

## Michael W. Greene, Ph.D.

Department of Nutrition, Dietetics, and Hospitality Management  
College of Human Sciences

Auburn University

260 Lem Morrison Dr.

101C PSB

Auburn, AL 36849

Office Phone: 334-844-8435

Email: [mwgreene@auburn.edu](mailto:mwgreene@auburn.edu)

Lab Website: <http://auburn.edu/greenelab>

Online Research Profiles: [ResearchGate Profile](#) and [Google Scholar Profile](#)

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### EDUCATION:

- 2003      Postdoctoral Fellowship  
            Department of Molecular Pharmacology  
            Stanford University, Stanford, California  
            (Advisor: Richard A. Roth, Ph.D.)
- 2001      Postdoctoral Fellowship  
            Department of Cardiovascular and Metabolic Diseases  
            Pfizer Inc., Groton, Connecticut  
            (Advisor: Robert S. Garofalo, Ph.D.)
- 1998      Ph.D. in Molecular and Cell Biology  
            University of Connecticut, Storrs, Connecticut  
            (Advisor: Thomas T. Chen, Ph.D.)
- University of Maryland, Baltimore County, Baltimore, Maryland  
            (transferred to University of Connecticut with advisor)
- 1992      M.S. in Aquatic Toxicology  
            School of Fisheries  
            University of Washington, Seattle, Washington  
            (Advisor: Richard Kocan, Ph.D.)
- 1988      B.S. in Biology and Marine Science  
            University of Miami, Coral Gables, Florida  
            (Senior Thesis: Michael C. Schmale, Ph.D.)

**PROFESSIONAL POSITIONS:**

- 2019-present Mike and Leann Rowe Endowed Professorship in International Studies
- 2018-present Associate Professor, College of Human Sciences, Auburn University, Auburn, AL
- 2018-present Member, Center for Neuroscience Initiative, Auburn University, Auburn, AL
- 2014-present Director, Auburn University Metabolic Phenotyping Laboratory (AUMPL), Auburn University, Auburn, AL
- 2013-present Member, Cellular and Molecular Biosciences Program, Auburn University, Auburn, AL
- 2012-present Investigator, Boshell Diabetes and Metabolic Disease Research Program, Auburn University, Auburn, AL
- 2012-present Investigator, Auburn University Research Initiative in Cancer (AURIC), Auburn University, Auburn, AL
- 2012-2018 Assistant Professor, College of Human Sciences, Auburn University, Auburn, AL
- 2010-2012 Head, Basic Science Group, Bassett Research Institute, Mary Imogene Bassett Hospital, Bassett HealthCare Network, Cooperstown, NY
- 2003-2012 Research Scientist, Bassett Research Institute, Mary Imogene Bassett Hospital, Bassett HealthCare Network, Cooperstown, NY
- 2003 Consultant, CellGate, Inc., Sunnyvale, CA
- 1995-1998 Graduate Assistant, Department of Molecular and Cell Biology, University of Connecticut, Storrs, CT
- 1993 Research Assistant, Department of Pathology, Portland VA Medical Center, Portland, OR
- 1990-1992 Consultant, School of Fisheries, University of Washington, Seattle, WA
- 1985-1990 Research technician, Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, Miami, FL

**PUBLICATIONS:**

1. Maguire, A. S., Woodie, L.N., Judd, R. L., Martin, D. R., **Greene, M.W.** and Graff. E.C., (2020) Whole-slide image analysis outperforms micrograph acquisition for adipocyte size quantification. *Adipocyte (in press)*  
*Impact Factor: 3.146 (#112 out of 143 in Endocrinology & Metabolism by Eigenfactor Score)*
2. Schaberg, M. N., Smith, S. S., **Greene, M.W.**, and Fruge, A.D. (2020) Characterizing demographic and geographical differences in health beliefs and dietary habits related to colon cancer risk in US adults. *Frontiers in Nutrition (in press)*  
*Impact Factor: 3.365 (#48 out of 89 in Nutrition & Dietetics by Eigenfactor Score)*
3. Woodie, L.N., Johnson, R.M., Ahmed, B., Haynes, W., Fowler. S., Carmona, B., Reed, M., Suppiramaniam, V., and **Greene, M.W.** (2020) Western Diet-Induced Obesity Disrupts Diurnal Rhythmicity in the Mouse Hippocampus. *Brain, Behavior, and Immunity* S0889-1591(20)30047-7. doi: 10.1016/j.bbi.2020.05.053  
*Impact Factor: 6.633 (#29 out of 271 in Behavioral Sciences by Eigenfactor Score)*
4. Woodie, L.N., Neinast, C.E., Haynes, W., Ahmed, B., Graff. E.C., and **Greene, M.W.** (2020) The physio-metabolic effects of time-restricting liquid sugar intake to six-hour windows during the mouse active phase. *Physiology & Behavior Volume 223, p 112905*  
*Impact Factor: 2.689 (#8 out of 52 in Behavioral Sciences by Eigenfactor Score)*
5. Smith, S. S., **Greene, M.W.**, Jeganathan, R.B., and Fruge, A.D. (2019) Psychobiotics as treatment for mental health conditions and related symptoms. *Nutritional Neuroscience (in press)* <https://doi.org/10.1080/1028415X.2019.1701220>  
*Impact Factor: 3.950 (#59 out of 86 in Nutrition & Dietetics by Eigenfactor Score)*
6. Knight, C. J., Jackson, O., Rahman, I., Burnett, D.O., Fruge, A.D., and Greene, M.W. (2019) The Mediterranean diet in the Stroke Belt: a cross-sectional study on adherence and perceived knowledge, barriers, and benefits. *Nutrients* 11(8), 1847;  
<https://doi.org/10.3390/nu11081847>  
*Impact Factor: 4.171 (#3 out of 85 in Nutrition & Dietetics by Eigenfactor Score)*
7. Chester, B., Jeganathan, R., **Greene, M. W.**, and Thangiah, G. (2019) The Effects of popular diets on type 2 diabetes management. *Diabetes/Metabolism Research and Reviews* 35(8), e3188  
*Impact Factor: 3.904 (#48 out of 142 in Endocrinology & Metabolism by Eigenfactor Score)*

8. Smith, K. Rundquist, S., **Greene, M. W.**, and Fruge, A.D. (2019) Development of the Dietary Habits and Colon Cancer Beliefs Survey (DHCCBS); an instrument assessing health beliefs related to red meat and green leafy vegetable consumption. *Journal of Oncology* 2019, 2326808 *Impact Factor: 2.600* (#208 out of 229 in Oncology by Eigenfactor Score)
9. Willis, A. W., Brown, O., and **Greene, M.W.** (2019) The use of theory in cardiovascular disease interventions promoting a Mediterranean style diet: a systematic review. *Nutrition, Metabolism & Cardiovascular Diseases* Apr;29(4):325-333 *Impact Factor: 3.318* (#21 out of 81 in Nutrition & Dietetics by Eigenfactor Score)
10. Woodie, L. N., Altonji, O. M., Huggins, K., and Greene, M.W. (2018) The high-fat diet and the effects of its consumption on the Hypothalamus and Hippocampus. *CAB Reviews* 14: 1-9. *H index: 21* (#143 out of 268 in Agriculture and Biological Sciences by Scimago Rank))
11. O'Neill, A.M., Gillaspie, E., Burrington, C. M., Lynch, D. T., Dauchy, R.T., Blask, D. E., Tirrell, P.C., Reis, B., Horesman, M.J., and **Greene, M.W.** (2018) Development and characterization of a novel congenic rat strain for cancer research. *Nutrition and Cancer* doi: 10.1080/01635581.2018.1412483 *Impact Factor: 2.447* (#34 out of 81 in Nutrition & Dietetics by Eigenfactor Score)
12. Woodie, L.N., Luo, Y., Wayne, M. J., Graff. E.C., O'Neill, A.M., and **Greene, M.W.** (2018) Restricted feeding for 9 hours in the active period partially abrogates the detrimental metabolic effects of a Western diet with liquid sugar consumption in mice. *Metabolism Experimental and Clinical* 82:1-13 (<https://doi.org/10.1016/j.metabol.2017.12.004>) *Impact Factor: 5.777* (#27 out of 134 in Endocrinology & Metabolism by Eigenfactor Score)
13. Bottcher, M.R., Marincic, P. Z., Nahay, K.L., Baerlocher, B.E., Willis, A.W., Park, P., Gaillard, P. and **Greene, M.W.** (2017) Nutrition knowledge and Mediterranean diet adherence in the southeast United States: Validation of a field-based survey instrument. *Appetite*. 2017;111:166-76 doi: 10.1016/j.appet.2016.12.029. Epub 2016 Dec 21. *Impact Factor: 3.125* (#7 out of 80 in Nutrition & Dietetics by Eigenfactor Score)
14. Kothari, V., Luo, Y., Tornabene, T., O'Neill, A.M., **Greene, M.W.** Thangiah, G., and Babu, J.R. (2017) High fat diet induces brain insulin resistance and cognitive impairment in mice. *BBA – Molecular Basis of Disease*. 1863:499-508 doi: 10.1016/j.bbadis.2016.10.006. Epub 2016 Oct 19. *Impact Factor: 5.158* (#57 out of 289 in Biochemistry & Molecular Biology by Eigenfactor Score)
15. O'Neill, A.M., Burrington, C. M., Gillaspie. E.A., Lynch, D.T., Horsman, M.J., and **Greene, M.W.** (2016) High fat western diet induced obesity contributes to increased tumor growth in mouse models of human colon cancer. *Nutrition Research*. 36:1325-34 doi: 10.1016/j.nutres.2016.10.005. Epub 2016 Oct 21. *Impact Factor: 2.523* (#30 out of 80 in Nutrition & Dietetics by Eigenfactor Score)

16. Luo, Y., Burrington, C. M., Graff, E.C., Zhang, J., Judd, R.L., Suksaranjit, P., Kaewpoowat, Q., Davenport, S.K., O'Neill, A.M., and **Greene, M.W.** (2016) Metabolic phenotype and adipose and liver features in the high fat Western diet-induced mouse model of obesity-linked NAFLD. *Am J Physiol Endocrinol Metab.* Mar 15; 310(6):E418-39. doi: 10.1152/ajpendo.00319.2015. Epub 2015 Dec 15.  
*Impact Factor: 3.785* (#14 out of 133 in Endocrinology & Metabolism by Eigenfactor Score)
17. Blask, D. E., Dauchy, R. T., Dauchy, E. M., Mao, L., Hill, S. M., **Greene, M. W.**, Belancio, V. P., Sauer, L. A., and Davidson, L. (2014). Light exposure at night disrupts host/cancer circadian regulatory dynamics: impact on the warburg effect, lipid signaling and tumor growth prevention. *PLoS One* 9(8): e102776.  
*Impact Factor: 3.534* (#4 out of 55 in Multidisciplinary Sciences by Eigenfactor Score)
18. Zhang, J., Burrington, C.M., Davenport, S.K., Johnson, A.K., Horsman. M.J., Chowdhry, S., and **Greene, M.W.** (2014) PKCdelta regulates hepatic triglyceride accumulation and insulin signaling in Lepr mice. *Biochem Biophys Res Commun.* doi: 10.1016/j.bbrc.2014.07.048. Epub 2014 Jul 15.  
*Impact Factor: 2.281* (#11 out of 291 in Biochemistry & Molecular Biology by Eigenfactor Score)
19. **Greene, M.W.**, Burrington, C. M., Luo, Y., Ruhoff, M. S., Lynch, D. T., and Chaithongdi, N. (2014) PKC $\delta$  is activated in the liver of obese Zucker rats and mediates diet-induced whole body insulin resistance and hepatocyte cellular insulin resistance. *J. Nutr. Biochem.* 25(3):281-8. doi: 10.1016/j.jnutbio.2013.10.008. Epub 2013 Nov 15.  
*Impact Factor: 4.592* (#12 out of 80 in Nutrition & Dietetics by Eigenfactor Score)
20. **Greene, M.W.**, Burrington, C. M., Lynch, D. T., Davenport, S. K., Johnson, A. J., Horsman, M. J., Chowdhry, S., Zhang, J., Sparks, J. D., and Tirrell, P. C. (2014) Lipid metabolism, oxidative stress and cell death are regulated by PKC delta in a dietary model of nonalcoholic steatohepatitis. *PLoS ONE* 9(1): e85848. doi:10.1371/journal.pone.0085848  
*Impact Factor: 3.534* (#4 out of 55 in Multidisciplinary Sciences by Eigenfactor Score)
21. **Greene, M.W.** (2012) Circadian rhythms and tumor growth. *Cancer Lett.* 318(2):115-123.  
*Impact Factor: 5.016* (#23 out of 203 in Oncology by Eigenfactor Score)
22. Wu, J., Dauchy, R.T., Tirrell, P.C., Wu, S. S., Lynch, D. T., Jitawatanarat, J., Burrington, C. M., Dauchy, E.M., Blask, D. E. and **Greene, M.W.**, (2011) Light at night activates IGF-1R/PDK1 signaling and accelerates tumor growth in human breast cancer xenografts. *Cancer Res.* 71(1):2622-2631.  
*Impact Factor: 9.284* (#2 out of 203 in Oncology by Eigenfactor Score)
23. **Greene, M. W.**, Burrington, C. M., Ruhoff, M. S., Johnson, A. J., Chongkraitanakul, T. and Kangwanpornsi, A. (2010) Protein kinase C (PKC) delta is activated in a dietary model of

steatohepatitis and regulates endoplasmic reticulum stress and cell death. *J. Biol. Chem.* 285(53):42115-42129.

*Impact Factor: 4.600* (#1 out of 291 in Biochemistry and Molecular Biology by Eigenfactor Score)

24. Dauchy, R.T., Dauchy, E.M., Tirrell, R.P., Hill, C.R., Davidson, L.K., **Greene, M.W.**, Tirrell, P.C., Wu, J., Sauer, L.A., and Blask, D. E. (2010) Dark-phase light contamination disrupts circadian rhythms in plasma measures of endocrine physiology and metabolism in rats. *Comp Med.* 60(5):348-56.

*Impact Factor: 0.760* (#53 out of 132 in Biochemistry and Molecular Biology by Eigenfactor Score)

25. **Greene, M. W.**, Ruhoff, M. S., Burrington, C. M., Garofalo, R. S., and Orena, S. J. (2010) TNF $\alpha$ -induced insulin resistance in hepatocytes is mediated by PKC $\delta$ . *Cell. Signalling* 22(2):274-84.

*Impact Factor: 4.471* (#47 out of 185 in Cell Biology by Eigenfactor Score)

26. Ruhoff, M. S., **Greene, M. W.**, and Peters, T. (2010) Location of the Mutation Site in the First Two Reported Cases of Analbuminemia. *Clinical Biochemistry* 43(4-5):525-527.

*Impact Factor: 2.229* (#4 out of 31 in Medical Laboratory Technology by Eigenfactor Score)

27. Dauchy, R.T., Blask, D.E., Dauchy, E.M., Davidson, L.K., Tirrell, P.C., **Greene, M.W.**, Tirrell, R.P., Hill, C.R., and Sauer, L.A. (2009) Antineoplastic effects of melatonin on a rare malignancy of mesenchymal origin: melatonin receptor-mediated inhibition of signal transduction, linoleic acid metabolism and growth in tissue-isolated human leiomyosarcoma xenografts. *J Pineal Res.* 47:32-34.

*Impact Factor: 7.812* (#47 out of 124 in Endocrinology by Eigenfactor Score)

28. **Greene, M. W.**, Ruhoff, M. S., Roth, R. A., Kim, J., Quon, M. J., and Krause, J. A. (2006) PKC $\delta$ -mediated IRS-1 Ser24 phosphorylation negatively regulates IRS-1 function. *Biochem. Biophys. Res. Commun.* 349(3): 976-986.

*Impact Factor: 2.281* (#11 out of 291 in Biochemistry and Molecular Biology by Eigenfactor Score)

29. **Greene, M. W.**, Morrice, N., Garofalo, R. S., and Roth R. A. (2004). Modulation of human insulin receptor substrate-1 tyrosine phosphorylation by protein kinase Cdelta. *Biochem J.* 378(1): 105-116.

*Impact Factor: 4.779* (#22 out of 291 in Biochemistry and Molecular Biology by Eigenfactor Score)

30. **Greene, M. W.**, Sakaue, H, Wang, L., Alessi, D., and Roth, R. A. (2003). Modulation of insulin-stimulated degradation of human insulin receptor substrate-1 by serine 312 phosphorylation. *J. Biol. Chem.* 278(10):8199-8211.

*Impact Factor: 4.600 (#1 out of 291 in Biochemistry and Molecular Biology by Eigenfactor Score)*

31. **Greene, M. W.** and Garofalo, R. S. (2002). Positive and negative regulatory role of insulin receptor substrate 1 and 2 (IRS-1 and IRS-2) serine/threonine phosphorylation. *Biochemistry* 41(22):7082-7092.  
*Impact Factor: 3.194 (#10 out of 291 in Biochemistry and Molecular Biology by Eigenfactor Score)*
32. Yang, B. Y., **Greene, M.**, and Chen, T. T. (1999). Early embryonic expression of the growth hormone family protein genes in the developing rainbow trout, *Oncorhynchus mykiss*. *Mol. Reprod. Dev.* 53(2):127-34.  
*Impact Factor: 2.675 (#157 out of 291 in Biochemistry and Molecular Biology by Eigenfactor Score)*
33. **Greene M. W.**, Shambloott M. J., and Chen T. T. (1999). Presence of GH-dependent IGF-II mRNA in the diffuse pancreatic tissue of a teleost. *Comp. Biochem. Physiol. Part B* 122:287-292.  
*Impact Factor: 2.175 (#160 out of 291 in Biochemistry and Molecular Biology by Eigenfactor Score)*
34. **Greene, M. W.** and Chen, T. T. (1999a). Characterization of insulin receptor family members. I. Developmental expression of insulin receptor messenger RNAs in rainbow trout. *Gen. Comp. Endocrinol.* 115:254-269.  
*Impact Factor: 2.674 (#29 out of 124 in Endocrinology by Eigenfactor Score)*
35. **Greene, M. W.** and Chen, T. T. (1999b). Characterization of insulin receptor family members. II. Developmental expression of IGF receptor messenger RNAs in rainbow trout. *Gen. Comp. Endocrinol.* 115:270-281.  
*Impact Factor: 2.674 (#29 out of 124 in Endocrinology by Eigenfactor Score)*
36. **Greene, M. W.** and Chen, T. T. (1999c). Quantitation of IGF-I, IGF-II, and multiple insulin receptor family member messenger RNAs during embryonic development in rainbow trout. *Mol. Reprod. Dev.* 54:348-361.  
*Impact Factor: 2.675 (#157 out of 291 in Biochemistry and Molecular Biology by Eigenfactor Score)*
37. Shambloott, M. J., Leung, M., **Greene, M. W.**, and Chen, T. T. (1998). Characterization of rainbow trout IGF-II gene: evidence for promoter CAAAT enhancer binding (C/EBP) sites and hepatic C/EBP. *Mar. Mol. Biol. Biotechnol.* 7(3):181-90.  
*Mar. Mol. Biol. Biotechnol. has been renamed Marine Biotechnol. (Impact Factor: 2.748)*

38. **Greene, M. W.** and Chen, T. T. (1997). Temporal expression pattern of IGF mRNA during embryonic development in rainbow trout (*Oncorhynchus mykiss*). *Mar. Mol. Biol. Biotechnol.* 6(2):144-151.  
*Mar. Mol. Biol. Biotechnol. has been renamed Marine Biotechnol. (Impact Factor: 2.748)*
39. **Greene, M. W.** and Kocan, R. M. (1997). Toxicological mechanisms of a multicomponent agricultural seed protectant in the rainbow trout (*Oncorhynchus mykiss*) and fathead minnow (*Pimephales promelas*). *Can. J. Fish. Aquat. Sci.* 54:1387-1390.  
*Impact Factor: 2.276 (#4 out of 50 in Fisheries by Eigenfactor Score)*

#### BOOK CHAPTER OR ONLINE CONTENT:

- 2016 Greene M.W. Glucose Metabolism. In: Schwabe M, editor. *Encyclopedia of Cancer*. Springer Press. <http://www.springer.com/us/book/9783662468746>
- 2012 Greene M.W. Glucose Metabolism. In: Schwabe M, editor. *Encyclopedia of Cancer*. Springer Press. <http://www.springer.com/us/book/9783642164828>

#### THESIS AND DISSERTATION PUBLICATIONS:

- 1998 Greene, M. W. Developmental expression of insulin-like growth factor and insulin receptor family member messenger RNAs in rainbow trout (*Oncorhynchus mykiss*). Doctoral Dissertation, University of Connecticut
- 1992 Greene, M. W. The interaction toxicity of thiram and ethylene glycol: toxicological mechanisms in the rainbow trout (*Oncorhynchus mykiss*) and fathead minnow (*Pimephales promelas*). Master's Thesis, University of Washington

#### NEWSPAPER ARTICLES:

- Marincic, P. Z. and **Greene, M. W.** (2016, Nov 4). Nutrition on the Plains: An Apple a Day. In *Opelika-Auburn News*.
- Greene, M. W.** and Marincic, P. Z. (2016, Sept 23). Fruits and Vegetables: Things you may not know. In *Opelika-Auburn News*.
- Marincic, P. Z. and **Greene, M. W.** (2016, Mar 4). The results are in for the Dietary Guidelines 2015, and the winners are... . In *Opelika-Auburn News*.

**Greene, M. W.** and Marincic, P. Z. (2016, Jan 15). The annual obsession with diets. In *Opelika-Auburn News*.

Marincic, P. Z. and **Greene, M. W.** (2015, Nov 20). Summer gives way to winter squash. In *Opelika-Auburn News*.

**Greene, M. W.** and Marincic, P. Z. (2015, Oct 2). With the new season comes fall fruits, vegetables. In *Opelika-Auburn News*.

Marincic, P. Z. and **Greene, M. W.** (2015, Sept 3). Back to School: Nutrition Tips for Young Athletes. In *Opelika-Auburn News*.

**Greene, M. W.** and Marincic, P. Z. (2015, July 24). The Dog Days of Summer and Extra Virgin Olive Oil. In *Opelika-Auburn News*.

Marincic, P. Z. and **Greene, M. W.** (2015, June 26). Spinach: Nature's True Super Food! In *Opelika-Auburn News*.

**Greene, M. W.** and Marincic, P. Z. (2015, May 7). Herbs and Spices: Seasonings in your backyard and from around the World. In *Opelika-Auburn News*.

Marincic, P. Z. and **Greene, M. W.** (2015, March 26). Does the Easter Bunny have it right? In *Opelika-Auburn News*.

**Greene, M. W.** and Marincic, P. Z. (2015, February 26). The not so "bad" egg. In *Opelika-Auburn News*.

Marincic, P. Z. and **Greene, M. W.** (2015, January 24). Maintaining a Healthy Weight: Small Steps can Make Big Differences. In *Opelika-Auburn News*.

**Greene, M. W.** and Marincic, P. Z. (2014, December 21). Is it bad to skip a meal during the Holidays? In *Opelika-Auburn News*.

**Greene, M. W.** and Marincic, P. Z. (2014, November 23). The Humble Sweet Potato: It's not just for Thanksgiving. In *Opelika-Auburn News*.

Marincic, P. Z. and **Greene, M. W.** (2014, October 19). Nutritious Nuts: The Finer Fats. In *Opelika-Auburn News*.

**Greene, M. W.** and Marincic, P. Z. (2014, September 21). The not so sweet side of sugar sweetened beverages. In *Opelika-Auburn News*.

## PRESS/NEWS FEATURES

- July 2020 Auburn News Article titled 'Mediterranean diet, plant-based foods becoming more popular as pandemic disrupts food supply chain' featured on the Auburn University webpage The Frontline Auburn Experts Take On Coronavirus.  
<https://ocm.auburn.edu/experts/2020/06/171100-plant-based-foods-diet.php?ref=coronavirus&cat=medical>
- Sept 2019 Auburn News Article titled 'Auburn University nutrition researchers investigate promising keys to unlocking the mysteries of Alzheimer's disease' featured on the Auburn University homepage.  
[https://ocm.auburn.edu/newsroom/news\\_articles/2019/09/191336-nutrition-researchers-alzheimers-disease.php](https://ocm.auburn.edu/newsroom/news_articles/2019/09/191336-nutrition-researchers-alzheimers-disease.php)
- April 2018 Research highlighted in the 2018 Auburn University AAES Research Accomplishments
- April 2018 Research highlighted in the 2018 Auburn University AAES Annual Report
- March 2016 EagleEyeTv.com news article on the 'Western diet'. First aired: March 11, 2016.  
<http://www.eagleeyetv.com/auburn-nutrition-expert-helps-students-stay-healthy-while-eating-on-campus/>
- March 2016 Auburn News Article titled 'Assistant professor, students' investigation of Western diet presented at Boshell Research Day' featured on the Auburn University homepage.  
[http://ocm.auburn.edu/newsroom/news\\_articles/2016/03/assistant-professor-students-investigation-of-western-diet-presented-at-boshell-research-day.htm](http://ocm.auburn.edu/newsroom/news_articles/2016/03/assistant-professor-students-investigation-of-western-diet-presented-at-boshell-research-day.htm)
- Sept. 2015 Auburn News Article titled 'New study tour option lets students experience Mediterranean Diet in Southern Italy' featured on the Auburn University homepage.  
[http://ocm.auburn.edu/newsroom/news\\_articles/2015/09/new-study-tour-option-lets-students-experience-mediterranean-diet-in-southern-italy.htm](http://ocm.auburn.edu/newsroom/news_articles/2015/09/new-study-tour-option-lets-students-experience-mediterranean-diet-in-southern-italy.htm)

**AWARDS AND HONORS RECEIVED:**

- 2019-present Mike and Leann Rowe Endowed Professorship in International Studies
- 2018 SGA Outstanding Faculty Member for the College of Human Sciences, Auburn University
- 2018 Camp War Eagle Academic Representative for the College of Human Sciences, Auburn University
- 2016-present Honorary Member Alpha Epsilon Delta Honor Society
- 1998-present Member of Phi Kappa Phi Honor Society

1991-1992 John N. Cobb Memorial Scholarship

## **INSTITUTIONAL SERVICE:**

### **Auburn University**

#### *Department*

2016-present Fred and Charlene Kam Endowed Fund for Research Excellence in Nutrition-Dietetics Committee  
2015-present Haggard Family Annual Undergraduate Research Award Committee  
2014-present Research sub-committee faculty head, Nutrition Advisory Board  
2013-present Malone-Zallen Award Committee

#### *College*

2019 College of Human Sciences Dean search committee member  
2019 Editorial Council member  
2016-present Kappa Omicron Nu Honor Society Research Panel member  
2015 College of Human Sciences Professional Development Contributor  
2013 Center for Health Ecology Research Draft Committee

#### *University*

2018-present Institutional Animal Care and Use Committee (IACUC) Member  
2017-present Board of Directors, Boshell Diabetes and Metabolic Diseases Research Program  
2017 Judge for College of Agriculture Graduate Student Poster Showcase 2017  
2017-present Provost's Award for Faculty Excellence in Undergraduate Research Mentoring Committee  
2017 Judge for Graduate student poster presentations, AU Research Week 2017  
2017 Judge for Postdoctoral fellow/Graduate student poster presentations, 10<sup>th</sup> Annual Boshell Diabetes Research Symposium  
2016-2019 University Senate, Departmental Senator  
2016 Judge for Postdoctoral fellow/Graduate student poster presentations, 9<sup>th</sup> Annual Boshell Diabetes Research Symposium  
2015 Judge for Postdoctoral fellow/Graduate student poster presentations, 8<sup>th</sup> Annual Boshell Diabetes Research Symposium  
2014-present Research Infrastructure Task Force  
2013-present Honors College Advisory Committee

### **Mary Imogene Bassett Hospital**

2011-2012 General Medical Education Committee  
2009-2012 E. Donnell Thomas Resident Research Review Committee (Chair)  
2007-2012 Institutional Animal Care and Use Committee  
2007-2012 E. Donnell Thomas Resident Research Review Committee (Member)  
2007-2012 Radiation Safety Committee

**MANUSCRIPT PEER REVIEW:**

*Editorial Position*

Academic Editor for PLOS One

*Ad-hoc Journal Review*

BBA - Molecular Basis of Disease, Biochimie, Biomedicine & Pharmacotherapy, British Journal of Nutrition, British Journal of Surgery, Cancer, Cancer Letters, Cancer Management and Research, Chemo-Biological Interactions, Diabetes, European Journal of Lipid Science and Technology, FEBS Open Bio, Food & Function, Food and Nutrition Research, Gastroenterology, Journal of Hepatology, Journal of Nutritional Biochemistry, Journal of the American Association for Laboratory Animal Science, Journal of Proteome Research, Journal of Translational Medicine, Metabolism, Molecular and Cellular Endocrinology, Nature Communications, Nutrients, Nutrition, Nutrition & Cancer, Nutrition and Diabetes, Metabolism & Cardiovascular Diseases, Oxidative Metabolism and Cellular Longevity, Physiology & Behavior, PLOS Computational Biology, PLOS One, and Preventive Medicine Reports, Proceedings of the National Academy of Sciences (PNAS), Stress, Toxicology Research

**GRANT PEER REVIEW:**

2020	Croatian Science Foundation (HRZZ) September Review Cycle
2019	AU IGP Grant Program
2018	Diabetes UK: Project Grant Program (Review Cycle)
2018	USDA-AAES Agricultural Research Enhancement and Seed Funding Program
2018	AU IGP Grant Program
2017	AU Research Initiative in Cancer: Major Grant Program
2016	Croatian Science Foundation (HRZZ) August Review Cycle
2016	Worldwide Cancer Research (formerly known as AICR) February Review Cycle
2016	USDA, Alabama Agricultural Experiment Station (AAES) Hatch Review
2015	USDA, National Institute of Food and Agriculture: Exploratory Research Program July Review Cycle

2015	Diabetes UK: Project Grant Program (Feb and July Review Cycles)
2014	USDA, Alabama Agricultural Experiment Station (AAES) Hatch Review
2013	AU Research Initiative in Cancer: Seed Award
2013	USDA, Alabama Agricultural Experiment Station (AAES) Hatch Review
2012	NIH ZRG1 EMNR-S (90) AREA: Endocrinology, Metabolism, Nutrition and Reproduction October Review Cycle
2012	NIH IPOD Integrative Physiology of Obesity and Diabetes Study Section October Review Cycle
2007	Israel Science Foundation

**TEACHING EXPERIENCE:**

**Auburn University**

<i>Course</i>	<i>Credits</i>	<i>Students</i>	<i>Term</i>
Minerals (NTRI 7500)	3	13	Fall 2020
Minerals – Distance (NTRI 7506)	3	15	Fall 2020
Nutrition in Disease Prevention (NTRI 5100/6100)	2	9	Summer 2020
Nutrition in Disease Prevention (NTRI 5100/6100)	2	39	Spring 2020
Nutrition and Health (NTRI 2000)	3	260	Spring 2020
Honors Undergraduate Research (NTRI 4980)	3	1	Spring 2020
Mediterranean Diet Pre-Study Abroad (NTRI 5380/6380)	1	14	Spring 2020
Minerals (NTRI 7500)	3	7	Fall 2019
Minerals – Distance (NTRI 7506)	3	6	Fall 2019
Nutrition in Disease Prevention (NTRI 5100/6100)	2	24	Spring 2019
Nutrition and Health (NTRI 2000)	3	257	Spring 2019
Honors Nutrition and Health (NTRI 2007)	3	17	Spring 2019

*Michael W. Greene*

Honors Research Seminar (HONR 3987)	3	8	Spring 2019
Undergraduate Research (NTRI 4980)	3	1	Spring 2019
Minerals (NTRI 7500)	3	7	Fall 2018
Minerals – Distance (NTRI 7506)	3	13	Fall 2018
Mediterranean Diet Study Abroad (NTRI 5380)	4	13	Summer 2018
Nutrition in Disease Prevention (NTRI 6106)	2	9	Summer 2018
Honors Undergraduate Research (NTRI 4980)	3	1	Summer 2018
Nutrition in Disease Prevention (NTRI 5100/6100)	2	24	Spring 2019
Nutrition and Health (NTRI 2000)	3	257	Spring 2019
Honors Nutrition and Health (NTRI 2007)	3	17	Spring 2019
Honors Research Seminar (HONR 3987)	3	8	Spring 2019
Undergraduate Research (NTRI 4980)	3	1	Spring 2019
Nutrition in Disease Prevention (NTRI 5100/6100)	2	15	Spring 2018
Nutrition and Health (NTRI 2000)	3	233	Spring 2018
Honors Nutrition and Health (NTRI 2007)	3	8	Spring 2018
Honors Research Seminar (HONR 3987)	3	11	Spring 2018
Mediterranean Diet Pre-Study Abroad (NTRI 5380)	1	13	Spring 2018
Honors Undergraduate Research (NTRI 4980)	3	1	Spring 2018
Minerals (NTRI 7500)	3	12	Fall 2017
Minerals – Distance (NTRI 7506)	3	8	Fall 2017
Undergraduate Research and Study (NTRI 4980)	2	3	Summer 2017
Mediterranean Diet Study Abroad (NTRI 5380)	4	8	Summer 2017
Nutrition in Disease Prevention (NTRI 5100 sec 01)	2	9	Spring 2017
Nutrition in Disease Prevention (NTRI 5100 sec 02)	2	5	Spring 2017
Nutrition in Disease Prevention (NTRI 6100)	2	3	Spring 2017
Nutrition and Health (NTRI 2000)	3	181	Spring 2017
Honors Nutrition and Health (NTRI 2007)	3	12	Spring 2017
Honors Research Seminar (HONR 3987)	3	13	Spring 2017
Minerals (NTRI 7500)	3	12	Fall 2016
Minerals – Distance (NTRI 7506)	3	5	Fall 2016
Mediterranean Diet Study Abroad (NTRI 5380)	5	8	Summer 2016
Mediterranean Diet Study Abroad (NTRI 6380)	5	3	Summer 2016
Nutrition in Disease Prevention (NTRI 5100)	2	5	Summer 2016
Advanced Independent Study (NTRI 7930)	3	1	Summer 2016

Mediterranean Diet Pre-Study Abroad (NTRI 5380)	1	8	Spring 2016
Mediterranean Diet Pre-Study Abroad (NTRI 6380)	1	2	Spring 2016
Nutrition in Disease Prevention (NTRI 5100 sec 01)	2	25	Spring 2016
Nutrition in Disease Prevention (NTRI 5100 sec 02)	2	3	Spring 2016
Nutrition in Disease Prevention (NTRI 6100)	2	2	Spring 2016
Nutrition in Disease Prevention (NTRI 6106)	2	1	Spring 2016
Nutrition and Health (NTRI 2000)	3	249	Spring 2016
Honors Nutrition and Health (NTRI 2007)	3	8	Spring 2016
Honors Thesis (NTRI 4997)	2	1	Spring 2016
Minerals (NTRI 7500)	3	15	Fall 2015
Minerals – Distance (NTRI 7506)	3	5	Fall 2015
Methods of Research (NTRI 7050)	2	22	Fall 2015
Methods of Research – Distance (NTRI 7056)	2	10	Fall 2015
Research Seminar (NTRI 7850-8850)	1	7	Fall 2015
Special Problems (NTRI 7960)	3	1	Fall 2015
Mediterranean Diet Study Abroad (NTRI 5380)	5	12	Summer 2015
Honors Research Seminar (HONR 3987)	3	12	Spring 2015
Mediterranean Diet Pre-Study Abroad (NTRI 5380)	1	12	Spring 2015
Nutrition in Disease Prevention (NTRI 5100)	2	15	Spring 2015
Nutrition in Disease Prevention (NTRI 6100)	2	2	Spring 2015
Honors Nutrition and Health (NTRI 2007)	3	12	Spring 2015
Undergraduate Research and Study (NTRI 4980)	2	1	Spring 2015
Directed Studies (NTRI 4930)	1	1	Spring 2015
Nutrition in Disease Prevention (NTRI 5100)	2	15	Fall 2014
Nutrition in Disease Prevention (NTRI 6100)	2	3	Fall 2014
Minerals (NTRI 7500)	3	12	Fall 2014
Honors Nutrition and Health (NTRI 2007)	3	8	Fall 2014
Nutrition in Disease Prevention (NTRI 5100)	2	14	Spring 2014
Honors Nutrition and Health (NTRI 2007)	3	9	Spring 2014
Honors Nutrition and Health (NTRI 2007)	3	25	Fall 2013
Minerals (NTRI 7500)	2	12	Fall 2013
Undergraduate Research and Study (NTRI 4980)	2	2	Fall 2013
Honors Nutrition and Health (NTRI 2007, sec 001)	3	20	Spring 2013
Honors Nutrition and Health (NTRI 2007, sec 002)	3	20	Spring 2013
Nutrition and Health (NTRI 2000)	3	109	Fall 2012

**University of Connecticut**

*Course*

Experiments in Molecular Genetics Lab

*Term*

Fall 2007

Head TA (MCB 215/323)  
Intro. Biology Lab - TA (BIO 107) 1995-1997 (Fall and Spring)

**University of Maryland, Baltimore County**

<i>Course</i>	<i>Term</i>
Cell Biology Lab - TA (BIOL 303)	Fall 1994
Intro. Biology Lab -TA (BIOL 101)	Fall 1993

**GUEST LECTURES:**

**Auburn University**

<i>Course</i>	<i>Term</i>
Honors Lyceum (HONR 1087)	Spring 2020
Cancer Biology & Genetics (VBMS 7970)	Fall 2019
Honors Lyceum (HONR 1087)	Spring 2016

**COURSE DEVELOPMENT:**

**Auburn University**

	<b>Description</b>
Minerals – Distance (NTRI 7506)	new class offering (Fall 2015)
Methods of Research (NTRI 7050)	redesign (Fall 2015)
Methods of Research – Distance (NTRI 7056)	redesign (Fall 2015)
Mediterranean Diet Study Abroad (NTRI 5380)	new class offering (Spring 2015)
Honors Research Seminar (HONR 3987)	new class offering (Spring 2015)
Nutrition in Disease Prevention (NTRI 5100)	new class offering (Spring 2014)
Nutrition in Disease Prevention (NTRI 6100)	new class offering (Fall 2014)
Minerals (NTRI 7500)	redesign from 2 to 3 credit hours (2014)

**PROFFESIONAL DEVELOPMENT:**

**Instructional**

2019	AU Biggio Center Workshop: Mental Health and College Students: The Professor's Role
2017	AU Biggio Center EASL Academy 1.4: Integration Follow-Up
2017	AU Biggio Center EASL Academy 1.3: Space: the learning frontier
2013	Mid-Semester Small Group Instructional Feedback (NTRI 2007)
2012	AU Biggio Center Seminar: PDS: Concept Mapping for Learning Complex Topics
2012	AU Biggio Center Seminar: Effective Evaluation of Teaching: A Guide for Faculty and Administrators

2012 Mid-Semester Feedback (NTRI 2000)  
2012-present Weekly Online Continuing Education  
[tomorrows-professor-bounces@mailman.stanford.edu](mailto:tomorrows-professor-bounces@mailman.stanford.edu)  
2012 New Faculty Teaching Scholar

**Technical**

2019 Academic Training in Rigor, Reproducibility & Transparency (R2T). CCTS, University of Alabama, Birmingham  
2014 Sable Systems Spirometry Course. Las Vegas, NV  
1999 BIA Basic Training Course. BIACORE AB, Piscataway, NJ

**MENTORING EXPERIENCE:**

**Current Mentees**

<u>Junior Faculty</u>	<u>Current Position</u>
Annie Kirby, Ph.D., R.D., L.D.	Assistant Professor, Edward Via College of Osteopathic Medicine

<u>Graduate Student</u>	<u>Current Position</u>
Roberto Couto (2 <sup>nd</sup> Yr)	MS student, Auburn University
Luoqi Miao (1 <sup>st</sup> Yr)	MS student, Auburn University
Patrick Downing (1 <sup>st</sup> Yr)	MS student, Auburn University
Alexis Roberts (1 <sup>st</sup> Yr)	MS student, Auburn University
Megan Roberts (1 <sup>st</sup> Yr) Co-advisor	PhD student, Auburn University

<u>Undergraduate Students</u>	<u>Position</u>	<u>Institution</u>
Savanah Fowler	Undergraduate Asst.	Auburn University
Beatriz Carmona	Research Fellow	Auburn University
Jenna Goulart	Undergraduate Asst.	Auburn University

**Past Mentees**

<u>Post-doctoral Fellow</u>	<u>Current Position</u>	<u>Current Institution</u>
Jinghai Wu, M.D., Ph.D.	Research Scientist	Ohio State University
Ann Marie O'Neill, Ph.D.	Assistant Professor	Auburn University at Montgomery

<u>PhD Graduate Student</u>	<u>Current Position</u>	<u>Current Institution</u>
Amy Willis, Ph.D., R.D., L.D.	Clinical Dietitian	Fort Washington Medical Center, MD
Yuwen Luo, Ph.D.	Maternity leave	N/A

Lauren Woodie, Ph.D.	Postdoctoral Fellow	Univ. of Penn Medical School
Bulbul Ahmed, Ph.D.	Postdoctoral Fellow	TBD

Masters Graduate Student

Michael Wayne  
Mary Rose Bottcher  
Makenzie Callahan

Current Position

Research Asst.  
Clinical Dietitian  
PhD student

Current Institution

UT Southwestern  
Dallas, TX  
Univ. of Alabama,  
Birmingham  
Montgomery, AL  
Everett, WA

Erin Landgrebe  
Jenna Plummer

Clinical Dietitian  
Food & Nutrition  
Supervisor

Davenport, Florida  
New Orleans Saints/Pelicans  
University of Houston  
Santa Rosa, CA  
TBD

Shane Braden  
Jennifer Goldstein  
Caroline Knight  
Sari Bornstein  
Megan Culbreth

Clinical Dietitian  
Sports Nutrition Fellow  
Dietetic Intern  
Clinical Dietitian  
Clinical Dietitian

Internal Medicine Residents

Matthew P. Gilbert, D.O., M.P.H.  
Niyutchai Chaithongdi, M.D.  
Petpring Prajuabpansri, M.D.  
Tepsiri Chongkraitanakul, M.D.  
Atipon Kangwanpornsiri, M.D.  
Potjana Jitawatannarat, M.D.  
Saleem Chowdhry, MBBS  
Promporn Suksaranjit, M.D.  
Quanhathai Kaewpoowat, M.D.  
Nischala Ammannagari, MBBS

Current Position

Attending - Endo  
Attending - Endo  
Attending - Internal  
Attending - Neph  
Attending - Neph  
Fellow - Hem/Oncol  
Fellow - GI  
Fellow - Cardio  
Fellow - ID  
Fellow - Hem/Oncol

Current Institution

University of Vermont  
Sanford Clinic, ND  
Little Rock, AR  
Boston, MA  
San Luis Obispo, CA  
Roswell Park/SUNY, Buffalo  
Case Western Univ.  
University of Utah  
University of Texas  
Roswell Park/SUNY, Buffalo

Surgery Resident

Erin Gillaspie, M.D.

Current Position

Attending - Surgery

Current Institution

Vanderbilt University

Undergraduate Students

Hulkar Mamayusupova  
Adam Wood  
Jason Henderson  
Brian Reis  
Kristen Gue  
Julia Bottcher  
Sarah Bode  
Alex Cool  
Griffin Russell  
Jamie Reece  
Katie Nahay

Position

Senior Thesis student  
Senior Thesis student  
Senior Thesis student  
Summer Student  
Independent Study  
Independent Study  
Independent Study  
Summer Research Fellow  
Summer Research Fellow  
Research Fellow  
Research Fellow

Institution

Hartwick College  
Hartwick College  
Hartwick College  
Harvard University  
Auburn University

Michael W. Greene

Josef Jackson	Undergraduate Asst.	Auburn University
Morgan Satterfield	Undergraduate Asst.	Auburn University
Delaney Reynolds	Undergraduate Asst.	Auburn University
Claire Neinast	Undergraduate Asst.	Auburn University
Patrick Downing	Undergraduate Asst.	Auburn University
James Harris	Undergraduate Asst.	Auburn University
Olivia Jackson	Undergraduate Asst.	Auburn University
Peyton Kuhlert	Research Fellow	Auburn University
Will Haynes	Undergraduate Asst.	Auburn University

<u>High School Students</u>	<u>Position</u>	<u>Institution</u>
Allison Chapple	Summer Student	Nevada Union HS, CA
Cassidy Griger	Summer Student	Cooperstown HS, NY
Erik Mebust	Summer Student	Cooperstown HS, NY

#### **AUBURN UNIVERSITY GRADUATE THESIS/DISSERTATION COMMITTEE EXPERIENCE:**

##### **PhD Candidates**

<u>Student</u>	<u>Department</u>	<u>Year Graduated</u>	<u>Role</u>
Megan Phillips	Nutrition	NA	Committee Member
Megan Roberts	Biology	N/A	Co-Major Professor
Kayleen McCafferty	Anatomy, Physiology	N/A	Committee Member
Euitaek Yang	Pharmacy, Drug	N/A	Committee Member
Iman Hassani	Chem. Engineering	N/A	Committee Member
Haley Hallowell	Biology	N/A	Committee Member
Robert Johnson	Biology	2020	Committee Member
Gisela Martinez Romero	Pathobiology	2020	University Reader
Zhi-Shuai Hou	Anatomy, Physiology	2020	University Reader
Keah Higgins	Biology	2020	University Reader
Amanda Gross	Pathobiology	2020	University Reader
Bulbul Ahmed	Nutrition	2019	Major Professor
Lauren Woodie	Nutrition	2019	Major Professor
Han Fang	Anatomy, Physiology	2019	Committee Member
Amy Willis	Nutrition	2018	Major Professor
Yuwen Luo	Nutrition	2016	Major Professor
Zhao Yang	Anatomy, Physiology	2016	Committee Member
Farruk Kabir	Pathobiology	2014	University Reader
Allison M. Bradbury	Pathobiology	2014	University Reader
Nootan Bhattarai	Chemistry	2013	University Reader

##### **MS Candidates (Thesis)**

<u>Student</u>	<u>Department</u>	<u>Year Graduated</u>	<u>Role</u>
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Caroline Knight	Nutrition	2019	Major Professor
Maria Victoria Salazar	Nutrition	2017	Committee Member
Mary Rose Bottcher	Nutrition	2016	Major Professor
Michelle Hoffman	Pathobiology	2016	Committee Member
Michael Wayne	Nutrition	2015	Major Professor

**MS Candidates (Non-Thesis)**

<u>Student</u>	<u>Department</u>	<u>Year Graduated</u>	<u>Role</u>
Patrick Downing	Nutrition	N/A	Major Professor
Alexis Roberts	Nutrition	N/A	Major Professor
Luoqi Miao	Nutrition	N/A	Major Professor
Kara McCracken	Nutrition	NA	Committee Member
Roberto Couto	Nutrition	2020	Major Professor
Megan Culbreth	Nutrition	2020	Major Professor
Jill Tharp	Nutrition	2020	Committee Member
Katie Fields	Nutrition	2020	Committee Member
Sari Bornstein	Nutrition	2019	Major Professor
Sarah Cooper	Nutrition	2019	Committee Member
Lily Zandieh	Nutrition	2019	Committee Member
Camille Harris	Nutrition	2018	Major Professor
Kristen Isacson	Nutrition	2018	Committee Member
Shane Braden	Nutrition	2018	Major Professor
Jennifer Goldstein	Nutrition	2018	Major Professor
Jenna Plummer	Nutrition	2018	Major Professor
Mallori Roberts	Nutrition	2018	Committee Member
Makenzie Callahan	Nutrition	2017	Major Professor
Erin Landgrebe	Nutrition	2017	Major Professor
Lauren Lynch	Nutrition	2017	Committee Member
Talia Tornabene	Nutrition	2017	Committee Member
Kathryn Heidt	Nutrition	2016	Committee Member
Carly J. Moss	Nutrition	2013	Committee Member

**AUBURN UNIVERSITY THESES AND DISSERTATIONS AS MAJOR PROFESSOR:**

<u>Student</u>	<u>Degree</u>	<u>Year Graduated</u>	<u>Title</u>
Lauren Woodie	Ph.D.	2019	Examining the metabolic, physiologic and chronobiologic effects of Western diet-induced obesity on cognitive impairment in mice
Bulbul Ahmed	Ph.D.	2019	Development and characterization of paired in vivo and in vitro models to

			examine obesity-linked colorectal cancer
Caroline Knight	M.S.	2019	The Mediterranean diet in the Stroke Belt: a cross-sectional study on adherence and perceived knowledge, barriers, and benefits
Amy Willis, RD	Ph.D.	2018	The Evaluation of a Pilot Theory-Based Nutrition Intervention Promoting a Mediterranean Diet for the Reduction of Cardiovascular Disease Risk Factors in a High-Risk Population of the Southeastern United States: The Healthy Hearts Program
Yuwen Luo	Ph.D.	2016	The Role of Sugar-sweetened Water in the Progression of Nonalcoholic Fatty Liver Disease
Mary Rose Bottcher	M.S.	2016	Mediterranean Diet Adherence in the Southeast United States: Validation of a Field-Based Survey Instrument and the Impact of Nutrition Knowledge
Michael Wayne	M.S.	2015	Meal Timing & Its Effects on the Pathogenesis of Metabolic Syndrome

**AUBURN UNIVERSITY HONOR'S THESES AS MENTOR:**

<u>Student</u>	<u>Year Graduated</u>	<u>Title</u>
Claire Neinast	2018	Time Restricted Consumption of High Fructose Corn Syrup in Preventing Metabolic Dysfunction
Jamie Reece	2017	Role of Sugary Water Consumption in Adipose Gene Expression

**STUDENT OR MENTEE ACHIEVEMENTS AND RESEARCH SUPPORT:**

- 2020 Auburn News Student Research Spotlight on Beatriz Carmona. The feature was titled 'Studying the Physiological Impacts of Obesity' on the Auburn University homepage. Role: Mentor.  
[https://cws.auburn.edu/ovpr/pm/researchsymposia/student/2020Spot\\_BCarmona?nlan](https://cws.auburn.edu/ovpr/pm/researchsymposia/student/2020Spot_BCarmona?nlan)
- 2020 Auburn University This is Research. Undergraduate Student Poster Presentation. 3<sup>rd</sup> place prize awarded to Beatriz Carmona. Role: Mentor.
- 2020 Auburn University Journal of Undergraduate Scholarship (AUJUS) Research Highlight publication. Awarded to Beatriz Carmona. Citation: Beatriz Carmona, Michael Greene, and Lauren Woodie. (2020) Circadian Disruption of Core Clock Genes Bmal1, Revb- $\alpha$ , Per2, and Cry1 in Adipose Tissue Due to Western Diet-Induced Obesity. AUJUS (8) pxx-xx
- 2020 Auburn University Fred and Charlene Kam Endowed Fund for Research Excellence in Nutrition-Dietetics. Awarded to Jenna Goulart. Role: Mentor. Total Award: \$1500. Project Funds: \$1500
- 2019 Auburn University CNSi Graduate Research Fellowship. Awarded to Lauren Woodie. Role: Mentor. Total Award: \$2,500
- 2019 June GSC Travel fellowship. Awarded to Lauren Woodie. Role: Mentor. Total Award: \$250.
- 2019 Auburn University Malone-Zallen Graduate Research Fellowship. Awarded to Lauren Woodie. Role: Mentor. Total Award: \$1535. Project Funds: \$1535.
- 2019 Auburn University This is Research. Graduate Student Oral Presentation. 1<sup>st</sup> place prize awarded to Lauren Woodie. Role: Mentor.
- 2019 Auburn University This is Research. Undergraduate Student Poster Presentation. 2<sup>nd</sup> place prize awarded to Peyton Kuhlers. Role: Mentor.
- 2019 Auburn University Undergraduate Research Fellowship. Awarded to Beatriz Carmona. Role: Mentor. Total Award: \$3000. Project Funds: \$750.
- 2019 Auburn University Fred and Charlene Kam Endowed Fund for Research Excellence in Nutrition-Dietetics. Awarded to Beatriz Carmona. Role: Mentor. Total Award: \$1500. Project Funds: \$1500.
- 2018 Auburn University Journal of Undergraduate Scholarship (AUJUS) Research Highlight publication. Awarded to Peyton Kuhlers. Citation: Peyton Kuhlers and Michael Greene. (2019) Development of an in vitro model to evaluate novel genes regulating inflammation and fibrosis. AUJUS (7) p65-66

- 2018 Auburn University CNSi Graduate Research Fellowship. Awarded to Lauren Woodie. Role: Mentor. Total Award: \$5,000.
- 2018 June GSC Travel fellowship. Awarded to Lauren Woodie. Role: Mentor. Total Award: \$250.
- 2018 Auburn University Undergraduate Research Fellowship. Awarded to Peyton Kuhlers. Role: Mentor. Total Award: \$3000.
- 2018 Three Minute Thesis Competition at the annual meeting of the Conference of *Southern* Graduate Schools Competition (Grand Prize Winner). Awarded to Lauren Woodie. Role: Mentor.
- 2018 University of Alabama, Birmingham CCTS Clinical and Translation Science Training Program participant. Awarded to Annie Kirby. Role: Mentor.
- 2018 Auburn University Malone-Zallen Graduate Research Fellowship. Awarded to Bulbul Ahmed. Role: Mentor. Total Award: \$2000. Project Funds: \$2000.
- 2018 Auburn University Haggard Family Annual Award in Nutrition and Dietetics. Awarded to Olivia Jackson. Role: Mentor. Total Award: \$750. Project Funds: \$750.
- 2017 Three Minute Thesis Competition at Auburn University, University Competition (1<sup>st</sup> Place). Awarded to Lauren Woodie. Role: Mentor.
- 2017 Three Minute Thesis at Auburn University, College of Human Sciences Competition (1<sup>st</sup> Place). Awarded to Lauren Woodie. Role: Mentor.
- 2017 Boshell Diabetes and Metabolic Diseases 8th Annual Research Day at Auburn University Poster Competition Award (2<sup>nd</sup> Place). Awarded to Lauren Woodie. Role: Mentor.
- 2016 Boshell Diabetes and Metabolic Diseases 8th Annual Research Day at Auburn University Poster Competition Award (3<sup>rd</sup> Place). Awarded to Lauren Woodie. Role: Mentor.
- 2016 Auburn University Honors Thesis. *Role of Sugary Water Consumption in Adipose Gene Expression*. Awarded to Jami Reece. Role: Mentor.
- 2016 Auburn University International Graduate Student Achievement Award. Awarded to Yuwen Luo. Role: Mentor.
- 2016 Auburn University Malone-Zallen Graduate Research Fellowship. Awarded to Amy Willis. Role: Mentor. Total Award: \$4500. Project Funds: \$4500.

- 2016 Auburn University Haggard Family Annual Award in Nutrition and Dietetics. Awarded to Morgan Satterfield. Role: Mentor. Total Award: \$1000. Project Funds: \$1000.
- 2016 Boshell Diabetes and Metabolic Diseases 9th Annual Research Day at Auburn University. 2<sup>nd</sup> place prize for best graduate student presentation awarded to Isabelle Crouch. Note: Isabelle Crouch competed in the graduate student category even though she is an undergraduate student. Role: Mentor.
- 2016 Boshell Diabetes and Metabolic Diseases 9th Annual Research Day at Auburn University. 2<sup>nd</sup> place prize for best graduate student poster awarded to Lauren Woodie. Role: Mentor.
- 2015 Auburn University Haggard Family Annual Award in Nutrition and Dietetics. Awarded to Katie Nahay. Role: Mentor. Total Award: \$500. Project Funds: \$500.
- 2015 Auburn University Malone-Zallen Graduate Research Fellowship. Awarded to Yuwen Luo. Role: Mentor. Total Award: \$6000. Project Funds: \$6000.
- 2015 Auburn University Cellular and Molecular Biology Undergraduate Research Fellowship. Awarded to Griffin Russell. Role: Mentor. Total Award: \$4000. Project Funds: \$2000.
- 2015 Auburn University Undergraduate Research Fellowship. Awarded to Jamie Reece. Role: Mentor. Total Award: \$3000. Project Funds: \$2000.
- 2014 Auburn University Undergraduate Research Fellowship. Awarded to Alex Cool. Role: Mentor. Total Award: \$2000. Project Funds: \$2000.
- 2013 American College of Physicians, New York Chapter Meeting Abstract/Poster Competition Award (1<sup>st</sup> Place). Awarded to Nischala Ammannagari, MBBS. Role: Mentor
- 2012 E.D. Thomas Outstanding Research Presentation Award at the Bassett Medical Center (1<sup>st</sup> Place). Awarded to Erin Gillaspie, M.D. Role: Mentor
- 2012 American College of Physicians, New York Chapter Meeting Abstract/Poster Competition Award (2<sup>st</sup> Place). Awarded to Quanhathai Kaewpoowat, M.D. Role: Mentor
- 2012 E.D. Thomas Medical Resident Fellowship. Awarded to Quanhathai Kaewpoowat, M.D. Role: Mentor. Total Award: \$12,075. Project Funds: \$12,075.
- 2012 E.D. Thomas Medical Resident Fellowship. Awarded to Promporn Suksaranjit, M.D. Role: Mentor. Total Award: \$11,180. Project Funds: \$11,180.
- 2012 E.D. Thomas Medical Resident Fellowship. Awarded to Nischala Ammannagari, MBBS. Role: Mentor. Total Award: \$10,812. Project Funds: \$10,812.

- 2011 American College of Physicians, National Meeting Abstract/Poster Competition Award (1<sup>st</sup> Place). Awarded to Atipon Kangwanpornisiri, M.D. Role: Mentor
- 2010 E.D. Thomas Medical Resident Fellowship. Awarded to Erin Gillaspie, M.D. Role: Mentor. Total Award: \$25,000. Project Funds: \$25,000.
- 2010 E.D. Thomas Medical Resident Fellowship. Awarded to Potjana Jitawatanarat, M.D. Role: Mentor. Total Award: \$13,200. Project Funds: \$13,200.
- 2009 E.D. Thomas Outstanding Research Presentation Award at the Bassett Medical Center (1<sup>st</sup> Place). Awarded to Tepsiri Chongkraitatanakul, M.D. Role: Mentor
- 2009 E.D. Thomas Medical Resident Fellowship. Awarded to Tatpong Chit-ua-aree, M.D. Role: Mentor. Total Award: \$24,552. Project Funds: \$24,552.
- 2009 E.D. Thomas Medical Resident Fellowship. Awarded to Saleem Chowdhry, MBBS. Role: Mentor. Total Award: \$24,652. Project Funds: \$13,474.
- 2009 American College of Physicians, National Meeting Abstract/Poster Competition Award (Best Poster Prize). Awarded to Tepsiri Chongkraitatanakul M.D. Role: Mentor
- 2007 E.D. Thomas Medical Resident Fellowship. Awarded to Tepsiri Chongkraitatanakul M.D. Role: Mentor. Total Award: \$24,964. Project Funds: \$12,839.
- 2007 E.D. Thomas Medical Resident Fellowship. Awarded to Niyutchai Chaithongdi, M.D. Role: Mentor. Total Award: \$24,955. Project Funds: \$12,830.
- 2005 E.D. Thomas Medical Resident Fellowship. Awarded to Mathew Gilbert, DO, MPH. Role: Mentor. Total Award: \$24,994. Project Funds: \$8,800.

## **PAPERS AND POSTERS PRESENTED:**

### **Published Meeting Abstracts**

1. Woodie, L.N., Johnson, R., Ahmed, B., and Greene, M.W. Memories of Rhythms Past: Evidence for Hippocampal Core Clock Disruptions in a Murine Model of Western Diet-induced Obesity. American Society for Nutrition's NUTRITION 2019, Baltimore, MD. *Curr Dev Nutr.* 2019 Jun 13;3 (Suppl 1)

2. Johnson R, Olatunde A, Woodie L, Greene M, Schwartz E. The Metabolic Phenotype Associated with Mounting an Immune Response to a Systemic Infection of *Listeria Monocytogenes* (FS12-07-19). American Society for Nutrition's NUTRITION 2019, Baltimore, MD. *Curr Dev Nutr.* 2019 Jun 13;3 (Suppl 1)
3. I Hassani, B Anbiah, B Ahmed, NL Habbit, MW Greene, EA Lipke. In vitro recapitulation of in vivo obesity-promoted colorectal cancer growth using a patient-derived xenograft engineered tumor model, 2019 Proceedings of the AACR
4. B Anbiah, I Hassani, B Ahmed, NL Habbit, MW Greene, B Prabhakarpanthian, EA Lipke. Patient derived xenograft colorectal cancer in a micro-vascularized tumor on a microfluidic chip, 2019 Proceedings of the AACR.
5. I Hassani, B Anbiah, B Ahmed, NL Habbit, MW Greene, EA Lipke. 3D Engineered Patient-Derived Xenograft Tumors to Recapitulate the Obese Colorectal Cancer Tumor Microenvironment, Transactions of the 42st Annual Meeting of the Society For Biomaterials 2019
6. I Hassani, B Anbiah, B Ahmed, NL Habbit, MW Greene, EA Lipke. Three-Dimensional Engineered Tumor Tissues Using Patient-Derived Colorectal Cancer Xenografts, Transactions of the Society for Biomaterials 2018
7. I Hassani, B Anbiah, B Ahmed, NL Habbit, MW Greene, EA Lipke. Engineered Colorectal Cancer Model Employing Patient-Derived Xenografts Mimics In Vivo Tumor Growth. Biomedical Engineering Society 2018 Annual Meeting, Atlanta, GA, October 2018
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23. Greene, M.W., Burrington, C.M. and Ruhoff, M.S. (2007). FFA and TNF  $\alpha$ -Mediated PKC  $\delta$  Activation in Primary Rat Hepatocytes, *Diabetes*. 56.
24. Greene, M.W. and Ruhoff, M.S. (2005). Modulation of IRS-1 PH and PTB Domain Function by Phosphorylation, *Diabetes*. 54, A322.
25. Greene, M.W. and Roth, R.A. (2002). Modulation of Irs-1 Tyrosine Phosphorylation by Pkc $\delta$ , *Diabetes*. 51, A56.
26. Greene, M.W. and Garofalo, R.S. (2000). IRS-2 Tyrosine Phosphorylation by the Insulin Receptor Kinase Is Modulated by Serine Phosphorylation In Vitro by Multiple Ser/Thr Kinases, *Diabetes*. 49, A447.
27. Greene, M.W. (1998). Cloning and Characterization of Teleost Insulin Receptor Family Members: Expression of Insulin and IGF Type I Receptor Messenger RNAs, *Marine Aquaculture: Emerging Technologies and Global Opportunities*. 24.

### **Other Presentations**

1. Haynes, W., Woodie, L.N., Neinast, C.E., Ahmed, B., Graff, E.C., and Greene, M.W. (2019). Restricting Liquid Sugar to the First Six Hours of the Active Phase Ameliorates the Detrimental Physio-metabolic Effects of Liquid Sugar Consumption in Mice. *Rhythms in Southeast Region RISER 2019, Atlanta, GA – June 2019*.
2. Woodie, L.N., Johnson, R., Ahmed, B., and Greene, M.W. (2019). Memories of Rhythms Past: Evidence for Hippocampal Core Clock Disruptions in a Murine Model of Western Diet-induced Obesity. *Rhythms in Southeast Region RISER 2019, Atlanta, GA – June 2019*.
3. Greene, M.W., Knight, C., Jackson, O., Rahman, I., Burnett, D., and Fruge, A. (2019). The Mediterranean Diet in the Stroke Belt: A Cross-sectional Study on Adherence and Perceived Knowledge, Barriers, and Benefits. *American Society for Nutrition's NUTRITION 2019, Baltimore, MD – June 2019*.
4. Willis, A., Braxton-Lloyd, K., and Greene, M.W. (2019). An Experimental Study of a Mediterranean-style Diet Supplemented with Nuts and Extra-virgin Olive Oil for

- Cardiovascular Disease Risk Reduction: The Healthy Hearts Program. American Society for Nutrition's NUTRITION 2019, Baltimore, MD – June 2019.
5. Kuhlers, P. Woodie, L.N., Ahmed, B., and Greene, M.W. (2019). Validation of an in Vitro Non-alcoholic Steatohepatitis Cas9 Model. American Society for Nutrition's NUTRITION 2019, Baltimore, MD – June 2019.
  6. Woodie, L.N., Higgins, K., Hallowell, H., Schwartz, E., and Greene, M.W. (2018). Temporal Evaluation of Metabolism and the Fecal Microbiome in a Mouse Model of Diet-Induced Obesity. American Society for Nutrition's NUTRITION 2018, Boston, MA – June 2018.
  7. Obesity stimulates tumor growth in a novel paired in vitro and in vivo model using patient-derived colorectal cancer xenografts. AACR Special Conference on Obesity and Cancer: Mechanisms Underlying Etiology and Outcomes, Austin, TX – January 2018.
  8. Nutrition Knowledge and Mediterranean Diet Adherence: Validation of a Field Based Survey Instrument. Boshell Diabetes and Metabolic Diseases 8th Annual Research Day at Auburn University. Auburn, Alabama – March 2017 (Oral Presenter)
  9. Effects of the High Fat Western Diet on Microbial and Viral Populations of the Murine Intestinal Microbiome. Boshell Diabetes and Metabolic Diseases 8th Annual Research Day at Auburn University. Auburn, Alabama – March 2017 (Graduate student Oral Presenter)
  10. Development of Education Program for Clinical Study Addressing Prediabetic and High Risk Cardiovascular Disease Participants. Boshell Diabetes and Metabolic Diseases 8th Annual Research Day at Auburn University. Auburn, Alabama – March 2017 (Graduate student Oral Presenter)
  11. Role of Western diet in maladies of the gut, liver, adipose tissue, and brain. Boshell Diabetes and Metabolic Diseases 9th Annual Research Day at Auburn University. Auburn, Alabama – February 2016 (Oral Presenter).
  12. How I Came to Study Sugar. Auburn Talks. This is Research: Faculty Symposium at Auburn University. Auburn, Alabama – September 2015 (Oral Presenter).
  13. Genome-wide transcriptome analysis of liver and adipose tissue in a western diet-induced model of NAFLD. Boshell Diabetes and Metabolic Diseases 8th Annual Research Day at Auburn University. Auburn, Alabama – February 2015 (Oral Presenter).
  14. Development and characterization of a novel congenic rat strain for obesity and cancer research. Boshell Diabetes and Metabolic Diseases 6th Annual Research Day at Auburn University. Auburn, Alabama – February 2014 (Oral Presenter).

15. Development and characterization of a novel congenic rat strain for obesity and cancer research. *Metabolic Signaling & Disease: from cell to organism*. Cold Spring Harbor Laboratory, NY – August 2013.
16. Role of Fructose/Sucrose in Fatty Liver Disease Progression. Boshell Diabetes and Metabolic Diseases 6th Annual Research Day at Auburn University. Auburn, Alabama – February 2013 (Oral Presenter).
17. Obesity impairs the efficacy of colon cancer treatment in mice. American College of Physicians, New York Chapter Meeting. Rye Brook, New York - February 2013. **(Resident awarded a First prize in the Abstract Competition)**
18. Role of a High Carbohydrate Diet in Fatty Liver Disease Progression. American College of Physicians Annual Meeting. Albany, New York – Aug 2012. **(Resident awarded a Second prize in the Abstract Competition).**
19. Breast cancer growth and activation of insulin/IGF-1 signaling by circadian disruption. XI<sup>th</sup> International Symposium on Insulin Receptors and Insulin Action, Naples, Italy – Oct 2010 (oral presenter).
20. PKC $\delta$  and metabolic disease. XI<sup>th</sup> International Symposium on Insulin Receptors and Insulin Action, Naples, Italy – Oct 2010.
21. PKC $\delta$  activation in vivo and in vitro in experimental models of nonalcoholic steatohepatitis. American College of Physicians Annual Meeting. Philadelphia, Pennsylvania – Apr 2009. **(Resident awarded a Best Poster prize in National Abstract Competition)**
22. Role of PKC $\delta$  in high fat diet-induced insulin resistance. American Diabetes Association 69<sup>th</sup> Scientific Sessions, New Orleans, Louisiana – Jun 2009. (Late-Breaking Abstract)
23. Role of PKC $\delta$  in TNF $\alpha$ -induced insulin resistance. X<sup>th</sup> International Symposium on Insulin Receptors and Insulin Action, Stockholm, Sweden – May 2007 (oral presenter).
24. Knockdown of PKC $\delta$  blocks TNF $\alpha$ -mediated inhibition of insulin signaling. American Diabetes Association 66<sup>th</sup> Scientific Sessions, Washington, DC – Jun 2006 (Late-Breaking Abstract).
25. Expression of growth hormone, prolactin, somatolactin, IGF-I and IGF-II genes in rainbow trout (*Oncorhynchus mykiss*). 2nd IUBS Toronto Symposium “Advances in the Molecular Endocrinology of Fish”, Toronto, Canada – May 1997.

26. Insulin-like growth factor mRNA detection in the diffuse pancreatic tissue of rainbow trout by *in situ* hybridization using digoxigenin labeled cRNA probes. 3<sup>rd</sup> International Symposium on Fish Endocrinology, Hakodaido, Japan – May 1996.
27. Expression of growth hormone and insulin-like growth factor genes in rainbow trout. 3<sup>rd</sup> International Symposium on Fish Endocrinology, Hakodaido, Japan – May 1996.
28. Insulin-like growth factor mRNA detection in rainbow trout tissue by *in situ* hybridization using digoxigenin-labeled cRNA probes. 55<sup>th</sup> Annual Endocrine Society Meeting, Washington, DC – Jun 1995.
29. The interaction toxicity of thiram and ethylene glycol: toxicological mechanisms in the fathead minnow (*Pimephales promelas*). Pacific Northwest Chapter of the Society of Environmental Toxicology and Chemistry, Bellingham, Washington – Jun 1992.
30. Characterization of neoplastic transformation of cells involved in Damsel fish Neurofibromatosis utilizing *in vitro* techniques. American Fisheries Society/Fish Health Section and Western Fish Disease Conference, Newport, Oregon – Aug 1991 (co-presenter).

**OUTREACH PRESENTATIONS:**

1. The Mediterranean diet. The Women's Philanthropy Board Virtual Roundtable, Auburn University - July 2020
2. Blue Zones. Lunch and Learn. Tiger Zone Village Dining, Auburn University - Sept 2018
3. The Mediterranean diet. Lunch and Learn. Tiger Zone Village Dining, Auburn University - Sept 2017

**OUTREACH PANEL DISCUSSIONS:**

1. Topic: Trashed (2012 Documentary). Office of Sustainability. Langdon Hall, Auburn University - Oct 2018
2. Topic: United Nations Sustainable Development Goals. Gustolab Institute, Rome, Italy - Jun 2018

**RESEARCH SUPPORT:**

*Current*

1. Title: Obesity-linked non-alcoholic fatty liver disease progression and colorectal cancer  
Agency or Foundation: Alabama Agricultural Experiment Station, USDA Hatch Funding Program  
Funding Mechanism: Hatch Grant  
Project Director: Michael Greene, Ph.D.  
Funding Period: Oct 2018 – Sep 2023; Award: \$70,000

*Pending*

1. Title: Engineered Colon Cancer Tissue to Examine the Impact of the Obese Microenvironment  
Agency: National Institutes of Health (NIH)  
Funding Mechanism: R01  
Project Director: Elizabeth Lipke, Ph.D./Michael Greene, Ph.D.  
Funding Period: April 2021 –March 2026; Award: \$2,000,000  
Role: co- Principal Investigator
2. Title: Patient-derived Colorectal Cancer Tumor Microtissues to Advance Testing of Therapeutics  
Agency: Department of Defense (DoD)  
Funding Mechanism: CDMRP Peer Reviewed Cancer Research Program (PRCRP) Idea Award  
Project Director: Elizabeth Lipke, Ph.D./Michael Greene, Ph.D.  
Funding Period: Apr 2021 – March 2024; Award: \$500,000  
Role: co- Principal Investigator
3. Title: The Impact of Macronutrient Cycling on the Gastrointestinal Microbiome in the Recovery of Metabolic Flexibility in a Western Diet Induced Obese Mouse Model  
Agency or Foundation: Edward Via College of Osteopathic Medicine  
Project Director: Annie Kirby, Ph.D., R.D.  
Funding Mechanism: Research Eureka Accelerator Program  
Funding Period: July 2020 – June 2022; Award: \$42,130, AU Subcontract  
Role: Co- Investigator

*Completed*

1. Title: Patient-Derived Tumor Models to Evaluate the Obesity-Linked Colon Cancer Microenvironment.  
Agency or Foundation: National Institutes of Health (NIH)  
Funding Mechanism: CCTS Network Interdisciplinary Pilot Program  
Project Director: Michael Greene, Ph.D./ Elizabeth Lipke, Ph.D.  
Funding Period: May 2019 – April 2020; Award: \$60,000  
Role: co-Principal Investigator (co-PI: Elizabeth Lipke, Ph.D., Auburn University)
  
2. Title: Impact of a Western diet on the circadian clock and hippocampal functioning  
Agency or Foundation: Alabama Agricultural Experiment Station, USDA Hatch Funding Program  
Project Director: Michael Greene, Ph.D.  
Funding Mechanism: SEED Grant  
Funding Period: October 2017 – September 2019; Award: \$50,000  
Role: Principal Investigator
  
3. Title: Obesity and Disruption of the Circadian Clock  
Funding Organization: Auburn University Honors College  
Project Director: Michael Greene, Ph.D.  
Funding Period: Jan 2019-Dec 2019; Award: \$10,000  
Role: Principal Investigator
  
4. Title: The Effect of Macronutrient Cycling on Metabolic Flexibility in the Presence of Excess Adiposity  
Agency or Foundation: Edward Via College of Osteopathic Medicine  
Project Director: Annie Kirby, Ph.D., R.D.  
Funding Mechanism: Research Eureka Accelerator Program  
Funding Period: July 2018 – June 2019; Award: \$41,358  
Role: Co- Investigator
  
5. Title: Role of sugary in obesity-linked non-alcoholic fatty liver disease progression  
Agency or Foundation: Alabama Agricultural Experiment Station, USDA Hatch Funding Program

Funding Mechanism: Hatch Grant  
Project Director: Michael Greene, Ph.D.  
Funding Period: Oct 2013 – Sep 2018; Award: \$70,000  
Role: Principal Investigator

6. Title: Restricting high fructose corn syrup consumption in the active phase to improve metabolic health  
Funding Organization: Auburn University Honors College  
Project Director: Michael Greene, Ph.D.  
Funding Period: Oct 2017-Sept 2018; Award: \$10,000  
Role: Principal Investigator
7. Title: Microenvironmental Stimulation of Obesity-linked and Health Disparity-Associated Patient-derived Colon Cancer Tumor Growth  
Agency or Foundation: Auburn University Research Initiative in Cancer (AURIC)  
Funding Mechanism: Major Program Grant  
Project Director: Michael Greene, Ph.D./ Elizabeth Lipke, Ph.D.  
Funding Period: Oct 2015 – Sep 2017; Award: \$199,973  
Role: co-Principal Investigator (co-PI: Elizabeth Lipke, Ph.D., Auburn University)
8. Title: *In vivo* selection of RNA aptamers for CRC detection and therapy  
Agency or Foundation: Auburn University Research Initiative in Cancer (AURIC)  
Funding Mechanism: Seed Grant  
Project Director: Jacek Wower, Ph.D.  
Funding Period: Oct 2016 – Sept 2017; Requested Direct Costs: \$20,000  
Role: co-Principal Investigator
9. Title: Meal timing to improve cognitive deficits  
Funding Organization: Auburn University Honors College  
Project Director: Michael Greene, Ph.D.  
Funding Period: Oct 2016-Sept 2017; Award: \$10,000  
Role: Principal Investigator
10. Title: AAES Research Support Application  
Agency or Foundation: Alabama Agricultural Experiment Station, USDA Hatch Funding Program  
Project Director: Michael Greene, Ph.D.  
Funding Mechanism: Equipment Grant

Funding Period: May 2016 – April 2017; Award: \$18,744

Role: Principal Investigator

11. Title: Bacteriophage as a regulator of gut microbiome in obesity  
Agency or Foundation: Auburn University Intramural Grants Program  
Funding Mechanism: Good to Great Grant  
Project Director: Elizabeth Schwartz, Ph.D.  
Funding Period: Dec 2015 – Nov 2016; Award: \$41,000  
Role: Co - Investigator
  
12. Title: Mediterranean Diet Study Abroad in Italy  
Funding Organization: Auburn University College of Human Sciences Study Abroad Grant Program  
Project Director: Michael Greene, Ph.D.  
Funding Period: May 2015-June 2015; Award: \$5,000  
Role: Principal Investigator
  
13. Title: Role of sugary drinks in the development of obesity  
Funding Organization: Auburn University Honors College  
Project Director: Michael Greene, Ph.D.  
Funding Period: Jan 2015-May 2015; Award: \$10,000  
Role: Principal Investigator
  
14. Title: Metabolic cages for cancer, drug, and metabolic disease research  
Agency or Foundation: Auburn University Research Initiative in Cancer and Auburn University Intramural Grants Program  
Funding Mechanism: Level 4 IGP  
Project Director: Michael Greene, Ph.D.  
Funding Period: March 2014; Award: \$182,078  
Role: co-Principal Investigator (co PI: Robert Judd, Ph.D.)
  
15. Title: The mechanistic basis for improved metabolic health in females following lactation  
Agency or Foundation: National Institutes of Health (NIH)  
Funding Mechanism: NIH R03  
Project Director: Wendy Hood, Ph.D.  
Funding Period: June 2014; Award: \$50,000  
Role: Co – Investigator

16. Title: RNA profiling to determine the role of sugar in obesity-linked non-alcoholic fatty liver disease progression  
Funding Organization: Alabama Agricultural Experiment Station, USDA Hatch Funding Program – Young Investigator Research Support Program  
Project Director: Greene, Michael W.  
Years Funded: Oct 2013-Sept 2015; Award: \$50,000  
Role: Principal Investigator
  
17. Title: Orthotopic Models of Human Colon Cancer  
Funding Organization: Auburn University Research Initiative in Cancer (AURIC)  
Project Director: Greene, Michael W.  
Years Funded: May 2012-Apr 2013; Award: \$20,000  
Role: Principal Investigator
  
18. Project Title: PKC activation and inhibition of VLDL export defines a mechanism for non-alcoholic fatty liver disease: Reversal of hepatic steatosis by selective inhibition of PKC  
Funding Organization: National Institutes of Health (NIH), CTSA: Pilot Collaborative Translational and Clinical Sciences Award  
Project Director: Greene, Michael W.  
Years Funded: Jul 2011-Jun 2012; Award: \$50,000  
Role: Co - Principal Investigator
  
19. Project Title: Melatonin Supplementation in Complementary Breast Cancer Prevention  
Funding Organization: National Institutes of Health, National Cancer Institute  
Project Director: Blask, David E.  
Years Funded: Apr 2008-Mar 2011; Award: \$162,596  
Role: Co - Investigator
  
20. Project Title: Animal Facility Dark-Phase Light Contamination: Impact on Human Cancer Metabolism  
Funding Organization: Association for Assessment and Accreditation of Laboratory Animal Care  
Project Director: Dauchy, Robert T.  
Years Funded: Jul 2007-Jun 2008; Award: \$24,949  
Role: Co - Investigator
  
21. Project Title: IRS-1 Membrane Localization and Phosphoinositide Binding Mutants  
Funding Organization: National Diabetes Trust Foundation

*Michael W. Greene*

Project Director: Greene, Michael W.

Years Funded: Jul 2004-Jun 2005; Award: \$16,700

Role: Principal Investigator