

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

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

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

EDUCATION:

- 2003 Postdoctoral Fellowship
 Department of Molecular Pharmacology
 Stanford University, Stanford, CA
 (Advisor: Richard A. Roth, Ph.D.)
- 2001 Postdoctoral Fellowship
 Department of Cardiovascular and Metabolic Diseases
 Pfizer Inc., Groton, CT
 (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:

- 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-present 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. Woodie, L.N., Luo, Y., Wayne, M. J., Graff, E.C., O'Neill, A.M., and **Greene, M.W.** (2017) 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* (<https://doi.org/10.1016/j.metabol.2017.12.004>)
Impact Factor: 5.777 (#28 out of 138 in Nutrition & Dietetics by Eigenfactor Score)

2. 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.** (2017) Development and characterization of a novel congenic rat strain for cancer research. *Nutrition and Cancer* doi: 10.1080/01635581.2018.1412483 (in press)
Impact Factor: 2.447 (#34 out of 81 in Nutrition & Dietetics by Eigenfactor Score)
3. 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)
4. 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)
5. 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)
6. 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)
7. 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)
8. 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)

9. **Greene, M.W.**, Burrington, C. M., Luo, Y., Ruhoff, M. S., Lynch, D. T., and Chaithongdi, N. (2014) PKC δ 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)
10. **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)
11. **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)
12. 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)
13. **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)
14. 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)
15. **Greene, M. W.**, Ruhoff, M. S., Burrington, C. M., Garofalo, R. S., and Orena, S. J. (2010) TNF α -induced insulin resistance in hepatocytes is mediated by PKC δ . *Cell. Signalling* 22(2):274-84.
Impact Factor: 4.471 (#47 out of 185 in Cell Biology by Eigenfactor Score)

16. 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)
17. 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)
18. **Greene, M. W.**, Ruhoff, M. S., Roth, R. A., Kim, J., Quon, M. J., and Krause, J. A. (2006) PKC δ -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)
19. **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)
20. **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)
21. **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)
22. 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)
23. **Greene M. W.**, Shablott 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)

24. **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)
25. **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)
26. **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)
27. 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.
No Impact Factor for the journal
28. **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.
No Impact Factor for the journal
29. **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 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

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

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

AWARDS AND HONORS RECEIVED:

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

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

2017 Board of Directors, Boshell Diabetes and Metabolic Diseases Research Program
2017 Judge for College of Agriculture Graduate Student Poster Showcase 2017
2017 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, 10th Annual Boshell Diabetes Research Symposium
2016-present University Senate, Departmental Senator
2016 Judge for Postdoctoral fellow/Graduate student poster presentations, 9th Annual Boshell Diabetes Research Symposium
2015 Judge for Postdoctoral fellow/Graduate student poster presentations, 8th 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:

Cancer, Cancer Letters, European Journal of Lipid Science and Technology, 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, Nutrients, Nutrition & Cancer, Nutrition and Diabetes, Oxidative Metabolism and Cellular Longevity, Physiology & Behavior, PLOS Computational Biology, PLOS One, and Proceedings of the National Academy of Sciences

GRANT PEER REVIEW:

2017	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	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

Experiments in Molecular Genetics Lab Head TA (MCB 215/323)	2007 (Fall)
Intro. Biology Lab - TA (BIO 107)	1995-1997 (Fall and Spring)

University of Maryland, Baltimore County

Cell Biology Lab - TA (BIOL 303)	1994 (Fall)
Intro. Biology Lab -TA (BIOL 101)	1993 (Fall)

COURSE DEVELOPMENT:

Auburn University

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)

Description

PROFFESIONAL DEVELOPMENT:

Instructional

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
2012	New Faculty Teaching Scholar

Technical

2014	Sable Systems Spirometry Course. Las Vegas, NV
1999	BIA Basic Training Course. BIACORE AB, Piscataway, NJ

MENTORING EXPERIENCE:

Current Trainees

Graduate Student

Amy Willis (4th Yr)
Lauren Woodie (3rd Yr)
Bulbul Ahmed (3rd Yr)
Shane Braden (2nd Yr)
Jennifer Goldstein (2nd Yr)
Jenna Plummer (2nd Yr)
Caroline Knight (1st Yr)

Current Position

PhD student, Auburn University
PhD student, Auburn University
PhD student, Auburn University
MS student, Auburn University
MS student, Auburn University
MS student, Auburn University
MS student, Auburn University

Undergraduate Students

Delaney Reynolds
Claire Neinast
Patrick Downing
Sydney Smith
James Harris
Olivia Jackson
Peyton Kuhlers

Position

Undergraduate Asst.
Undergraduate Asst.
Undergraduate Asst.
Undergraduate Asst.
Undergraduate Asst.
Undergraduate Asst.
Undergraduate Asst.

Institution

Auburn University
Auburn University
Auburn University
Auburn University
Auburn University
Auburn University
Auburn University

Past Trainees

Post-doctoral Fellow

Jinghai Wu, M.D., Ph.D.
Ann Marie O'Neill, Ph.D.

Current Position

Research Scientist
Assistant Professor

Current Institution

Ohio State University
Auburn University at
Montgomery

PhD Graduate Student

Yuwen Luo

Current Position

TBD

Current Institution

TBD

Masters Graduate Student

Michael Wayne
Mary Rose Bottcher
Makenzie Callahan
Erin Landgrebe

Current Position

Research Asst.
Clinical Dietitian
PhD student
Clinical Dietitian

Current Institution

UT Southwestern
Dallas, TX
Univ of Alabama, Birmingham
Montgomery, AL

Internal Medicine Residents

Matthew P. Gilbert, D.O., M.P.H.
Niyutchai Chaithongdi, M.D.
Petpring Prajuabpansri, M.D.
Tepsiri Chongkairatanakul, M.D.
Atipon Kangwanpornisiri, M.D.
Potjana Jitawatanarat, 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
Josef Jackson
Morgan Satterfield

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
Undergraduate Asst.
Undergraduate Asst.

Institution

Hartwick College
Hartwick College
Hartwick College
Harvard University
Auburn University
Auburn University
Auburn University
Auburn University
Auburn University
Auburn University
Auburn University
Auburn University
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

GRADUATE THESIS/DISSERTATION COMMITTEE EXPERIENCE:

PhD Candidates

<u>Student</u>	<u>Department</u>	<u>Year Graduated</u>	<u>Role</u>
Lauren Woodie	Nutrition	N/A	Major Professor
Bulbul Ahmed	Nutrition	N/A	Major Professor
Amy Willis	Nutrition	N/A	Major Professor
Robert Johnson	Biology	N/A	Committee Member
Han Fang	Anatomy, Physiology	N/A	Committee Member
Iman Hassani	Chem. Engineering	N/A	Committee Member
Haley Hallowell	Biology	N/A	Committee Member
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>
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>
Shane Braden	Nutrition	N/A	Major Professor
Jennifer Goldstein	Nutrition	N/A	Major Professor
Jenna Plummer	Nutrition	N/A	Major Professor
Caroline Knight	Nutrition	N/A	Major Professor
Mallori Roberts	Nutrition	N/A	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

THESES AND DISSERTATIONS AS MAJOR PROFESSOR:

<u>Student</u>	<u>Degree</u>	<u>Year Graduated</u>	<u>Title</u>
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

STUDENT OR MENTEE ACHIEVEMENTS AND RESEARCH SUPPORT:

- 2017 Three Minute Thesis Competition at Auburn University, University Competition (1st Place). Awarded to Lauren Woodie. Role: Mentor.
- 2017 Three Minute Thesis at Auburn University, College of Human Sciences Competition (1st Place). Awarded to Lauren Woodie. Role: Mentor.
- 2017 Boshell Diabetes and Metabolic Diseases 8th Annual Research Day at Auburn University Poster Competition Award (2nd Place). Awarded to Lauren Woodie. Role: Mentor.
- 2016 Boshell Diabetes and Metabolic Diseases 8th Annual Research Day at Auburn University Poster Competition Award (3rd 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. 2nd 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. 2nd 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 (1st Place). Awarded to Nischala Ammannagari, MBBS. Role: Mentor
- 2012 E.D. Thomas Outstanding Research Presentation Award at the Bassett Medical Center (1st Place). Awarded to Erin Gillaspie, M.D. Role: Mentor
- 2012 American College of Physicians, New York Chapter Meeting Abstract/Poster Competition Award (2st 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 (1st Place). Awarded to Atipon Kangwanpornsir, 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 (1st 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:

1. Development of an Education Program for Clinical Studies to Reduce Cardiovascular Disease Risk Factors. Food and Nutrition Conference and Expo, Chicago, IL – October 2017.
2. 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)
3. 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)

4. 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)
5. Nutrition Knowledge and Mediterranean Diet Adherence: Validation of a Field Based Survey Instrument. Food and Nutrition Conference and Expo, Boston, Mass. – October 2016.
6. 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).
7. How I Came to Study Sugar. Auburn Talks. This is Research: Faculty Symposium at Auburn University. Auburn, Alabama – September 2015 (Oral Presenter).
8. 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).
9. Sugary Water Consumption Leads to Adipose, Liver, and Metabolic Dysfunction in a Western Diet-Induced Model of NAFLD. American Diabetes Association 74th Scientific Sessions, San Francisco, California – Jun 2014
10. 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).
11. 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.
12. 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).
13. Obesity impairs the efficacy of colon cancer treatment in mice. American College of Physicians, New York Chapter Meeting. Rye Brook, New York - February 2013. **(Awarded a First prize in the Abstract Competition)**
14. Role of a High Carbohydrate Diet in Fatty Liver Disease Progression. American College of Physicians Annual Meeting. Albany, New York – Aug 2012. **(Awarded a Second prize in the Abstract Competition).**

15. Lipid metabolism, oxidative stress and cell death are regulated by protein kinase C (PKC) delta in dietary models of steatohepatitis. American Diabetes Association 72nd Scientific Sessions, Philadelphia, Pennsylvania – Jun 2012.
16. Breast cancer growth and activation of insulin/IGF-1 signaling by circadian disruption. XIth International Symposium on Insulin Receptors and Insulin Action, Naples, Italy – Oct 2010 (oral presenter).
17. PKC δ and metabolic disease. XIth International Symposium on Insulin Receptors and Insulin Action, Naples, Italy – Oct 2010.
18. Circadian disruption induced by light at night upregulates PCNA expression in tissue-isolated human breast cancer xenografts in nude rats. American Association for Cancer Research. Washington, DC – Apr 2010.
19. Role of PKC δ in high fat diet-induced insulin resistance. American Diabetes Association 69th Scientific Sessions, New Orleans, Louisiana – Jun 2009.
20. PKC δ activation in vivo and in vitro in experimental models of nonalcoholic steatohepatitis. American College of Physicians Annual Meeting. Philadelphia, Pennsylvania – Apr 2009. **(Awarded a Best Poster prize in National Abstract Competition)**
21. Circadian disruption induced by dark-phase light contamination in laboratory animal facilities stimulates human tumor growth and metabolism in nude rats. Proceedings, 59th Annual Meeting, J. Am. Assoc. Lab. Anim. Sci., 47(6), Abstr. PS79, p. 94, 2008 (co-presenter).
22. Hepatic PKC δ is activated in a diet-induced model of nonalcoholic steatohepatitis. American Diabetes Association 68th Scientific Sessions, San Francisco, California – Jun 2008
23. FFA and TNF α -mediated PKC δ activation in primary rat hepatocytes. American Diabetes Association 67th Scientific Sessions, Chicago, Illinois – Jun 2007
24. Role of PKC δ in TNF α -induced insulin resistance. Xth International Symposium on Insulin Receptors and Insulin Action, Stockholm, Sweden – May 2007 (oral presenter).
25. Knockdown of PKC δ blocks TNF α -mediated inhibition of insulin signaling. American Diabetes Association 66th Scientific Sessions, Washington, DC – Jun 2006 (Late-Breaking Abstract).
26. Modulation of IRS-1 PH and PTB Domain Function by Phosphorylation. American Diabetes Association 65nd Scientific Sessions, San Diego, California – Jun 2005

27. Modulation of IRS-1 tyrosine phosphorylation by PKC δ . American Diabetes Association 62nd Scientific Sessions, San Francisco, California – Jun 2002 (oral presenter).
28. IRS-2 tyrosine phosphorylation by the insulin receptor kinase is modulated by serine phosphorylation *in vitro* by multiple Ser/Thr kinases. American Diabetes Association 60th Scientific Sessions, San Antonio, Texas – Jun 2000.
29. 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 (co-presenter).
30. Insulin-like growth factor mRNA detection in the diffuse pancreatic tissue of rainbow trout by *in situ* hybridization using digoxigenin labeled cRNA probes. 3rd International Symposium on Fish Endocrinology, Hakodaido, Japan – May 1996.
31. Expression of growth hormone and insulin-like growth factor genes in rainbow trout. 3rd International Symposium on Fish Endocrinology, Hakodaido, Japan – May 1996 (co-presenter).
32. Insulin-like growth factor mRNA detection in rainbow trout tissue by *in situ* hybridization using digoxigenin-labeled cRNA probes. 55th Annual Endocrine Society Meeting, Washington, DC – Jun 1995.
33. 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.
34. Characterization of neoplastic transformation of cells involved in Damselfish Neurofibromatosis utilizing *in vitro* techniques. American Fisheries Society/Fish Health Section and Western Fish Disease Conference, Newport, Oregon – Aug 1991 (co-presenter).

RESEARCH SUPPORT:

Current

1. 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
2. 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
3. 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

Pending

1. Title: Patient derived tumor cells to evaluate obesity-linked colon cancer aggressiveness
Agency or Foundation: Department of Defense (DoD)
Funding Mechanism: Peer Reviewed Cancer Research Program Idea Award with Special Focus
Project Director: Michael Greene, Ph.D.
Funding Period: March 2018 – February 2020; Requested Direct Costs: \$400,000
Role: Principal Investigator

Completed

1. 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)

2. 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

3. 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

4. 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

5. 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

6. 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

7. 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
8. 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.)
9. 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
10. 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
11. 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

12. 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

13. 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

14. 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

15. Project Title: IRS-1 Membrane Localization and Phosphoinositide Binding Mutants
Funding Organization: National Diabetes Trust Foundation
Project Director: Greene, Michael W.
Years Funded: Jul 2004-Jun 2005; Award: \$16,700
Role: Principal Investigator