

B. Douglas White

Associate Professor
Department of Nutritional Sciences
College of Human Sciences
and
Adjunct Associate Professor
Department of Anatomy, Physiology, and Pharmacology
College of Veterinary Medicine

Auburn University, AL 36849

Work

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Home

726 Burke Place
Auburn, AL 36830

Education

Louisiana State University Medical Center, New Orleans, LA. August 1984 to August 1988.

Degree: Ph.D. (Physiology)
Major Professor: Dr. Johnny R. Porter

Auburn University, Auburn, AL. September 1980 to March 1984.

Degree: M.S. (Physiology)
Major Professor: Dr. John F. Pritchett

Auburn University, Auburn, AL. September 1977 to August 1980.

Degree: B.S. in Arts and Sciences.
Major: Chemistry

Professional Experience

2001-present	Associate Professor, Department of Nutritional Sciences*, Auburn University, AL
2000-present	Adjunct Appointment, Department of Anatomy, Physiology, and Pharmacology, College of Veterinary Medicine, Auburn University, AL.
2004 – 2009	Department Head, Department of Nutrition and Food Science, Auburn University, AL
1996-2001	Assistant Professor, Department of Nutrition and Food Science, Auburn University, AL
1991-1996	Assistant Research Scientist, Department of Foods and Nutrition, University of Georgia, GA
1989-1991	Research Coordinator, Department of Foods and Nutrition, University of Georgia, GA
1988-1989	Postdoctoral Associate, Department of Foods and Nutrition, University of Georgia, GA

* Formerly - Department of Nutrition, Dietetics, and Hospitality Management, Formerly - Department of Nutrition and Food Science,

Honors and Awards

Selected by members of the Sphinx Chapter of the Mortar Board Honor Society for an annual Excellence in Teaching Award (2018)
 Outstanding Faculty Member in the College of Human Science by SGA (2000-2001)
 Named an outstanding professor by the A.U. Panhellenic Council (Spring '99)
 Recipient of a National Research Service Award (1985 - 1988)
 Member of American Physiological Society
 Member of American Diabetes Association

Graduate Students Completed

Major Professor (Doctoral)

<u>Name</u>	<u>Dissertation Title</u>	<u>Year</u>
Yijing Qi	Leptin's potential interactions with counter-regulatory hormones and glucocorticoid receptor signaling in type 1 diabetic rats	2019

Meng Ding	The association between food insecurity and health behavior outcomes	2015
Shuhui Wang	Studies on extraction of fucoxanthin and its potential antiobesity effect	2014
Yuan Kang	Inhibitory effect of central leptin on hepatic glucose production in streptozotocin (STZ)-induced diabetic rats	2010
Jinpin Wang	Central leptin, but not central insulin attenuates the decrease of adiponectin concentration and increases insulin sensitivity in streptozotocin-(STZ)-induced diabetic rats	2005
Chia-yu Lin	Central leptin administration increases insulin sensitivity, independent of food intake, and sympathetic activity in diabetic rats	2002
Allan Higginbotham	A low protein diet as a model of leptin resistance	2001

Major Professor (Master's)

<u>Name</u>	<u>Thesis Title</u>	<u>Year</u>
Yijing Qi	Blood glucose concentrations are not increased by chronic IP glucagon administered in leptin-treated type 1 diabetic rats.	2016
Kristin Rowland	Does chronic leptin treatment decrease glucagon responsiveness in STZ-induced type 1 diabetic rats?	2013
Chenchen Yu	Leptin treatment in STZ-induced diabetic rats inhibits glucagon responsiveness and hepatic gluconeogenic gene expression	2010
Jason Patten	Assessment of the gluconeogenic capabilities of leptin-treated diabetic rats by feeding albumin and fructose diets	2007

MaryAnne Gragg	The apparent increase in insulin sensitivity of leptin-treated rats appears to be due to a decrease in blood glucose concentrations due to fasting	2007
Lance Ratcliff	Physical Activity, Inactivity, and Body Mass Index of Black Children in Rural Alabama	2005
Fangyan Du	Food intake, body composition and energy balance in rats fed various levels of low dietary protein	1999

Major Professor (Nonthesis Master's)

<u>Name</u>	<u>Year</u>
Jessica Broussard	2019

Committee Member

<u>Name</u>	<u>Degree (Department)</u>	<u>Year</u>
Megan Robinson	Ph.D. (Nutrition)	2023
Xiaowen Ding	Ph.D. (Nutrition)	2022
Andrea Carter	M.S. (nonthesis-Nutrition)	2021
Luoqi Miao	M.S. (nonthesis-Nutrition)	2021
Megan Phillips	Ph.D. (Nutrition)	2021
Rongzi Li	Ph.D. (Nutrition)	2021
Donny Lamb	Ph.D (Nutrition)	2020
Yuxian Zhang	Ph.D (Nutrition)	2020
Sarah Cooper	M.S. (nonthesis-Nutrition)	2019
Simone Weingarten	M.S. (nonthesis-Nutrition)	2019
Amy Willis	Ph.D. (Nutrition)	2018
Jaynae Pyle	M.S. (nonthesis-Nutrition)	2018
Katherine Salomone	M.S. (nonthesis-Nutrition)	2018
Emily Kilgo	M.S. (nonthesis-Nutrition)	2018
Carly Davis	M.S. (nonthesis-Nutrition)	2017
Jenna Le Kayworth	M.S. (nonthesis-Nutrition)	2017
Andrew Mitchell	M.S. (Building Construction)	2017
Chen Zheng	Ph.D. (Nutrition)	2016
Yueri Li	Ph.D. (Nutrition)	2016
Micheal Wayne	M.S. (Nutrition)	2015
Jue Wang	M.S. (Biosystems Engineering)	2015
Grace Flowers	M.S. (nonthesis-Nutrition)	2014
Matthew Rogatski	Ph.D. (Kinesiology)	2014

Gauri Desai	Ph.D. (Nutrition)	2014
Lynsey Wilson	Ph.D (HRMT)	2014
Emma Cook	M.S. (nonthesis-Nutrition)	2013
Emily Jenkins	M.S. (nonthesis-Nutrition)	2013
Megan Phillips	M.S. (nonthesis-Nutrition)	2013
Martha Lee Ann Ryals	M.S. (nonthesis-Nutrition)	2013
Haley Shumaker	M.S. (nonthesis-Nutrition)	2013
Beth Latham	M.S. (nonthesis- Nutrition)	2012
Fan Yang	Ph.D. (Anatomy, Physiology, and Pharmacology)	2012
Ann Johnson	Ph.D. (Nutrition)	2012
Jian (Albert) Zhang	Ph.D. (Nutrition)	2012
Yinghui Rong	Ph.D. (Nutrition)	2012
Frank Newell	M.S. (Nutrition)	2011
Doug Murray	Ph.D. (Hospitality Management)	2011
Alisha Gaines	M.S. (Nutrition and Food Science)	2008
Francis Tayie	Ph.D. (Nutrition and Food Science)	2008
Zhenchuan Fan	Ph.D. (Anatomy, Physiology, and Pharmacology)	2008
Edmond Huang	M.S. (Nutrition and Food Science)	2008
Brenda White	M.S. (Nutrition and Food Science)	2007
Keerthi Cherukuri	M.S. (Horticulture)	2007
Deepa Bedi	Ph.D. (Anatomy, Physiology and Pharmacology)	2007
Jamie Papizan	M.S. (Nutrition and Food Science)	2007
Amy Jo Riggs	Ph.D. (Nutrition and Food Science)	2006
Eric Plaisance	Ph.D. (Exercise Science)	2006
Kristen Clarke	Ph.D. (Anatomy, Physiology, and Pharmacology)	2005
Erin Sharpe	M.S. (Nutrition and Food Science)	2005
Niki Schier	M.S. (Nutrition and Food Science)	2005
Min Ding	M.S. (Anatomy, Physiology, and Pharmacology)	2005
Sofiya Alhassan	Ph.D. (Exercise Science)	2004
Erin Glimore	M.S. (Nutrition and Food Science)	2004
Pam Galloway	M.S. (Nutrition and Food Science)	2004
India Sachitano	M.S. (Nutrition and Food Science)	2004
Greg Goodwin	M.S. (Hotel and Restaurant Management)	2004
Sarah Kerr	M.S. (Nutrition and Food Science)	2002
Jona Cary	M.S. (Hotel and Restaurant Management)	2002
Xu Yinghui	M.S. (Nutrition and Food Science)	2001
Michelle Bader	M.S. (Nutrition and Food Science)	2000
Lirong Zhong	M.S. (Nutrition and Food Science)	2000
Sofiya Alhassa	M.S. (Health and Human Performance)	2000
Nicole Britton	M.S. (Hotel and Restaurant Management)	1999
Merrideth Sloan	M.S. (Nutrition and Food Science)	1999

Kyle Willian	M.S. (Nutrition and Food Science)	1998
Tracy Gardner	M.S. (Nutrition and Food Science)	1998

Outside Reader

<u>Name</u>	<u>Degree (Department)</u>	<u>Year</u>
Zhuoyue Li	Ph.D. (Anatomy, Physiology, and Pharmacology)	2020
Hannah Fang	Ph.D. (Anatomy, Physiology, and Pharmacology)	2019
Emily Graff	Ph.D. (Anatomy, Physiology, and Pharmacology)	2015
Hui Huang	Ph.D. (Anatomy, Physiology, and Pharmacology)	2014
Xiu-Lei Mo	Ph.D. (Anatomy, Physiology, and Pharmacology)	2013
Desi Wander	Ph.D. (Anatomy, Physiology, and Pharmacology)	2012
Robert Bower	Ph.D. (Health and Human Performance)	2009
Gede Sumiarsa	Ph.D. (Fisheries & Allied Aquacultures)	2003
Steve McAnulty	Ph.D. (Health and Human Performance)	2000
David Gunter	Ph.D. (Anatomy, Physiology, and Pharmacology)	2000

Graduate Students Presently Serving

Major Professor

<u>Name</u>	<u>Degree Expected (Department)</u>
AJ Jackson	Ph.D. (Nutrition)

Committee Member

<u>Name</u>	<u>Degree Expected (Department)</u>
Hadeel Aidhowayan	Ph.D (Nutrition)
Priyadarshni Patel	Ph.D. (Nutrition)

Undergraduate Student Research

Students that have either taken NUFS 4980: Undergraduate Research and Study (currently NTRI 4890) under my supervision, have been awarded a CMB summer fellowship under my supervision, or did an Honors Thesis under my supervision.

<u>Name</u>	<u>Year</u>	<u>Department/College</u>	<u>Type of research experience</u>
Halle Dantzer	2023	COSAM	NTRI 4980
Stewart Montgomery	2020	NTRI	Research Experience

Grace Giles	2020	COSAM	NTRI 4980
Whitt Harrelson	2019	NTRI	Research Experience
Claire Forsythe	2019	COSAM	NTRI 4980
Connor Collier	2019	COSAM	NTRI 4980
Samantha Broghammer	2019	NTRI	Honors Thesis
Elena McLaughlin	2018	NTRI	Research Experience
Amy Miller	2018	NTRI	Research Experience
Josh Glass	2018	NTRI	Research Experience
Samantha Broghammer	2018	NTRI	NTRI 4980
Patrick Downing	2017	NTRI	Research Experience
Katherine Donovan	2017	NTRI	Research Experience
Kelly Miller	2017	NTRI	Research Experience
Peyton Parra	2017	NTRI	NTRI 4980
Sarah Ahern	2016	NTRI	Honors Term Paper
Morgan Graves	2016	NTRI	NTRI 4980
Joshua Bell	2015	Animal Sci.	Research Experience
Donna Tosh	2015	COSAM	Research Experience
Nancy Watson	2015	COSAM	NTRI 4980
Emily Cooper	2015	COSAM	NTRI 4980
James Stewart	2015	COSAM	NTRI 4980
Alex Oldweler	2015	COSAM	Research Experience
Elizabeth Chandler	2015	NTRI	Research Experience
John Richard	2015	COSAM	NTRI 4980
Anna McGuinnis	2015	NTRI	NTRI 4980
Catharine Couch	2014	NTRI	NTRI 4980
Brian Powers	2013	COSAM	NTRI 4980
Mia Donley	2013	NTRI	NTRI 4980
Rebekah DeWitt	2013	NTRI	Summer research experience
Cameron Turner	2013	COSAM	Summer research experience
Garrett Fox	2012	COSAM	NTRI 4980
Anna Bailey	2012	NTRI	Honors class of NTRI 2000
Kate Iampietro	2012	NTRI	NTRI 4980
Leigh Smalley	2011	COSAM	NTRI 4980
Jacob Basarge	2011	COSAM	NTRI 4980
Van Carol	2010	COSAM	NUFS 4980
Samatha Linder	2010	Connecticut College	Summer research experience
Allison Bradford	2009	NUFS	CMB summer fellow
Michelle Mullin	2009	COSAM	NUFS 4980
Teresa Kilborn	2007 - 2008	COSAM	Honors Thesis
Virginia Anderson	2007	NUFS	CMB summer fellow
Travis Petell	2007	COSAM	NUFS 4980
Stephanie Ditmer*	2006	NUFS	CMB summer fellow
Daniel Whisenant	2006	COSAM	NUFS 4980
Joshua Stitzky	2005	COSAM	NUFS 4980
Theresa Garren	2005	NUFS	CMB summer fellow

COSAM - College of Science and Mathematics

NUFS - Dept. of Nutrition and Food Science (older name)

NTRI - Dept. of Nutrition, Dietetics, and Hospitality Management

* - Stephanie Ditmer was awarded first place for best poster presentation in Undergraduate Research Forum.

Publications

Book Chapter

Wang, Y. and D. White. Comprehensive utilization of microalgae: Functional food and biofuel. In Auburn Speaks: On Food Systems. 2014, pp. 226-233.

White, B.D., B. He*, M.H. Porter*, and R.J. Martin. Nutritional Aspects of Neuropeptide Gene Expression, in *Nutrition and Gene Expression: Clinical Aspects*, Berdanier, C. D., Ed., CRC Press, Boca Raton, FL. 1996, pp. 51-82.

Refereed Journal Articles

Foradori, C.D., Healy, J.E., Zimmerman, A.D., Kemppainen, R.J., Jones, M.A., Read, C.C., White, B.D., Yi, K.D., Hinds, L.R., Lacagnina, A.F., Quihuis, A.M., Breckenridge, C.B., and Handa, R.J. Endocrinology. Characterization of activation of the hypothalamic-pituitary adrenal axis by the herbicide atrazine in the female rat. 2018 Sep 1;159(9):3378-3388. doi: 10.1210/en.2018-00474.

Cook, E.A., Y.M. Lee, B.D. White, S.S. Gropper. The diet of inmates: An analysis of a 28-day cycle menu used in a large county jail in the state of Georgia. Journal of Correctional Health Care. 21(4): 390-399, 2015.

Desai, G.S., C. Zheng, T. Geetha, S.T. Mathews, B.D. White, K.W. Huggins, C. Zizza, C. T.L. Broderick, J.R. Babu. The pancreas-brain axis: Insight into disrupted mechanisms associating type 2 diabetes and Alzheimer's disease. Journal of Alzheimer's Disease. 42: 347-356, 2014.

Wanders, D., E.C. Graff, B.D. White, and R.L. Judd. Niacin increases adiponectin and decreases adipose tissue inflammation in high fat diet-fed mice. PLoS ONE 8(8) e7185 doi:10.1371/journal.pone.0071285. 2013.

- Gropper, S.S., F.H. Newell, A. Zaremba-Morgan, M.K. Keiley, B.D. White, K.W. Huggins, K.P. Simmons, L.J. Connell, and P.V. Ulrich. The impact of physical activity on body weight and fat gains during the first 3 years of college. *International Journal of Health Promotion and Education*. 50(6): 296-310, 2012.
- Geetha, T., C. Zheng, W.C. McGregor, B.D. White, M.T. Diaz-Meco, J. Moscat, and J.R. Babu. TRAF6 and p62 inhibit amyloid β -induced neuronal death through p75 neurotrophin receptor. *Neurochemistry International* 61: 1289-1293, 2012.
- Wernette, C.M., B.D. White, and C.A. Zizza. Signaling proteins that influence energy intake may affect unintentional weight loss in the elderly. *Journal Am. Dietetics Associ.* 111: 864-873, 2011.
- Ratcliff, L., S.S. Gropper, B.D. White, D.M. Shannon, and K.W. Huggins. The influence of habitual exercise training and meal form on diet-induced thermogenesis in college-age men. *Int. J. Sport Nutr. Exerc. Metabol.* 21: 11-18, 2011.
- Mansour, M., B.D. White, C. Wernette, J. Dennis, Y.-X. Tao, R. Collins, L. Parker, and E. Morrison. Pancreatic neuronal melanocortin-4 receptor modulates serum insulin levels independent of leptin receptor. *Endocrine* 37(1): 220-230, 2010
- Wang, J. *, C.M. Wernette, R.L. Judd, K.W. Huggins, and B.D. White. Guanethidine treatment does not block the ability of central leptin administration to decrease blood glucose concentrations in streptozotocin-induced diabetic rats. *Journal of Endocrinology* 198(3):541-548,2008.
- Riggs, A.J., B.D. White, and S.S. Gropper. Changes in energy expenditure associated with ingestion of high protein, high fat versus high protein, low fat meals among underweight, normal weight, and overweight females. *Nutrition Journal* 6(1):40-48, 2007.
- Gropper, S.S., S.Yannicelli, B.D. White, and D.M. Medeiros, Plasma Phenylalanine Concentrations are Associated with Hepatic Iron Content in a Murine Model for Phenylketonuria. *Molecular Genetics and Metabolism*. 82: 76-82, 2004.
- White, B.D., F. Du *, and D.A. Higginbotham*. Low Dietary Protein is Associated with an Increase in Food Intake and a Decrease in the In Vitro Release of Radiolabeled Glutamate and GABA from the Lateral Hypothalamus. *Nutritional Neuroscience* 6:361-367, 2003
- Gropper, S.S., D.M.Bader-Crowe *, L.S. McAnulty *, B.D. White, and R.E. Keith. Non-Anemic Iron Depletion, Oral Iron Supplementation and Indices of Copper Status in College-Aged Females. *J. Am. Coll. Nutr.* 21: 545-552, 2002.

- Lin, C.-Y. *, D.A. Higginbotham*, R.L. Judd, and B.D. White. Central Leptin Increases Insulin Sensitivity in Streptozotocin-Induced Diabetic Rats. *Am. J. Physiol. Endocrinol. Metab.* 282: E1084-E1091, 2002
- White, B.D., M.H. Porter*, and R.J. Martin. Protein Selection, Food Intake, and Body Composition in Response to the Amount of Dietary Protein. *Physiology and Behavior* 69: 383-389, 2000.
- White B.D., M.H. Porter*, and R.J. Martin. Effects of Age on the Feeding Response of Moderately Low Levels of Dietary Protein in Rats. *Physiology and Behavior* 68: 673-681, 2000.
- Du, F. *, D.A. Higginbotham*, and B.D. White. Food Intake, Energy Balance, and Serum Leptin Concentrations in Rats Fed Low-Protein Diets. *Journal of Nutrition* 130: 514-521, 2000.
- White, B.D., R.G. Dean and R.J. Martin. An Association Between Low Levels of Dietary Protein, Elevated NPY Gene Expression in the Basomedial Hypothalamus and Increased Food Intake. *Nutritional Neuroscience* 1: 173-182, 1998.
- He, B. *, B.D. White, G.L. Edwards and R.J. Martin. Neuropeptide Y Antibody Attenuates 2-deoxy-D-Glucose Induced Feeding in Rats. *Brain Research* 781: 348-350, 1998.
- He, B. *, B.D. White, G.L. Edwards and R.J. Martin. Longer-Term Fourth Ventricular 5-Thiogluucose Infusion Increases Body Fat in the Rat. *Proceedings of the Society of Experimental Biology and Medicine* 217: 168-172, 1998.
- White, B.D. and R.J. Martin. Evidence for a Central Mechanism of Obesity in the Zucker Rat: Role of Neuropeptide Y and Leptin. *Proceedings of the Society of Experimental Biology and Medicine* 214: 222-232, 1997.
- Edwards, G.L., B.D. White, B. He*, R.G. Dean, and R.J. Martin. Elevated Hypothalamic Neuropeptide Y levels in Rats with Dorsomedial Hindbrain Lesions. *Brain Research* 755: 84-90, 1997.
- White, B.D., G.L. Edwards, and R.J. Martin. Interaction of Type I and Type II Corticosteroid Receptor Stimulation on Carcass Energy and Carcass Water. *American Journal of Physiology* 270: R1099-R1108, 1996.
- Hulsey, M.G., C.M. Pless*, B.D. White and R.J. Martin. ICV Administration of Anti-NPY Antisense Oligonucleotide: Effects on Feeding Behavior, Body Weight, Peptide Content and Peptide Release. *Regulatory Peptides* 56: 207-214, 1995.
- Roberts, T.J. *, M.J. Azain, B.D. White, and R.J. Martin. Rats Treated with Somatotropin Select Diets Higher in Protein. *Journal of Nutrition* 125: 2669-2678, 1995.
- Chen, N.X. *, B.D. White and G.J. Hausman. Glucocorticoid Receptor Binding in Porcine Preadipocytes During Development. *Journal of Animal Science* 73: 722-727, 1995.

- White, B.D., B. He*, R.G. Dean and R.J. Martin. Low Protein Diets Increase Neuropeptide Y (NPY) Gene Expression in the Basomedial Hypothalamus of the Rat. *Journal of Nutrition* 124: 1152-1160, 1994.
- Grossman, B.M., B.D. White, G.L. Edwards and R.J. Martin. Vagotomy and Mercaptoacetate Influence the Effect of Dietary Fat on Macronutrient Selection by Rats. *Journal of Nutrition* 124: 804-809, 1994.
- White, B.D., R.G. Dean, G.L. Edwards and R.J. Martin. Type II Corticosteroid Receptor Stimulation Increases Neuropeptide Y (NPY) Gene Expression in the Basomedial Hypothalamus of the Rat. *American Journal of Physiology* 266: R1523-R1529, 1994.
- White, B.D., K.D. Hunsicker*, and R.J. Martin. Affinity of Hepatic Glucocorticoid Receptors is Influenced by Energy/Feeding Status. *Physiology and Behavior* 54: 1155-1158, 1993.
- Burden, V.R.* , B.D. White and R.J. Martin. Activity-Based Anorexia Increases the Activity of the Hypothalamic-Pituitary-Adrenal Axis in the Rat. *Journal of Nutrition* 123: 1217-1225, 1993.
- White, B.D., R.G. Dean and R.J. Martin. Adrenalectomy Decreases Neuropeptide Y mRNA Levels in the Arcuate Nucleus. *Brain Research Bulletin* 25: 711-715, 1990.
- White, B.D. and R.J. Martin. Alterations in the Binding Characteristics of Glucocorticoid Receptors From Obese Zucker Rats. *Journal of Steroid Biochemistry* 36(6):681-686, 1990.
- Dean, R.G. and B.D. White. Neuropeptide Y Expression in Rat Brain: Effects of Adrenalectomy. *Neuroscience Letters* 114: 339-344, 1990.
- White, B.D., C.B. Corll and J.R. Porter. The Metabolic Clearance Rate of Corticosterone in Lean and Obese Male Zucker Rats. *Metabolism* 38(6): 530-536, 1989.
- White, B.D., W.D. Davenport and J.R. Porter. Responsiveness of Isolated Adrenocortical Cells from Lean and Obese Zucker Rats to ACTH. *American Journal of Physiology* 255: E229-E235, 1988.

Invited Articles

- Martin, R.J., B.D. White and M.G. Hulsey. The Regulation of Body Weight. *American Scientist* 79: 528-541, 1991. (candidate's contribution ~20%, helped write review article)

Published Abstracts

Jackson, A.J. and B.D. White, The glucose response to acute dexamethasone treatment in diabetic, leptin-treated rats. 13th Annual Research Day. p. 32, 2021.

Qi, Yijing, and B.D. White. Glucose Responsiveness to epinephrine in diabetic and non-diabetic leptin-treated rats. 79th Scientific Sessions of American Diabetes Association. San Francisco, Ca. 2019.

Qi, Yijing, and B.D. White. Pharmacological manipulation of glucocorticoid receptor signaling with dexamethasone in diabetic leptin-treated rats. 12th Annual Research Day. p. 36, 2019.

Qi, Yijing and B. Douglas White. Glucose responsiveness to epinephrine in diabetic and non-diabetic leptin-treated rats. 11th Annual Boshell Research Day, Auburn, AL p. 24, 2018.

Qi, Yijing and B. Douglas White. Blood glucose concentrations are not increased by chronic IP glucagon administration in leptin-treated type 1 diabetic rats. 9th Annual Boshell Research Day. Auburn, AL p. 35, 2016.

Wang, Shuhui, Yifen Wang, and B. Douglas White Paradoxical increase in body fat gain and decrease in glucose responsiveness in rats chronically treated with a fucoxanthin extract. 9th Annual Boshell Research Day. Auburn, AL p. 59, 2015.

White, B.D., and K.E. Rowland. Does chronic leptin treatment decrease glucagon responsiveness in STZ-induced type 1 diabetic rat? 7th Annual Boshell Research Day. Auburn AL. p. 56, 2014.

Morgan, Zaremba, A., Keiley, M.K., Gropper, S.S., Connell, L.J., Simmons, K.P., Ulrich, P.V. Newell, F.H., White, B.D., & Huggins, K.W. (2013, February). Strength training may reduce or prevent percent body fat and weight gains for females during the college years. Poster presented at the joint 2013 Annual Conference of the Southeastern Council on Family Relations (SECFR) and the Alabama Association for Marriage and Family Therapy (ALAMFT), Birmingham, AL.

Wanders, D., E.C. Graff. B.D. White, and R.L Judd. Niacin increases adiponectin and decreases markers of adipose tissue inflammation in obese mice. 6th Annual Boshell Research Day, Auburn, AL p. 51, 2013.

Yu, C., and B.D. White. Central leptin treatment reverses the activation of gluconeogenic pathways seen in STZ-induced diabetic rats independent of changing serum glucagon concentrations. 5th Annual Boshell Research Day. Auburn, AL 2012.

White, B.D. Y. Kang, C.M. Wernette, and C. Yu. Glucose output from hepatocytes derived from STZ-induced diabetic rats chronically administered ICV leptin. 4th Annual Boshell Research Day. Auburn, AL 2011.

Yu, C., C.M. Wernette, and B.D. White. Glucagon responsiveness in leptin-treated STZ-induced diabetic rats. 4th Annual Boshell Research Day, Auburn, AL 2011.

White, B.D., C.M. Wernette, Y. Kang, and G.L. Edwards. Hepatic vagotomy does not block the ability of ICV leptin administration to normalize blood glucose concentrations in streptozotocin-induced diabetic rats. 3rd Annual Boshell Research Day. Auburn, AL 2010

Kang, Y., C.M. Wernette, R.L. Judd, and B.D. White. Blunted hepatic glucose production from lactate in leptin-treated streptozotocin-induced diabetic rats. *Experimental Biology*. 2009

Mansour, M.M., R. Collins, D. White, C. Wernette, J. Dennis, E. Morrison, Y-X. Tao. Central activation of melanocortin system modulates pancreatic function independent of leptin. *Experimental Biology* 2009.

Kang, Y., C.M. Wernette, and B.D. White. Hepatic glucose production from lactate and fructose in leptin-treated streptozotocin-induced diabetic rats. 2nd Annual Boshell Research Day, Auburn, AL 2009

Wernette, C.M. M. Gragg, and B.D. White. Effects of leptin and fasting on the expression of genes important for obesity and diabetes. 2nd Annual Boshell Research Day. Auburn, AL 2009.

White, B.D., C.M. Wernette, J.R. Patten, and Y. Kang. Assessment of the gluconeogenic capabilities of leptin-treated diabetic rats by feeding albumin and fructose diets. *Keystone Symposia, Diabetes Mellitus, Insulin Action and Resistance*, Keystone, CO #347, p.105, 2008

Huang, E.Y., T. Kim, B.D. White, and S.T. Mathews. Dexamethasone-induced insulin resistance with increased fetuin-A levels in rats. *Keystone Symposia, Diabetes Mellitus, Insulin Action and Resistance*, Keystone, CO #211, p.80, 2008

White, B.D., C.M. Wernette, M. Gragg, Y. Kang, R.L. Judd. Normalization of blood glucose concentrations in leptin-treated STZ-induced diabetic rats may not be due to enhanced insulin sensitivity. *Keystone Symposia, Diabetes: Molecular Genetics, Signaling Pathways and Integrated Physiology*, Keystone, CO #338, p.90, 2007

Papizan J.B., Kim T, Wernette C, White BD, Mathews ST: A novel role for leptin in regulating phosphorylation status of alpha2-HS glycoprotein, a physiological inhibitor of insulin action. *Keystone Symposia, Diabetes: Molecular Genetics, Signaling Pathways and Integrated Physiology*, Keystone, CO, #302, p.81, 2007

White, B.D., C.M. Wernette, S. Mathews, T. Kim, and R.L. Judd. Leptin-treated diabetic rats become hypoglycemic during a short-term fast and cannot derive glucose from lactate or alanine. *Keystone Symposia, Diabetes Mellitus and the Control of Cellular Energy Metabolism* #332 p. 88. 2006.

White, B.D., J. Wang, D. Bedi, K. Clarke, B. Brunson, M. Ding, and R.L. Judd. Central leptin and insulin administration on peripheral insulin sensitivity and plasma adiponectin concentrations. *FASEB J.* 18(4): A137. 2004

Gropper, S.S, B.D. White, P. Galloway, E. Gilmore, L. Ratcliff, J. Johnson, S.J. Weese. Growth, body weight gain, and change in body mass index in children in three rural Alabama counties. *FASEB J.* 18(5): A901, 2004.

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Alarrayed, F., D. White, J. Porter and A.D. Hartman. Glucocorticoids and cholesterol homeostasis in the obese Zucker rats. *FASEB J.* 2(5):A1215, 1988.

White, D. and J.R. Porter. The metabolic clearance rate of corticosterone in lean and obese Zucker rats. *Physiologist.* 30:125, 1987.

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Porter, J.R., D. Roane, D. White and A.D. Hartman. Does a defect exist in a specific serotonergic brain area of the obese Zucker rat? *Physiologist.* 20:150, 1986.

White, D. and J.R. Porter. Perfusion of adrenal pieces in adult obese and lean Zucker rats. *Fed. Proc.* 44(5):1559, 1985.

White, D., J.F. Pritchett, D.N. Marple, C.H. Rahe and J.T. Bradley. The effects of chronic cold-stress on *in vitro* adrenal corticosterone secretion the rat. *J. Alabama Acad. Sci.* 55(3):140, 1984.

Grants

Grants Funded

- Alabama Agricultural Experiment Station. Leptin: a probe to help understand the regulation of blood glucose concentrations during diabetes (2018-2023) ~ \$12,000 per year.
- Competitive AAES Award. PI –Doug White, "Does central leptin administration decrease the responsiveness to glucagon and epinephrine in type 1 diabetic rats? \$48,322 (8/15 - 7/17)

- AU-IGP. PI-Doug White. Leptin and regulation of serum glucagon concentrations. (4/14-3/15) \$6,000
- Alabama Agricultural Experiment Station. Central leptin and the regulation of blood glucose concentrations. (2013-2018) ~ \$12,000 per year.
- Hatch/Multistate AAES grant. PI – Dr. Yifen Wang Co-investigator – Dr. Doug White, Optimization of the extraction of fucoxanthin and its potential as an antiobesity functional food. (10/10 – 9/12) \$50,000
- Hatch/Multistate AAES grant. Co-PI- Robert Judd. Glucose production in liver cells derived from leptin-treated diabetic rats. (10/08-9/10) \$49,984
- Alabama Agricultural Experiment Station. How does central leptin normalize blood glucose concentrations in STZ-induced diabetic rats. (2008-2013) ~ \$12,000 per year.
- Animal Health and Disease Research. PI – Dr. Mahmoud Mansour, Co-PIs – Drs Ya-Xiong Tao and Doug White. Central Melanocortin activates neural pancreatic MC4R to regulate insulin and glucose levels. (8/07-8/09) \$30,000
- Alabama Agricultural Initiative on National and Human Resources Award. Co-PI - Dr. Robert Judd Determination of the gluconeogenic capability of diabetic rats treated with central leptin. (1/07-9/07) \$21,352
- Alabama Agricultural Experiment Station (AAES) (supplemental grant). Co-PIs- Drs. Suresh Mathews and Kevin Huggins) Lack of central leptin and insulin resistance: a potential connection between obesity and diabetes. (1/07-9/07) \$45,365
- Diabetes Action Research and Education Foundation. Dr. Robert Judd – collaborator. Fasting and Blood Glucose Regulation in STZ-Induced Diabetic Rats Treated with Leptin (1/05 – 12/06) \$60,000.
- AAES Foundation. Co PIs - Drs. Robert Judd and Elaine Coleman. Signal Transduction Pathway for Central Leptin and Insulin as Related to Peripheral Insulin Sensitivity. (7/03-6/06) \$92,293.
- Alabama Agricultural Experiment Station. Lack of Central Leptin and Insulin Resistance: a Potential Connection Between Obesity and Type 2 Diabetes. (2002-2007) ~\$12,000 per year.
- Food Assistance and Nutrition Research Program (FANRP). PI - Dr. Jean Weese, Collaborating PIs - Drs. Doug White, Sareen Gropper, Evelyn Crayton, Bruce Lewis. Diet Quality and Its Relationship to Obesity in Rural Alabama African-American Children. (2002-2003) \$148,424.
- Vice-President for Research Office, Biogrant, Brain Leptin and the Sympathetic Nervous System: A Possible Link between Obesity and Type 2 Diabetes. Candidate as PI. Co-Investigators – Drs Robert Judd and Dean Schwartz. (2001-2003) \$27,865.
- Vice-President for Research Office, Small Equipment Grant, Need for Syringe Pumps to Determine Insulin Sensitivity in Rats. Candidate as PI. (2001) \$3,015
- Southeast Affiliate of the American Heart Association, Beginning-Grant-in-Aid, Low Dietary Protein as a Model of Diet-Induced Leptin Resistance and its Implications on the Development of Obesity. Candidate as PI. (2000-2003) \$98,217.
- Alabama Agricultural Experiment Station, Effects of Diet on the Regulation of Feeding and Body Weight. Candidate as PI. (1997-2002) ~\$12,000 per year.
- USDA, National Research Initiative Competitive Grants Program (NRICGP), Potential Mechanism of Increased Food Intake Associated with Low-Protein Diets. Candidate as PI. (1995-1999) \$130,000.
- USDA, National Research Initiative Competitive Grants Program (NRICGP), Competitive Renewal, Macronutrients and Regulation of Neuropeptide Gene Expression. Dr. Roy

Martin as PI, Candidate as Collaborating Investigator. (1993-1995) \$160,000 (Candidate designed experiments, wrote grant, and performed experiments)

- USDA, National Research Initiative Competitive Grants Program (NRICGP), Macronutrients and Regulation of Neuropeptide Gene Expression. Dr. Roy Martin as PI, Candidate as Collaborating Investigator. (1991-1993) \$150,000 (Candidate designed experiments, wrote grant, and performed experiments)
- Biotechnology Award from the University of Georgia, In situ Hybridization and Immunohistochemistry of Neuropeptides Involved in Energy Balance Regulation. Dr. Roy Martin as PI, Candidate as Collaborating Investigator. (1991-1993) \$61,330 (Candidate designed experiments, wrote grant, and performed experiments)
- Student Fellowship from the Louisiana Affiliate of the American Diabetes Association, Candidate as PI. (1987-1988) \$1,500.

Undergraduate and graduate student funding of their research projects.

- Stewart Montgomery (\$966) (2020-2021) Haggard Family Annual Award in Nutrition.
- Yijing Qi (\$2,000) (2017-2018) Malone-Zallen Graduate Research Fellowship. Leptin and the glucose responsiveness to epinephrine.
- Anna McGuinness (\$1,000) (2015-2016) Haggard Family Annual Award in Nutrition.
- Chenchen Yu (\$1,500) (Feb. 2011) Leptin treatment influence hepatic gene expression in diabetic rats.
- Yuan Kang, (\$2,000) Women's Philanthropy Board Graduate Student Award. (Oct. 2008).
- Chia-Yu Lin, (\$1,000) Graduate School Grant-in-Aid, Sympathetic Nervous Activity may Mediate the Increased Insulin Sensitivity Caused by Brain Leptin in Diabetic Animals. (April 2001)
- D. Allan Higginbotham, (\$1,000) Graduate School Grant-in-Aid, Alteration of Leptin Sensitivity with Low-Protein Diets. (April, 2000)
- Fangyan Du, (\$1,000) Graduate School Grant-in-Aid, Nitrogen Metabolism and Leptin Status in Obese Rats Induced by Low Dietary Protein. (May, 1998)

Service

University Service

Service to the University

- Member, Faculty Grievance Committee (2023-2024)
- Reviewed 2 proposals for the IGP Early Career Development Grant (2020)
- Reviewed 3 proposals for the IGP Interdisciplinary Team Research Grant and one proposal for the IGP Initiation Grant (2019)
- Member, Institutional Animal Care and Use Committee (IACUC) (2015-2018)
- Alternate Member, Institutional Animal Care and Use Committee (IACUC) (2013-2014)
- Member, York Lecture Committee (2013-present)

- Co-chair, University Student Discipline Committee (2012-2014)
- Member, University Student Discipline Committee (2011-2012)
- Member, University Curriculum Committee (2010-2013).
- Member, Patent and Invention Disclosure Committee (2010 -2013)
- Temporary Member, University Faculty Research Committee (finished Leonard Bell's term) (2010).
- Member, Committee for Program Review of Department of Animal Sciences (Auburn University) (2007).
- Member, University Biosafety Committee (2002 – 2005).
- Member, Executive Committee for the CMB Peak of Excellence (2002 – 2006).
- Member, Ad Hoc Committee evaluating the Vice President's Incentive Plan (Dr. Bill Gale – chair) (2002-2003).
- Member, University Biogrant Committee (2001-2004).
- Member, Graduate Student Affairs Committee for the CMB Peak of Excellence (2001-2006).
- Member, Education Subcommittee of Sponsored Programs (2001).
- Member, University Equipment Committee (1999-2001).
- Member, University Biochemistry Curriculum Committee (1998-1999).
- Science judge, Seventh Annual Graduate Student Organization Research Forum (1997).

Service to the College of Human Sciences

- Serve as a search committee member for the Associate Dean for Research for the College of Human Sciences. (2023)
- Served as a search committee member for the Associate Dean of Academic Affairs for the College of Human Sciences. (2019)
- Served as a member of the Strategic Planning Workgroup for the College of Human Sciences. (2019)
- Member, Committee to review nominations for the 2018 New Innovators in Food and Agriculture Research Award. (2018)
- Chair, Search Committee for Associate Dean of Academic Affairs. (2006)
- Member, Diversity Committee (2005-2006)

Service to the Department of Nutritional Sciences

- Member, Search committee for the Department Head for the Dept. of Nutritional Sciences (2023)
- Member, Search committee for a tenure-track position in the department (2023)
- Member, Search committee for the director of the DPD program (2023)
- Chair, Departmental search for Cluster Hire Position (2017)
- Department Representative for the Faculty/Staff Campaign (2016)
- Chair, Departmental search for director of DPD program (2012)
- Member, Departmental Scholarship Committee (2011 - 2019)
- Coordinator, Departmental peer-teaching review program (2011 - present)
- Chair, Departmental search for director of DPD program (2011)
- Ex-Officio Member, Dietary Manager's Advisory Committee (2004-2009)
- Departmental representative in the Faculty Senate (2001-2004)

- Chair, Molecular Nutritionist Faculty Search Committee (2002 – 2003)
- Member, Department Head Search Committee (2002 – 2003)
- Member, Undergraduate NUFs SACS Accreditation Committee (2001)
- Member, Hotel and Restaurant Management (HRMT) Faculty Search Committee. (2001)
- Member, Hotel and Restaurant Management (HRMT) Faculty Search Committee. (1999)
- Chair, Committee for the semester conversion of Nutrition graduate courses. (1997-1998)
- Member, Committee for the semester conversion of Nutrition undergraduate courses. (1997-1998)

Professional Service

- Reviewer for AAES Research Proposals for College of Human Sciences, Auburn University. (2 in 2009, 3 in 2011, 1 in 2014, 1 in 2015, 2 in 2016, 1 in 2017, 1 in 2018, 2 in 2021, 1 in 2022, & 1 in 2023).
- Served as an outside evaluator of a P&T package of the faculty member going up for tenure and promotion (to Associate Professor) at Auburn University at Montgomery (2021).
- Service as a student judge for “This is Research” (2016-2017)
- Ad hoc reviewer of grant proposal for Diabetes UK (2014)
- Served as an outside evaluator of a P&T package of the faculty member going up for tenure and promotion (to Associate Professor) at the University of Tennessee (2014).
- Reviewer for Animal Health and Disease Research Proposal for College of Veterinary Medicine, Auburn University (2011).
- Moderator of graduate student oral presentations at Annual Boshell Research Day (2009 - 2019).
- Ad Hoc Reviewer, proposal from Maryland Industrial Partnerships (MIPS) program (2006).
- Member, Panel for Improving Human Nutrition for Optimal Health, USDA/NRICGP (2000-2001)
- Member, Development and Writing Committee of regional grant, USDA, Cooperative State Research, Education, and Extension Service (CSREES), (Genetic and Dietary Contributions to Obesity) (2000).
- Reviewer, textbook chapter for Wadsworth Publishing. Chapter 9: Energy balance and healthy body weight, in *Nutrition: Concepts and Controversies* bySizer and Whitney, 9th Edition (2001).
- Ad Hoc Reviewer, 7 grant proposals for Improving Human Nutrition for Optimal Health, a program of the USDA, National Research Initiative Competitive Grants Program (NRICGP), (1996-2002).
- Ad Hoc Reviewer, grant proposal for the Whitehall Foundation (1992).
- Ad Hoc Reviewer, 99 articles in the following journals. (1991-present)
 - *American Journal of Clinical Nutrition*
 - *American Journal of Physiology*
 - *Biochemistry, Pharmacology and Behavior*
 - *British Journal of Nutrition*
 - *Canadian Journal of Physiology*
 - *Comparative Biochemistry and Physiology*
 - *Diabetologia*
 - *Domestic Animal Endocrinology*
 - *Experimental Biology and Medicine*

- *Journal of Nutrition*
- *Life Sciences*
- *Metabolism*
- *Neuroscience Letters*
- *Nutrition*
- *Nutrition Research*
- *Nutritional Neuroscience*
- *Obesity*
- *Obesity Research*
- *Peptides*
- *Physiology and Behavior*
- *Scientific Reports*

Community Service

- I was interviewed for a featured story by WSFA NBC Channel 12 Montgomery: "Food Fears: Separating fact from fiction about our food supply." The story was applauded by the American Council on Science and Health, "Food myths debunked by solid science, thanks to WSFA in Alabama (2015). <http://acsh.org/2015/08food-myths-debunked-by-solid-science-thanks-to-wsfa-in-alabama/>
- Participated in a panel discussion about nutrition and obesity at the Jule Collins Smith Museum. It was sponsored by OLLI, the Hunger Solutions Institute, and the Office of Sustainability. Attended by approximately 70 people (2014)
- Source for article by Auburn Plainsman on weight watching over spring break (2011).
- Received two-day training course on C-CERT. Agreed to be a C-CERT member for the Poultry Science Building (2010).
- Speaker at Auburn University employees' "Scale Back Alabama". (2008 & 2010).
- Interview by Auburn Plainsman for "Ask a Professor" column, "Can someone drink a gallon of milk (2010).
- Source for article by Auburn Plainsman on foods that appear healthy, but aren't (2010).
- Source for two newspaper articles by Auburn Plainsman, one on lactose intolerance and one on vegetarianism (2009).
- Source for newspaper article on obesity by Opelika-Auburn News (2008).
- Interviewed by the school newspaper, The Plainsman, concerning the Adkins diet (2004).
- Member, Speaker Bureau of the local Sigma Xi chapter. The Bureau was established to serve Auburn-Opelika area schools as a source for speakers/experts on specialized topics. The candidate's area of specialty is obesity, regulation of food intake and body weight, and human nutrition. (1998-present).
- Panel Discussion Member, Sponsored by KON, Discussed graduate school application process with prospective students. Attended by approximately 40 students (2001).
- Guest Speaker, presented educational seminar to the Auburn District of the American Dietetics Association, The seminar was entitled, "Obesity in the U.S.: Progress in our understanding of the regulation of energy balance. Attended by approximately, 20 dietitians (2002).
- Spokesperson, interviewed by WRBL News concerning the recent advances in obesity research (1998).

- Spokesperson, interviewed by WTVM News concerning the recent advances in obesity research (1998 & 2002).
- Spokesperson, interviewed by University Relations concerning the recent advances in obesity research. The interview was broadcast nationally by various news organizations (1998).
- Guest speaker, Smiths Station Ruritan Club. The new research findings concerning our understanding of the control of body weight. 40-45 attendees (1997).