic Achievement Award	ISU InterFraternity Council	2003-2004
Merit Special Scholars	Maytag Corporation	2003 Fall

Honor Society Memberships

Name	Induction
Golden Key International Honor Society	2004 Nov
National Society of Collegiate Scholars	2004 Nov
Alpha Lambda Delta Honor Society	2004 Apr
Phi Eta Sigma Honor Society	2004 Apr

SERVICE

Professional Societies

American Society for Nutrition	Member	2005-Present
Experimental Biology 2015 Abstract Reviewer		2014
Organizer and Co-Chair of symposium, “Unscientific Beliefs about Scientific Topics in Nutrition” at EB2014		2014
Co-Chair of Session, “Obesity: Gut Microbiome and Obesity” at EB2015		2015
Judge for “Emerging Leaders in Nutrition Science Poster Competition” at EB2015		2015
Chair-Elect: Obesity Research Interest Section		2015-2016
Chair of Session, “Obesity: Chronic Disease” at EB2016		2016
Panelist, “Time in the public eye: Maintaining credibility while using your voice”		2016
Co-Lead Judge for “Emerging Leaders in Nutrition Science Poster Competition” Obesity RIS at EB2016		2016
Chair: Obesity Research Interest Section		2016-2017
At-Large-Member: Scientific Sessions Program Committee		2016-2018
American Society for Biochemistry and Molecular Biology	Member	2006-2008
The Obesity Society	Member	2012-Present
Public Affairs Committee – Early Career Representative		2014-2016
Co-Chair of Session, “Candles to Calorimeters: Assessment of Thermogenesis Normality in Obesity” at OW2015		2015

Chair: Basic Science Section		2016-2017
American Association for the Advancement of Science	Member	2014-Present
Alabama Academy of Science	Member	2014-Present
Sigma Xi	Member	2014-Present
American Public Health Association	Member	2015-Present
Ethics – Section Councilor		2015-Present
American Statistical Association	Member	2016-Present

Journal Service

Editorial Service

Journal	Title	Year(s)
Frontiers in Nutrition Methodology	Review Editor	2014-Present

Ad Hoc Reviewer

Journal	Year(s)
BMC Pediatrics	2017
Public Health Nutrition	2017
American Journal of Clinical Nutrition	2016;2015;2014; 2013;2012
Nutrients	2016;2015;2013
International Journal of Obesity	2016;2013;2012
Advances in Nutrition	2016; 2015
Neuropsychiatric Disease and Treatment	2016
BMC Research Notes	2016
Biology Letters	2016
BMC Public Health	2016
Nutrition and Diabetes	2016
International Journal of Environmental Research and Public Health	2016
PLoS ONE	2015;2014;2013
Nutrition, Metabolism & Cardiovascular Diseases	2015

Journal of Clinical Epidemiology	2015
British Medical Journal	2015
Obesity	2014;2013;2012
Lipids	2014
Childhood Obesity	2014
Journal of Health Care for the Poor and Underserved	2013;2012
Evaluation Review	2013;2012
Biochemical Pharmacology	2013
Lipids in Health and Disease	2013
Nutrition Research	2011
Food and Function	2011

Intramural Service

Activity	Title	Year(s)
University of Alabama at Birmingham		
Obesity and Energetics Offerings	Deputy Editor	2016-2017
Postdoctoral Research Day	Judge	2017
Obesity and Energetics Offerings	Co-Compiler	2012-2016
Graduate Student Research Day	Session Moderator	2015
Mock NIH Study Section for Trainees	Chair	2015
Statistician Search Committee	Member	2014
Graduate Biomedical Sciences Poster Session	Judge	2012-2013
Summer Research Expo	Judge	2013
SOPH/NORC Professional Development Workshop Committee	Co-chair of Grant writing workshop subcommittee	2012
University of Nebraska – Lincoln		
Graduate Student Association	Legislative Representative: Interdepartmental Nutrition Program	2010-2011
Graduate Student Association	Member: Academic Affairs committee	2010-2011

Iowa State University

Graduate and Professional Student Senate	President	2006-2007
Special Student Fees and Tuition Committee	Voting member	2006-2007
President's Advisory Committee on Budget and Planning		2006-2007
Recreation Facilities Study	Graduate Student Representative	2006-2007
Memorial Union Board of Directors	Member: Facilities Committee	2006-2007
Memorial Union Board of Directors	Member: Student Affairs Committee	2006-2007
VEISHEA Advisory Council		2006-2007
Executive Vice President and Provost Search Committee		2006
Ombuds Screening Committee		2006
Graduate and Professional Student Senate	Senator: Department of Biochemistry, Biophysics, and Molecular Biology	2005-2007
Biochemistry Graduate Student Organization		2005-2007
Graduate and Professional Student Senate	Chair: University Relations and Legislative Affairs	2005-2006
Government of the Student Body	Director of Graduate Affairs	2005-2006
Psi Chapter of the Fraternity of Alpha Kappa Lambda	External Relations Chairman	2005
Biochemistry Undergraduate Majors Society		2004-2006
Government of the Student Body	Senator for InterFraternity Council	2004-2005
InterFraternity Council	Government of the Student Body Representative	2004-2005
Junior Greek Council	President	2004 Spring
Psi Chapter of the Fraternity of Alpha Kappa Lambda	Philanthropy Chairman	2004
Psi Chapter of the Fraternity of Alpha Kappa Lambda	Pledge Class Vice President	2003-2004

Psi Chapter of the Fraternity of Alpha Kappa Lambda	House Historian	2003 Fall
Psi Chapter of the Fraternity of Alpha Kappa Lambda	Blood Drive Chair	2003 Fall

TEACHING

Classroom Teaching

Course	Information	n	Date
Energetics: Scientific Foundations of Obesity and Other Health Aspects – Guest Lecturer – HB706	University of Alabama at Birmingham Lectured on lipids	5	2016 Fall
Research Ethics Beyond Misconduct – Guest Lecturer	BioTeach, University of Alabama at Birmingham Lectured on research ethics beyond concepts of research misconduct to a group of high school science teachers.	12	2016 Summer
Fundamentals of Clinical Trials – Guest Lecturer – HB773	University of Alabama at Birmingham Lectured on Systematic Reviews and Meta-analyses	12	2016 Spring
Advanced Human Nutrition and Metabolism I – Guest Lecturer – NUTR 4510	Clemson University Lecture on sterols and lipid chemistry.	69	2015 Fall
Nutritional Methodology – Guest Lecturer	Clemson University Lecture on systematic reviews and meta-analysis.	5	2015 Spring
Nutritional Biochemistry – Guest Lecturer	Clemson University Lecture on sterols and lipid chemistry.	3	2014 Fall
Workshop on Research Ethics – Co-Coordinator	University of Alabama at Birmingham Co-coordinated a day-long training event on research ethics for Nutrition Obesity Research Center and Office of Energetics. Discussed local and federal aspects of research misconduct, and facilitated group participation in an interactive video exercise, The Research Clinic ,” hosted by the Office of	25	2014 Summer

Research Integrity.

University of Alabama at Birmingham

Responsible Conduct of Research Training

– Co-Coordinator

Co-coordinated a day-long training event on the Responsible Conduct of Research for Nutrition Obesity Research Center trainees. Discussed local and federal aspects of research misconduct, and facilitated group participation in an interactive video exercise, “[The Lab](#),” hosted by the Office of Research Integrity.

21 2013
Summer

Introduction to Statistics

– Instructor
– STAT 218

University of Nebraska-Lincoln

Developed student’s basic statistical knowledge, including understanding of terminology, computational concepts, and research literacy, through a combination of lectures and activities designed to encourage both quantitative and qualitative comprehension of the uses of statistics.

43 2010
Fall

New Directions in Human Nutrition

– Guest Lecturer

Osher Lifelong Learning Institute, University of Nebraska-Lincoln

Lectured on research and regulatory aspects of supplements and drugs.

29 2010
Fall

Advanced Nutrition

– Guest Lecturer
– NUTR 455

University of Nebraska-Lincoln

Lecture on dietary and herbal supplements.

100 2010
Fall

Advanced Nutrition

– Guest Lecturer
– NUTR 455

University of Nebraska-Lincoln

Lecture on dietary and herbal supplements.

100 2009
Fall

Advanced Nutrition

– Guest Lecturer
– NUTR 455

University of Nebraska-Lincoln

Macro- and micro-minerals as they relate to nutrition and nutritional status.

100 2008
Fall

Physiological Chemistry

– Teaching Assistant
– BBMB 420

Iowa State University

Assisted the teaching of biochemistry in a course designed for Veterinary Medicine and Health and Human Performance students by lecturing, grading, tutoring students, and designing and maintaining an online course supplement.

132 2007
Fall

Freshman Honor Program

– Seminar Co-Leader
– HON 302

Iowa State University

Co-led educational and training activities for incoming Freshman Honor Program students.

10 2004
Fall

Mentoring

Mentee

Project

Dates

Postdocs

Cynthia Kroeger, Ph.D.
-Secondary Mentor Rigor and reproducibility in nutrition research 2016-

Graduate Students

Mary Latimer
-NORC Mentoring Team, and
Dissertation Committee Establishing the role miRNAs play in muscle during
methionine restriction. 2016-

Adeniyi Jeremiah Idigo Quick service restaurants and obesity: systematic
review and meta-analysis. 2014-2015

Ann Laszczyk
-Rotating student Insulin sensitivity in liver in rodent Burn/CLP
model. 2012

Undergraduate Students

Rohit Borah PROSPERO review; Animated Vignettes 2015-2016

Joseph Thornton Research integrity project: best nutrition papers
tournament 2015

Rebecca Nitzel Intestinal lipid composition after phytosterol
consumption. 2010-2011

Paige Lundy
-UCARE student Cholesterol solubility in micelles. 2009-2010

Aaron Brandt Cholesterol solubility in micelles. 2009

Christopher Ferrel Substrate specificity for cholesterol esterase. 2008

Kate Wolford
-UCARE student Cholesterol solubility in micelles. 2008

Maria Fabiosa Effects of CLA from natural sources on health in
humans. 2007

Kristine Onken
-WISE intern Sucralose and ghrelin. 2006-2007

Chris Baudy
-Carver Intern CLA in beef preparation and storage. 2006

Mallory Breuker
-Freshman Honors Program Effects of CLA from natural sources on health in
humans. 2006

High School Students

Alexia Bowen High-intensity interval training vs continuous 2013

-Summer Science Institute

moderate exercise (HIIT Max study).

FUNDING

Nathan Shock Centers Coordinating Center (NSC3)

NIH/NIA U24 (Austad (Allison for Sub-Award)). Roll: **Co-Investigator of Sub-award.**

2017-03-01 – 2020-02-29. Total Budget: \$1,050,000.

Beyond textbook, yet simple, statistical tools for reproducible animal research

NIH/NIGMS-NIA-NINDS R25GM116167 (Allison/Brown). Roll: **Principle Investigator.**

2015-09-10 – 2017-08-31. Total Budget: \$149,958.

Science Dialogue Mapping of Knowledge and Knowledge Gaps Related to the Effects of Dairy Intake on Human Health.

National Dairy Council (Allison). Roll: **Co-Investigator.**

2016-06-01 – 2017-06-01. Total Budget: \$251,062.

Murine Rigor Supplement – UAB Nutrition Obesity Research Center Administrative Supplement.

NIH/NIDDK 3P30DK056336-15S1 (Allison). Roll: **Co-Investigator.**

2016-06-01 – 2017-05-31. Total Budget: \$100,000.

Science Education Enabling Careers (SEEC) Administrative Supplement

NIH/OD R25OD016490-03S1 (Wyss). Roll: **Other Personnel.**

2016-07-10 – 2017-02-28. Total Budget: \$107,999.

Crowdsourcing extraction of study characteristics – UAB Nutrition Obesity Research Center Administrative Supplement.

NIH/NIDDK P30 DK056336-13S1 (Allison). Roll: **Investigator.**

2014-06-01 – 2015-05-31. Total Budget: \$97,149.

UAB Exercise Study

Coca-Cola Foundation (David Allison). Roll: **Postdoc Fellow.**

2012-07-26 – 2015-04-27. Total Budget: \$300,000.

Miscommunicating obesity science: extrapolating results beyond model limitations

UAB NORC Early Career Study Award (**Brown**). Roll: **Principle Investigator.**

2013-06-14 – 2014-12-31. Total Budget: \$25,000.

UAB Obesity Training Program

NIH/NIDDK T32 DK062710-07 (Allison). Roll: **Trainee.**

2011-06-01 – 2014-05-31.