

CURRICULUM VITAE
October 2018

NAME Thomas W Gettys **Rank** Professor of Nutrient Sensing
& Adipocyte Signaling

1. EDUCATION

1973-1978	Biology, B.S.	Lander University, Greenwood, SC
1978-1980	Nutrition, M.S.	Clemson University, Clemson, SC
1981-1984	Nutrition, Ph.D.	Clemson University, Clemson, SC
1985-1987	Post Doctoral Training	Vanderbilt University, Nashville, TN
1987-1990	Post Doctoral Training	Duke Medical Center, Durham, NC

2. FACULTY APPOINTMENTS

1990-1993	Research Assistant Professor	Medicine	Duke Medical Center
1992-1993	Research Assistant Professor	Cell Biology	Duke Medical Center
1993-1999	Associate Professor	Medicine	Medical Univ. of SC
1995-1999	Associate Professor	Biochemistry	Medical Univ. of SC
2000-2001	Professor	Medicine	Medical Univ. of SC
2000-2001	Professor	Biochemistry	Medical Univ. of SC
2001-present	Professor	Cell Signaling	Pennington/LSU
2002-present	Adjunct Professor	Human Ecology	LSU
2003-present	Adjunct Professor	Pharmacology	LSU Health Science Center
2007-present	Adjunct Professor	Kinesiology	LSU
2003-2008	Chief of Exp Obesity Division		Pennington/LSU

3. MEMBERSHIP PROFESSIONAL/SCIENTIFIC SOCIETIES

American Society of Biochemistry and Molecular Biology, full member 1988 - present
The Obesity Society, 1997 - present
American Association for the Advancement of Science, 1995 - present
American Diabetes Association, 1999 - present
American Physiological Society, 2006 – present
American Nutrition Society, 2010 - present

Editorial Positions

Editorial Board American Journal of Physiology 1999-2000
Journal of Biological Chemistry 7/1/11 to 6/30/16

Invited

Reviewer for:	PLOS One	International Journal of Obesity
	Endocrinology	Molecular Endocrinology
	Biochemistry	FASEB Journal
	Biochemica et Biophysica Acta	Journal of Molecular and Cellular Cardiology
	Molecular Pharmacology	Biochemical Biophysical Res Communications
	Hepatology	Experimental Cell Research
	Journal of Lipid Research	Journal of Nutrition
	Journal of Clinical Investigation	Physiological Genomics

Study Section Membership & Service

NIH Integrative Physiology of Obesity and Diabetes – Ad Hoc Reviewer Feb 2007
American Diabetes Association Research Grant Review Panel - April 2006 - April 2009
American Diabetes Association Research Grant Review Panel – July 2013 – Oct 2016
NIH NIGMS Special Emphasis Panel, ZGM1 TWD-B, COBRE P20 – June 2012
NIH NIGMS Special Emphasis Panel, 2017/01 ZGM1 RCB-3 (C3), COBRE P30 – November 2016
American Diabetes Association Research Grant Review Panel – Oct 2016 – Sept 2019
NIH NIGMS Special Emphasis Panel, 2017/03 ZGM1 RCB-1 (C1), COBRE P20 – July 2017
NIH NIGMS Special Emphasis Panel, 2018/05 ZGM1 RCB-3 (2A), COBRE P20 – February 2018

4. GRANTS AND CONTRACTS

Extramural - Active Grants

NIH/NIGMS 3 P30 GM118430, “Mentoring Obesity and Diabetes Research in Louisiana”, (PI, Dr. Thomas W. Gettys with 25% time commitment, 8/1/16 – 07/31/21)

NIH/NIGMS 3 P30 GM118430-01S1, “Mentoring Obesity and Diabetes Research in Louisiana”, (PI, Dr. Thomas W. Gettys, 08/01/16 – 7/31/17) Administrative Supplement to parent award.

NIH/NIDDK 2RO1 DK096311 “Mechanisms of metabolic regulation by dietary methionine restriction”, (PI, Dr. Thomas W Gettys w/ 25% time commitment, 4/1/17 to 3/31/22)

NIH/NIGMS 1 P20 GM103528 “Mentoring Obesity and Diabetes Research in Louisiana”, (PI, Dr Thomas W Gettys with 50% time commitment, 8/1/11 to 7/31/18, no cost extension)

NIH/NIGMS 2 P20 GM10324 “Louisiana Biomedical Research Network”, (PI, Dr. Thomas Klei, Dr. Gettys is Faculty Mentor to Dr. SN Murthy with 10% time commitment, 5/15 to 4/18)

NIH/NIDDK T32 DK064584 Institutional Training Grant, “Obesity: From Genes to Man”, (PI, Dr. Phil Brantley, Dr. Thomas W Gettys is a Faculty Preceptor on the grant, 10/1/14 to 9/30/19)

Intramural - Active Grants - none

Extramural - Pending Grants - none

Completed Grants

NIH/NIDDK 1RO1 DK096311 “Mechanisms of metabolic regulation by dietary methionine restriction”, (PI, Dr. Thomas W Gettys w/ 25% time commitment, 7/1/12 to 3/30/17)

ADA Mentor-based postdoctoral Award 7-13-MI-05 “Role of UCP1 in the inter-organ lipid cycle engaged by dietary methionine restriction”, (PI, TWG as mentor w/no time commitment, 7/13 to 12/16)

American Diabetes Association Research Grant 1-12-BS-58 “Mechanisms of enhanced insulin sensitivity by dietary methionine restriction”, (PI, Dr. Thomas Gettys w/ 10% time commitment, 1/1/12 to 12/31/14)

LSU LIFT Grant Program, “Defining the Ranges of Dietary Methionine and Cysteine Restriction Essential to Biological Efficacy”, (PI, Dr. Thomas W. Gettys w/ no specific time commitment, 2/23/15 to 2/28/16)

NIH/NCRR 1 P20 RR021945 “Mentoring Obesity and Diabetes Research in Louisiana”, (PI, Dr Thomas W

Gettys with 50% time commitment, 9/4/06 to 7/31/11)

NIH/NIDDK 1U24DK076169 "Coordinating and Bioinformatics Unit of the Mouse Metabolic Phenotyping Center Consortium" (PI: Dr. Rick McIndoe, Subcontract PI, Dr. Thomas W. Gettys with no specific time commitment, 7/1/10 to 6/30/11)

NIH/NIDDK RO1 DK074772-01 "Regulation of SNS-dependent Remodeling of Adipose Tissue by a Novel Form of PGC-1", (PI, Dr. Thomas W Gettys w/25% time commitment, 1/1/07 to 12/30/10)

NIH/NIDDK RO1 GM074247-01 "AGS-1 and Signal Processing by G proteins", (PI, Dr. Steve Lanier, Subcontract PI, Dr. Thomas W Gettys w/10% time commitment, 12/1/05 to 11/30/10)

Orentreich Foundation for Advancement of Science - "Efficacy of Dietary Methionine Restriction for Weight Loss and Improved Insulin Sensitivity in Humans with Metabolic Syndrome", (PI, Dr Thomas W Gettys with no specific time commitment, 1/1/06 to 12/31/10)

NIH/NIDDK P30 DK072476-01 "Nutritional Programming: Environmental and Molecular Interactions", (PI, Dr. Eric Ravussin, Cell Signaling Core Dir, Dr. Gettys with a 10% time commitment), 9/15/05 to 8/31/10

Orentreich Foundation for Advancement of Science - "Mechanisms of Lifespan Extension by Dietary Methionine Restriction", (PI, Dr Thomas W Gettys with no specific time commitment, 7/1/04 to 6/30/09)

NIH NIDDK RO1DK64156 - "The role of delta-6 and delta-5 desaturases", (PI, Dr. Thomas W Gettys with 25% time commitment, 8/1/02 to 7/30/07)

NIH NIDDK RO1DK53872 - "Control of gene transcription by essential fatty acids", (PI, Dr. Thomas W Gettys with 25% time commitment, 8/1/02 to 7/30/07)

American Diabetes Association Research Grant - "Signaling Pathways linking Central Leptin Receptors to Peripheral Regulation of Gene Expression in Adipose Tissue", (PI, Dr. Thomas W. Gettys with 10% time commitment, 1/1/03 to 12/31/05)

NIH/NIDDK RO1 DK53981 - "Mechanisms of UCP Regulation by Leptin", (PI, Dr. Thomas W. Gettys with 50% time commitment, 7/1/98 to 6/30/03)

USDA NRI 9700575 - "Mechanisms of Leptin Resistance in Diet-Induced Obesity", (PI, Dr. Thomas W. Gettys with 10% time commitment, 7/1/98 to 6/30/01)

USDA NRI 9700575 - "Mechanisms of Leptin Resistance in Diet-Induced Obesity", (PI, Dr. Thomas W. Gettys with 25% time commitment, 7/1/01 to 6/30/04)

American Diabetes Association Research Grant - "Impaired Leptin Function in Diet-Induced Obesity", (PI, Dr. Thomas W. Gettys with no specific time commitment, 7/1/96 to 6/30/99)

NIH/NIDDK R29 DK42486 - "G-protein Function in Adipocytes of Diabetic Rodents", (PI, Dr. Tom W. Gettys, 50% time commitment, 6/1/90 to 5/31/95)

American Diabetes Association Mentor Based Medical Student Fellowship - (Mentor, Dr. Thomas W. Gettys with no specific time committment, 6/1/97 to 8/30/97)

NIH/NIDDK T32DK07752 - "MUSC Training Grant in Glomerular Diseases", (PI, Dr. John Raymond, Dr. Gettys is a Faculty Preceptor with no specific time commitment, 9/1/98 to 8/31/03)

NIH/NHLBI T32GM08716 - "MUSC Training Program for Medical Scientists", (PI, Dr. Perry Halushka, Dr.

Gettys is the Faculty Mentor for MD/PhD Candidate, Scott Commins, 7/1/99 to 6/30/04)

NIH/NIDDK DK38216 - "Peptide YY - Colonic, Gastric and Pancreatic Inhibition", (PI, Dr. Ian Taylor, Co-investigator, Dr. Gettys with 25% time commitment, 6/1/86 to 11/30/95)

NIH/NIDDK DK44072 - "Neuropeptide Y and Its Role in Congenital Obesity", (PI, Dr. Ian Taylor, Co-PI, Dr. Gettys with 25% time commitment, 6/15/91 to 4/30/95)

NIH/NIDDK T32DK07568 - "Duke Training Grant in Digestive Diseases and Nutrition", (PI, Dr. Ian Taylor, Dr. Gettys is a Faculty Preceptor on this grant, 10/87 to 6/93)

Glaxo Discovery Grant - "Neuropeptide Y Analogues as Therapeutic Agents in Cardiovascular Disease", (PI, Dr. Ian Taylor, Co-PI, Dr. Gettys with 25% time commitment, 7/1/89 to 6/30/92)

Student Mentoring Grants

HHMI Summer Undergraduate Research Program at LSU, (Dr. Gettys is sponsor and mentor for Vanderbilt student Lucie Calderon for project, Role of adiponectin as a mediator of the transcriptional effects of dietary methionine restriction, 6/1/12 to 8/19/12)

HHMI Summer Undergraduate Research Program at LSU, (Dr. Gettys is sponsor and mentor for Vanderbilt student Pranav Santapuram for project, Role of GCN2 in hypothalamic detection of dietary methionine restriction, 6/1/13 to 8/21/13)

HHMI Summer Undergraduate Research Program at LSU, (Dr. Gettys is sponsor and mentor for Washington University student Mark Xu for project, Role of changes in hepatic sulfur amino acid metabolism as a sensing mechanism of dietary methionine restriction, 5/26/14 to 8/23/14)

LSU School of Veterinary Medicine Summer Scholars Program funded by NIH grant, (Dr. Gettys is the mentor for E. Claire Hotard, a 2nd year Vet Med student at LSU for project, Threshold for dietary cysteine in reversing the physiological responses to dietary methionine restriction, May 2014 through Aug 2014)

NIH/NIDDK 1U24DK076169 "Coordinating and Bioinformatics Unit of the Mouse Metabolic Phenotyping Center Consortium" (PI: Dr. Rick McIndoe, Subcontract PI, Dr. Thomas W. Gettys as MMPC Summer Student mentor for Meredith Shapiro for project, "Analysis of Covariance of MMPC Indirect Calorimetry Data", 7/1/12 to 6/30/14)

LSU Student Undergraduate Research Enhancement Program funded by NSF, (Dr. Gettys is sponsor and mentor for LSU student Jordan Farshchi-Zarrabi for project, The role of FGF-21 in enhancement of insulin sensitivity in adipose tissue by dietary methionine restriction, 1/1/15 to 8/23/15)

Louisiana Biomedical Research Network (LBRN) funded by NIH 2P20 GM10324, (Dr. Gettys is sponsor and mentor for Southern University student Avinash Kumar for project, Studies on increased intake of L-Methionine in relation to energy expenditure, 6/1/16 to 8/31/16)

5. HONORS AND AWARDS

John Henry Hernandez Endowed Professorship in Health Promotion, December 2014 - present
Chairman, Steering Committee, NIH Mouse Metabolic Phenotyping Center, July 2011 – June 2017
External Advisor, NIH Mouse Metabolic Phenotyping Centers Consortium, April 2008 – June 2017
Green Honors Chair Professor, Texas Christian University, March 2007
Honors Convocation Keynote Speaker, Lander University, April 1999
Sigma Xi Scientific Research Society, Elected Dec. 1984
Who's Who in Medicine and Healthcare in America, 1996-present

Research featured in NRI Research Highlights (No. 6, 2001), a publication of the NRI Competitive Grants Program prepared for distribution to Congress

Invited Lectures

“Sensing and signaling systems linking dietary methionine restriction to remodeling of adipose tissue”, TOS/NORC Joint Symposium: Environmental influences on adipose tissue. Nashville, TN Nov 13 2018

“The sensing and signaling mechanisms linking dietary macronutrients to tissue-specific adaptive responses: the leverage of protein” Louisiana Tech University Frontiers in Biomedical Research Symposium Series. Sept 24 2018

“Mechanisms linking dietary methionine to its metabolic effects”, NIH Office of Dietary Supplements, Washington, DC April 2018.

“Mechanisms linking dietary methionine restriction to its metabolic phenotype”, Morgridge Metabolism Colloquium, University of Wisconsin, Madison, WI September 2017.

“Effects of essential amino acid restriction on metabolic health”, NIA Workshop, Nutritional Interventions to Promote Health Aging, Washington, DC September 2017

“The sensing and signaling mechanisms linking dietary methionine restriction to its metabolic phenotype”, Georgia State University, External Speakers Program, Atlanta, GA, October 2016

“Novel mechanisms of insulin sensitization by dietary methionine restriction”, Symposia on Intermediary Metabolites and Insulin Action, ADA Annual Meeting, New Orleans, LA, June 2016.

“Mechanisms linking sensing of dietary methionine to changes in metabolism”, Diabetes Research Center Seminar Series, Albert Einstein College of Medicine, March 2015

“Mechanisms linking sensing of dietary methionine to tissue-specific remodeling of metabolism”, Interdepartmental Nutrition Program Seminar Series”, Purdue University, Oct. 2014

“Transcriptional and Biochemical Underpinnings of the Physiological Responses to Dietary Methionine Restriction”, Plenary Lecture, Boshell Diabetes & Metabolic Disease Research Program, Auburn University, February 2014

“An Integrated View of the Mechanisms for the Beneficial Metabolic Responses to Dietary Methionine Restriction”, Department of Health and Kinesiology”, Texas A&M University, December 2013

“Spatial and Temporal Organization of Physiological Responses to Dietary Methionine Restriction: Experimental Approach as a Path to Mechanism”, Physiology Department, U Miss Med Center, June 2013

“Spatial and Temporal Organization of Physiological Responses to Dietary Methionine Restriction: Experimental Approach as a Path to Mechanism”, Nutritional Sciences Department, Rutgers, March 2013

“Remodeling of the Integration of Lipid Metabolism between Liver and Adipose Tissue by Dietary Methionine Restriction”, Symposium on Metabolic Regulation by Amino Acids for Optimal Health at Experimental Biology Meetings, San Diego, CA, April 21-25, 2012

“Regulation of Alternative Splicing as a Basis for the Versatility of PGC-1 α as a Transcriptional co-activator”. Department of Pharmaceutical & Medical Sciences, Medical University of South Carolina, April 3, 2012

“Mechanisms Linking Sensing of Dietary Methionine Restriction to Tissue-Specific Enhancement of Insulin

Sensitivity” Dept of Human Nutrition, Foods and Exercise, VA Tech, Oct 2011

“Mechanisms and implications of the tissue-specific remodeling of lipid metabolism by dietary methionine restriction”, 52nd International Conference on the Bioscience of Lipids, Warsaw, Poland, Aug 2011

“Sensing Mechanisms Linking Dietary Methionine Restriction to Enhanced Metabolic Flexibility”, Case Western Reserve University, Department of Biochemistry, Oct. 2010

“The Timeless Value of Commitment to Mentoring Excellence: A Tribute to Prof. Peter M Burrows. Establishment of Memorial Lecture Series for Peter M Burrows, Clemson University, Oct. 2010

“The Role of Alternative Splicing in the Spatial and Temporal Integration of PGC-1 α Function”, LSU HSC Dept of Pharmacology External Speaker Series, October 2010.

“Metabolic Consequences of Tissue-Specific Remodeling of Lipid Metabolism by Dietary Methionine Restriction”. Plenary Lecture, Bioactive Food Components, Mitochondrial Function and Health, European Union Conference at University of Aberdeen, Scotland, May 2010.

“Transcriptional Inputs to Energy Metabolism from a Novel Splice Variant of PGC-1 α ”, UAB Diabetes Day Research Symposium, Plenary Lecture, Birmingham, Alabama, May 2010.

“Alternative Splicing Produces a Novel Biologically Active Short Isoform of PGC-1 α ”, Invited Lecture to Duke / National Univ Singapore, Graduate Medical School in Singapore, September 2009.

“Transcriptional Remodeling of Adipose Tissue Oxidative Capacity by PGC-1 α and Its Splice Variants”, Hypertension & Renal Center of Excellence Seminar Program, Tulane School of Medicine, June 2008.

“The Discovery of a Novel Splice Variant of PGC-1 α : Mechanisms of Function and Biological Significance”, School of Mol Biosciences Speakers Program, Washington State University, April 2008.

“The Essential Roles of Coordinated Mentoring at the Institutional, Departmental, and Individual Level: The Path to Development of Academic Excellence”, Texas Christian University, March 2007.

“Control of Hepatic Gene Transcription by Dietary Polyunsaturated Fatty Acids”, Clinical Nutrition Research Unit External Speakers Program, Univ Alabama-Birmingham, March 2006.

“Transcriptional Regulation of SNS-Dependent Adipose Tissue Remodeling”, Cellular and Clinical Neuroscience Training Program, Wayne State University, Nov. 2006.

“A Novel Splice Variant of the Transcriptional Co-Activator, PGC-1 α Regulates the Activity of the Parent Protein”, Molecular Physiology & Biophysics, Vanderbilt Univ. School of Med, Nov. 2005.

“Adipose Tissue as a Pharmacological Target for Treatment of Obesity”, Lecture to Medical Students enrolled in Medical Pharmacology, LSU School of Medicine, LSUHSC, New Orleans, March 2005.

“Mechanisms of Leptin Resistance in Diet-Induced Obesity”, USDA Obesity Prevention Planning Workshop, Washington, DC, April 2004.

“Adipose Tissue as a Pharmacological Target for Treatment of Obesity”, Lecture to Medical Students enrolled in Medical Pharmacology, LSU School of Medicine, LSUHSC, New Orleans, March 2004.

“Adipose Tissue as an Endocrine Organ”, Cardiovascular Research Institute, Morehouse School of Medicine, Atlanta, GA, December 2003

“Integration of Communication between Adipose Tissue and the CNS”, Greenwood Genetics Center, JC Self Research Institute, Greenwood, SC, November 2003

“Mechanisms of Leptin-Dependent Regulation of Adipocyte Gene Expression”, LSUHSC Pharmacology Dept External Speakers Seminar Program, New Orleans, LA, March 2002.

“Invited speaker at Wenner-Gren Symposium, Fever, hyperpyrexia, and thermogenesis, June 2002 in Stockholm, Sweden”

“Leptin Regulation of Adipocyte Gene Expression; Role of the SNS”, Metabolic Diseases Branch, Eli Lilly Company, Indianapolis, IN, April 2000

“Norepinephrine is Required for Leptin Effects on Gene Expression in Adipose Tissue”, Symposium on CNS Control of Peripheral Metabolism and Body Weight, Society for the Study of Ingestive Behaviors Annual Meeting, Clearwater Beach, FL, July 1999.

“The Critical Role of Mentoring to Success in Science”, Honors Convocation Speaker, Lander University, Greenwood, SC, April 1999.

“Neural Regulation of Adipose Tissue Gene Expression in Obesity”, External Speakers Program, Clemson University Department of Animal and Veterinary Science, Clemson, SC March, 1999

“Leptin Regulates Uncoupling Protein Expression in Both Brown and White Adipose Tissue”, Lecture Series on Obesity, Glaxo Metabolic Diseases Branch, November, 1997

“The Relevance of Changes in Receptor-G Protein Stoichiometry to Signalling Continuity”, External Speakers Program, Pennington Biomedical Research Center, Baton Rouge, LA, Jan 1997.

6. PUBLICATIONS

Refereed Journals in Chronological Order

1. Henricks, D.M., Edwards, R.L., Champe, K.A., **Gettys, T.W.**, Skelley, G.C., and Gimenez, T. 1982. Trenbolone, estradiol-17 β and estrone levels in plasma, tissues and live weight gains of heifers implanted with trenbolone acetate. *Journal of Animal Science* 55: 1048-1056.
2. Schanbacher, B.D., D'Occhio, M.J., and **Gettys, T.W.** 1983. Pulsatile luteinizing hormone secretion in the castrate male bovine: effects of testosterone or estradiol replacement therapy. *Journal of Animal Science* 56: 132-138.
3. **Gettys, T.W.**, D'Occhio, M.J., Henricks, D.M., and Schanbacher, B.D. 1984. Suppression of LH secretion by oestradiol, dihydrotestosterone and trenbolone acetate in the acutely castrated bull. *Journal of Endocrinology* 100: 107-112.
4. **Gettys, T.W.**, Burrows, P.M., and Henricks, D.M. 1986. Use of weighting functions in radioimmunoassay calibration. *American Journal of Physiology* 251: E357-361.
5. **Gettys, T.W.**, Blackmore, P.F., Redmon, J.B., Beebe, S.J., and Corbin, J.D. 1987. Short term feedback regulation of cAMP by accelerated degradation in rat tissues. *Journal of Biological Chemistry* 262: 333-339.
6. **Gettys, T.W.**, Henricks, D.M., Schanbacher, B.D., and Burrows, P.M. 1987. Partition of food intake between maintenance and gain among bovine sex phenotypes. *Animal Production* 44: 209-217.

7. **Gettys, T.W.**, Vine, A.J., Simonds, M.F., and Corbin, J.D. 1988. Activation of the particulate low K_m phosphodiesterase of adipocytes by addition of cAMP-dependent protein kinase. *Journal of Biological Chemistry* 263: 10359-10363.
8. **Gettys, T.W.**, Blackmore, P.F., and Corbin, J.D. 1988. An assessment of phosphodiesterase activity *in situ* after treatment of hepatocytes with hormones. *American Journal of Physiology* 254: E449-E453.
9. **Gettys, T.W.**, Mills, S., and Henricks, D.M. 1988. An evaluation of the relationship between equilibrium body weight and food consumption rate in the male rat. *British Journal of Nutrition* 60: 151-160.
10. **Gettys, T.W.**, Henricks, D.M., Burrows, P.M., and Schanbacher, B.D. 1988. An assessment of the relationship between tissue growth patterns and selected hormone profiles among sex phenotypes in the bovine. *Animal Production* 47: 335-343.
11. Henricks, D.M., Gimenez, T., **Gettys, T.W.**, and Schanbacher, B.D. 1988. Effect of castration and an anabolic implant on growth and serum hormones in cattle. *Animal Production* 46: 35-41.
12. Corbin, J.D., Cobb, C.E., Beebe, S.J., Granner, D.K., Koch, S.R., **Gettys, T.W.**, Blackmore, P.F., Francis, S.H., and Wells, J.N. 1988. Mechanism and function of cAMP- and cGMP-dependent protein kinases. *Advances Cyclic Nucleotide and Protein Phosphorylation Research* 21: 75-86.
13. **Gettys, T.W.**, Schanbacher, B.D., and Taylor, I.L. 1989. An assessment of the interaction between photoperiod and sex phenotype in relation to appetite development in sheep. *Livestock Production Science* 22: 283-293.
14. Kossoy, L., Hill, G.A., **Gettys, T.W.**, Brodie, B.L., Herbert, C.M., and Wentz, A.C. 1989. Results of *in vitro* fertilization in normal ovulatory women treated with pure follicle stimulating hormone. Analysis of the estradiol response. *Human Reproduction* 4: 754-756.
15. Fink, A.S., DeMar, A.R., **Gettys, T.W.**, and Taylor, I.L. 1990. Meal-induced pancreatic polypeptide release in a validated pancreatic denervation model: A role for the distal pancreas? *Pancreas* 5: 323-329.
16. Liddle, R.A., Gertz, B.J., Kanayama, S., Beccaria, L., **Gettys, T.W.**, Taylor, I.L., Rushakoff, R.J., Williams, V.C., and Coker, L.D. 1990. Regulation of pancreatic endocrine function by cholecystokinin. Studies with MK-329, a nonpeptide cholecystokinin receptor antagonist. *Journal of Clinical Endocrinology and Metabolism* 70: 1312-1318.
17. Redmon, J.B., **Gettys, T.W.**, Beebe, S.J., Sheorain, V.S., and Corbin, J.D. 1990. Failure of insulin to antagonize cAMP-mediated glycogenolysis in rat ventricular cardiomyocytes. *American Journal of Physiology* 258: E871-E877.
18. Figueiredo, F., Uhing, R.J., Okonogi, K., **Gettys, T.W.**, Prpic, V., and Adams, D.O. 1990. Inhibition of murine macrophage I_a expression by activation of cAMP-dependent protein kinase. *Journal of Biological Chemistry* 265: 12317-12323.
19. Gettys, V.R., and **Gettys, T.W.** 1990. An evaluation of the nutritional status of children in a rainforest community of Ecuador. *American Journal of Human Biology* 2: 561-569.
20. **Gettys, T.W.**, Okonogi, K., Tarry, W.C., and Taylor, I.L. 1990. Examination of relative rates of cAMP synthesis and degradation in crude membranes of adipocytes treated with hormones. *Second Messengers and Phosphoproteins* 13: 37-49.

21. **Gettys, T.W.**, Garcia, R., Savage, K., Kanayama, S., and Taylor, I.L. 1991. Insulin sparing effects of pancreatic polypeptide in congenitally obese rodents. *Pancreas* 6: 46-53.
22. Guan, D., Maouyo, D., Taylor, I.L., **Gettys, T.W.**, Greeley, G.H., and Morisset, J. 1991. Peptide YY, a new partner in the negative feedback control of pancreatic secretion. *Endocrinology* 128: 911-916.
23. Okonogi, K., **Gettys, T.W.**, Uhing, R., Tarry, W.C., Adams, D.O., and Prpic, V. 1991. Lipopolysaccharide suppression of cyclic AMP production in PGE-stimulated macrophages. *Journal of Biological Chemistry* 266: 10305-10312.
24. Nguyen, T.D., Canada, A.T., Heinz, G.G., **Gettys, T.W.**, and Cohn, J.A. 1991. Stimulation of secretion by the T₈₄ colonic epithelial cell line with dietary flavonols. *Biochemical Pharmacology* 41: 1879-1886.
25. **Gettys, T.W.**, Ramkumar, V., Uhing, R.J., Seger, L.S. and Taylor, I.L. 1991. Alterations in mRNA levels expression and function of GTP-binding regulatory proteins in adipocytes from obese mice (C57BL/6J-ob/ob). *Journal of Biological Chemistry* 266: 15949-15955.
26. Thomas, M.K., Francis, S.H., Beebe, S.J., **Gettys, T.W.**, and Corbin, J.D. 1992. Partial mapping of cyclic nucleotide sites and studies of regulatory mechanisms of phosphodiesterases using cyclic nucleotide analogs. *Advances in Second Messenger and Phosphoprotein Research* 25: 45-53.
27. Uhing, R.J., **Gettys, T.W.**, Tomhave, E., Snyderman, R., and Didsbury, J.R. 1992. Inhibition of cyclic AMP accumulation by an expressed formylpeptide chemoattractant receptor. *Biochemical Biophysical Research Communications* 183: 1033-1039.
28. **Gettys, T.W.**, Tanaka, I., and Taylor, I.L. 1992. Modulation of pancreatic exocrine function in rodents by treatment with pancreatic polypeptide. *Pancreas* 7: 705-711.
29. Becker, B., **Gettys, T.W.**, Middleton, J., Albers, F., Lee, S.-L., Fanburg, B., and Raymond, J.R. 1992. Bovine pulmonary artery smooth muscle cells express a 5-HT₄-like receptor. *Molecular Pharmacology* 42: 817-825.
30. Farouk, M., Vigna, S.R., Haebig, J.E., **Gettys, T.W.**, McVey, D.C., Pruthi, R.S., and Meyers, W.C. 1993. Secretin receptors in a new preparation of plasma membranes from intrahepatic biliary epithelium. *Journal of Surgical Research* 54: 1-6.
31. Prpic, V., Uhing, R. J., and **Gettys, T.W.** 1993. Preparation of ³²P-labeled cyclic AMP and GMP for assay of phosphodiesterase activity. *Analytical Biochemistry* 208: 155-160.
32. McGill, J.M., **Gettys, T.W.**, Basavappa, S., and Fitz, J.G. 1993. GTP-binding proteins directly regulate high conductance anion channels in rat bile duct epithelial cells. *Journal of Membrane Biology* 133: 253-261.
33. Guan, D., Rivard, N., Maouyo, D., Morisset, J. and **Gettys, T.W.** 1993. Importance of cholecystinin in Peptide YY release in response to pancreatic juice diversion. *Regulatory Peptides* 43: 169-176.
34. Raymond, J.R., Olsen, C.L., and **Gettys, T.W.** 1993. Physical and functional coupling of human 5-HT_{1A} receptors to inhibitory but not stimulatory G protein α -subunits. *Biochemistry* 32: 11064-11073.
35. McGill, J. M., **Gettys, T.W.**, Basavappa, S., and Fitz, J. G. 1994. Secretin-dependent activation of Cl⁻ channels in bile duct epithelial cells. *American Journal of Physiology* 266: G731-G736.
36. Mulheron, J., Casanas, S., Arthur, J.M., Garnovskaya, M.N., **Gettys, T.W.**, and Raymond, J.R. 1994.

Human 5-HT_{1A} receptors activate endogenous G_i-like G proteins and inhibit cAMP accumulation when expressed heterologously in insect cells. *Journal of Biological Chemistry* 269: 12954-12962.

37. **Gettys, T.W.**, Fields, T.A., and Raymond, J.R. 1994. Partial agonists of the human 5-HT_{1A} receptor selectively activate G_iα-2 and G_iα-3 with less efficacy than full agonists. *Biochemistry* 33: 4283-4290.
38. Collins, S., Ramkumar, V., Daniels, K., Taylor, I.L., and **Gettys, T.W.** 1994. Impaired expression and functional activity of the β₃- and β₁-adrenergic receptors in adipose tissue of congenitally obese (C57BL/6J-ob/ob) mice. *Molecular Endocrinology* 8: 518-527.
39. Palmer, T.M., **Gettys, T.W.**, Jacobson, K.A., and Stiles, G.L. 1994. Desensitization of the canine A_{2A} receptor: delineation of multiple cyclic AMP-independent processes. *Molecular Pharmacology* 45: 1082-1094.
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7. PATENTS AND INVENTIONS

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United States Patent PCT/US2014, Registration #33,451 – “Palatable Foods for a Methionine Restricted Diet”, Filed June 4, 2014. Inventors: Drs. John Finley, Frank Greenway, and Thomas W. Gettys.