Michael W. Greene, Ph.D.

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EDUCATION:

2003	Postdoctoral Fellowship Department of Molecular Pharmacology Stanford University, Stanford, CA (Advisor: Richard A. Roth, Ph.D.)
2000	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
2004-2012	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. 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)

2. 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 and Molecular Biology by Eigenfactor Score)

3. **Greene, M.W.**, Burrington, C. M., Luo, Y., Ruhoff, M. S., Lynch, D. T., and Chaithongdi, N. (2014) PKCδ 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 79 in Nutrition and Dietetics by Eigenfactor Score)

4. **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)

5. **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)

6. 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)

7. **Greene, M. W.**, Burrington, C. M., Ruhoff, M. S., Johnson, A. J., Chongkrairatanakul, T. and Kangwanpornsiri, 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)

8. 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)

9. **Greene, M. W**., Ruhoff, M. S., Burrington, C. M., Garofalo, R. S., and Orena, S. J. (2010) TNFα-induced insulin resistance in hepatocytes is mediated by PKCδ. Cell. Signalling 22(2):274-84.
   Impact Factor: 4.471 (#47 out of 185 in Cell Biology by Eigenfactor Score)

10. 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)

11. 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)

12. **Greene, M. W**., Ruhoff, M. S., Roth, R. A., Kim, J., Quon, M. J., and Krause, J. A. (2006) PKCδ-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)

13. **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)

14. **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)

15. **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)

16. 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)

17. **Greene M. W**., Shamblott 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)

18. **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)

19. **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)

20. **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)

21. Shamblott, 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

22. **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

23. **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)

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*). Masters Thesis, University of Washington

BOOK CHAPTER OR ONLINE CONTENT:

2012 Greene M.W. Glucose Metabolism. In: Schwabe M, editor. Encyclopedia of Cancer. Springer Press. http://www.springerreference.com/docs/html/chapterdbid/306845.html.

NEWSPAPER ARTICLES:

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*.

AWARDS AND HONORS RECEIVED:

1998-present	Member of Phi Kappa Phi Honor Society
1991-1992	John N. Cobb Memorial Scholarship

INSTITUTIONAL SERVICE:

Auburn University

2014-present	Research Infrastructure Task Force
2014-present	Research sub-committee faculty head, Nutrition Advisory Board
2013-present	Honors College Advisory Committee
2013-present	Malone-Zallen Award Committee
2013	Center for Health Ecology Research Draft Committee

Mary Imogene Bassett Hospital

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

MANUSCRIPT PEER REVIEW:

Cancer, Cancer Letters, European Journal of Lipid Science and Technology, Gastroenterology, Journal of Hepatology, Journal of the American Association for Laboratory Animal Science, Journal of Proteome Research, Journal of Translational Medicine, Metabolism, Molecular and

Cellular Endocrinology, Oxidative Metabolism and Cellular Longevity, Physiology & Behavior, and PLOS One

GRANT PEER 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	AAES Hatch Internal Review
2013	AU Research Initiative in Cancer: Seed Award
2013	AAES Hatch Internal 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

Course	*Credits*	*Students*	*Term*
Minerals (NTRI 7500)	3	15	Fall 2015
Minerals – Distance (NTRI 7505)	3	6	Fall 2015
Methods of Research (NTRI 7050)	2	22	Fall 2015
Methods of Research – Distance (NTRI 7056)	2	11	Fall 2015
Research Seminar (NTRI 7850-8850)	1	8	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)	3	20 (sec 001)	Spring 2013
Honors Nutrition and Health (NTRI 2007)	3	20 (sec 002)	Spring 2013
Nutrition and Health (NTRI 2000)	3	109	Fall 2012

University of Connecticut

Experiments in Molecular Genetics Lab	2007 (Fall)
Head TA (MCB 215/323)	
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	**Description**
Minerals – Distance (NTRI 7505)	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

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 Respirometry Course. Las Vegas, NV
1999	BIA Basic Training Course. BIACORE AB, Piscataway, NJ

MENTORING EXPERIENCE:

Current Trainees

Graduate Student	Current Position
Yuwen Luo (4th Yr)	PhD student, Auburn University
Amy Willis (3rd Yr)	PhD student, Auburn University
Lauren Woodie (1st Yr)	PhD student, Auburn University
Bulbul Ahmed (1st Yr)	PhD student, Auburn University
Mary Rose Bottcher (2nd Yr)	MS student, Auburn University
Makenzie Callahan (1st Yr)	MS student, Auburn University
Erin Landgrebe (1st Yr)	MS student, Auburn University

Undergraduate Students	Position	Institution
Jamie Reece	Research Fellow	Auburn University
Katie Nahay	Research Fellow	Auburn University
Josef Jackson	Undergraduate Asst.	Auburn University

Past Trainees

Post-doctoral Fellow	Current Position	Current Institution
Jinghai Wu, M.D., Ph.D.	Research Scientist	Ohio State University
Ann Marie O'Neill, Ph.D.	Research Asst. Professor	Auburn University

Masters Graduate Student	Current Position	Current Institution
Michael Wayne	TBD	TBD

Internal Medicine Residents	Current Position	Current Institution
Matthew P. Gilbert, D.O., M.P.H.	Attending - Endo	University of Vermont
Niyutchai Chaithongdi, M.D.	Attending - Endo	Sanford Clinic, ND
Petpring Prajuabpansri, M.D.	Attending - Internal	Little Rock, AR
Tepsiri Chongkrairatanakul, M.D.	Attending - Neph	Boston, MA

Atipon Kangwanpornsiri, M.D.	Attending - Neph	San Luis Obispo, CA
Potjana Jitawatanarat, M.D.	Fellow - Hem/Oncol	Roswell Park/SUNY, Buffalo
Saleem Chowdhry, MBBS	Fellow – GI	Case Western Univ
Promporn Suksaranjit, M.D.	Fellow – Cardio	University of Utah
Quanhathai Kaewpoowat, M.D.	Fellow – ID	University of Texas
Nischala Ammannagari, MBBS	Fellow - Hem/Oncol	Roswell Park/SUNY, Buffalo

Surgery Resident	Current Position	Current Institution
Erin Gillaspie, M.D.	Fellow – Thoracic Surgery	Mayo Clinic

Undergraduate Students	Position	Institution
Hulkar Mamayusupova	Senior Thesis student	Hartwick College
Adam Wood	Senior Thesis student	Hartwick College
Jason Henderson	Senior Thesis student	Hartwick College
Brian Reis	Summer Student	Harvard University
Kristen Gue	Independent Study	Auburn University
Julia Bottcher	Independent Study	Auburn University
Sarah Bode	Independent Study	Auburn University
Alex Cool	Summer Research Fellow	Auburn University
Griffin Russell	Summer Research Fellow	Auburn University

High School Students	Position	Institution
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

Student	Year Graduated	Role
Yuwen Luo	N/A	Major Professor
Amy Willis	N/A	Major Professor
Zhao Yang	N/A	Committee Member
Robert Johnson	N/A	Committee Member
Han Fang	N/A	Committee Member
Farruk Kabir	2014	University Reader
Allison M. Bradbury	2014	University Reader
Nootan Bhattarai	2013	University Reader

MS Candidates

Student	Year Graduated	Role
Michelle Hoffman	N/A	Committee Member
Mary Rose Bottcher	N/A	Major Professor

Michael Wayne	2015	Major Professor
Carly J. Moss	2013	Committee Member

STUDENT OR MENTEE ACHIEVEMENTS AND RESEARCH SUPPORT:

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 Kangwanpornsiri, 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 Chongkrairatanakul, 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.

2007 E.D. Thomas Medical Resident Fellowship. Awarded to Tepsiri Chongkrairatanakul 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. Genome-wide transcriptome analysis of liver and adipose tissue in a western diet-induced model of NAFL. Boshell Diabetes and Metabolic Diseases 7th Annual Research Day at Auburn University. Auburn, Alabama – February 2015 (Oral Presenter).

2. 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

3. 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).

4. 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.

5. 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).

6. 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)**

7. 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)**.

8. 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.

9. 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).

10. PKCδ and metabolic disease. XIth International Symposium on Insulin Receptors and Insulin Action, Naples, Italy – Oct 2010.

11. 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.

12. Role of PKCδ in high fat diet-induced insulin resistance. American Diabetes Association 69th Scientific Sessions, New Orleans, Louisiana – Jun 2009.

13. PKCδ 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)**

14. 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).

15. Hepatic PKCδ is activated in a diet-induced model of nonalcoholic steatohepatitis. American Diabetes Association 68th Scientific Sessions, San Francisco, California – Jun 2008

16. FFA and TNFα-mediated PKCδ activation in primary rat hepatocytes. American Diabetes Association 67th Scientific Sessions, Chicago, Illinois – Jun 2007

17. Role of PKCδ in TNFα-induced insulin resistance. Xth International Symposium on Insulin Receptors and Insulin Action, Stockholm, Sweden – May 2007 (oral presenter).

18. Knockdown of PKCδ blocks TNFα-mediated inhibition of insulin signaling. American Diabetes Association 66th Scientific Sessions, Washington, DC – Jun 2006 (Late-Breaking Abstract).

19. Modulation of IRS-1 PH and PTB Domain Function by Phosphorylation. American Diabetes Association 65nd Scientific Sessions, San Diego, California – Jun 2005

20. Modulation of IRS-1 tyrosine phosphorylation by PKCδ. American Diabetes Association 62nd Scientific Sessions, San Francisco, California – Jun 2002 (oral presenter).

21. 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.

22. 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).

23. 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.

24. 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).

25. 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.

26. 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.

27. 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:

Project Title: Microenvironmental Stimulation of Obesity-linked and Health Disparity-Associated Patient-derived Colon Cancer Tumor Growth

Funding Organization: Auburn University Research Initiative in Cancer
PI Name: Greene, Michael W. and Lipke, Elizabeth
Years Funded: August 2015-July 2017**; Award:** $200,000
Role: co-Principal Investigator

Project Title: Mediterranean Diet Study Abroad in Italy
Funding Organization: Auburn University College of Human Sciences Study Abroad Grant Program
PI Name: Greene, Michael W.
Years Funded: May 2015-June 2015; Award: $5,000
Role: Principal Investigator

Project Title: Role of sugary drinks in the development of obesity
Funding Organization: Auburn University Honors College
PI Name: Greene, Michael W.
Years Funded: Jan 2015-May 2015; Award: $10,000
Role: Principal Investigator

Project Title: Metabolic cages for cancer, drug, and metabolic disease research
Funding Organization: Auburn University Research Initiative in Cancer and Auburn University Intramural Grants Program
PI Name: Greene, Michael W.
Years Funded: Nov 2013-Oct 2014; **Award:** $182,078
Role: Principal Investigator

Project Title: RNA profiling to determine the role of sugar in obesity-linked non-alcoholic fatty liver disease progression
Funding Organization: Alabama Agricultural Experiment Station, Hatch Funding Program – Young Investigator Research Support Program
PI Name: Greene, Michael W.
Years Funded: Oct 2013-Sept 2015; **Award:** $50,000
Role: Principal Investigator

Project Title: Orthotopic Models of Human Colon Cancer
Funding Organization: Auburn University Research Initiative in Cancer
PI Name: Greene, Michael W.
Years Funded: May 2012-Apr 2013; **Award:** $20,000
Role: Principal Investigator

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, CTSA: Pilot Collaborative Translational and Clinical Sciences Award
PI Name: Greene, Michael W.

Years Funded: Jul 2011-Jun 2012; **Award:** $50,000
Role: Co - Principal Investigator

Project Title: Melatonin Supplementation in Complementary Breast Cancer Prevention
Funding Organization: National Institutes of Health, National Cancer Institute
PI Name: Blask, David E.
Years Funded: Apr 2008-Mar 2011; **Award:** $162,596
Role: Co - Investigator

Project Title: Animal Facility Dark-Phase Light Contamination: Impact on Human Cancer Metabolism
Funding Organization: Association for Assessment and Accreditation of Laboratory Animal Care
PI Name: Dauchy, Robert T.
Years Funded: Jul 2007-Jun 2008; **Award:** $24,949
Role: Co - Investigator

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