Ruth B. S. Harris
Regents' Professor
Department of Physiology
Augusta University
1120 15th Street
Augusta GA 30912
ruharris@augusta.edu

EDUCATION:

1981 Ph.D. Physiology
University of Leeds

1977 B.Sc. Food Science and Physiology
University of Leeds

PROFESSIONAL EXPERIENCE:

May 2018 -	Regents Professor, Department of Physiology, Augusta University, Augusta, GA
July 2009 - 2018	Professor, Department of Physiology, Augusta University, Augusta, GA
August 2005 – 2009	Professor, Department of Foods and Nutrition, University of Georgia, Athens, GA.
March 2008- 2009	Adjunct Professor, Department of Cell Biology, University of Georgia, Athens, GA
August 2000 - 2005	Associate Professor, Department of Foods and Nutrition, University of Georgia, Athens, GA.
July 1999 – Aug 2000	Associate Professor, Department of Neuroscience, Pennington Biomedical Research Center, Baton Rouge, LA
Sept. 1994 - 1999	Assistant Professor, Department of Neuroscience, Pennington Biomedical Research Center, Baton Rouge, LA
Nov 1999 – Aug 2000	Adjunct Associate Professor, Department of Life Sciences, Louisiana State University, Baton Rouge, LA
Aug. 1995 - Aug 2000	Adjunct Associate Professor, Department of Veterinary Physiology, Pharmacology and Toxicology, LSU School of Veterinary Medicine, Baton Rouge, LA
Feb-Aug 1994	Visiting Assistant Professor, Department of Medicine, University of Wisconsin, Madison, WI

Oct 1993 - Feb 1994	Visiting Scholar, Department of Neurobiology and Physiology, Northwestern University, Evanston, IL
1990-1993	Senior Research Scientist II, Nutrition Research, Kraft General Foods, Inc., Glenview, IL
1989-1990	Senior Research Scientist I, Nutrition Research, Kraft General Foods, Inc
1988-1989	Research Scientist, Nutrition Research, Kraft General Foods, Inc
1987-1988	Assistant Member, Monell Chemical Senses Center, Philadelphia,
1984-1986	Research Associate, Department of Foods and Nutrition, University of Georgia, Athens, GA
1981-1984	Postdoctoral Fellow, Department of Foods and Nutrition, University of Georgia
1980-1981	Research Assistant, Department of Physiology, University of Leeds, England

Professional Organization Memberships
American Physiology Society: 1996 - present
Society for Neuroscience: 1997 - present
American Institute of Nutrition: 1984 - 2008
North American Association for the Study of Obesity: 1991 – 2005
The Obesity Society: 2009-2012
Society for the Study of Ingestive Behavior: 2001 – present
Society for Experimental Biology and Medicine: 2000 –2005
American Diabetes Association 2010 - 2012

Professional Organization Service
Associate Editor: Experimental Biology and Medicine 2004-2006
Section Editor: Physiology and Behavior 2014-2018
Editorial Board: Experimental Biology and Medicine 2000-2003
Editorial Board: Journal of Nutrition 2000-2007
Editorial Board: American Journal of Physiology: Regulatory, Integrative and Comparative 2001 - present
Editorial Board: American Journal of Physiology, Endocrinology and Metabolism 1998-2000
Editorial Board: Molecular and Cellular Endocrinology 2012-2018
Editorial Board: Physiology and Behavior 2018-present

Ethics Committee: North American Association for the Study of Obesity 1995-2001
Program Committee Member: The Obesity Society 2010-2012
Member External Review Board University of Colorado CNRU 2006-2010
Member External Advisory Committee Pennington Biomedical Research Center COBRE grant

2012 and 2013
Member Organizing Committee, Georgia State University Biotech Symposium 2016
New Investigator Awards Committee: Society for the Study of Ingestive Behavior 2006, 2008
Chair, New Investigator Awards Committee, Society for the Study of Ingestive Behavior, 2018
Long Term Planning Committee: Society for the Study of Ingestive Behavior 2007 –2009
Treasurer: Society for the Study of Ingestive Behavior 2009 –2015
President: Society for the Study of Ingestive Behavior 2018 –2019

Ad hoc member of NIH Endocrinology Study Section 2000 -2003
Member NIH Endocrinology Study Section 2003
Member NIH IPOD Study Section 2004 – June 2007
Ad hoc member of NIH ZRG1 IFCN-2 Special Emphasis Panel June, November 2007
Ad hoc member of NIH ZRG1 DIG-E Special Emphasis Panel, March 2008
Ad hoc member of NIH ZRG1 BCMB-A Special Emphasis Panel June 2009
Member NIH NNRS study section October 2010 – 2014
Co-chair NIH ZRG1EMNR B 02 Special Emphasis Panel July 2015
Ad hoc member NIH IPOD study section June 2016
Ad Hoc member NIH SYN Special Emphasis Panel February 2017
Ad hoc member NIH IPOD study section February 2017
Ad hoc member NIH EMNR-C(02) Special Emphasis Panel Nov 2017
Ad Hoc member NIH ZRG1 ENMR GO2 Special Emphasis Panel Feb 2018
Ad hoc member NIH IPOD study section June 2018
Ad hoc member NIH ZRG1 EMNR-B 02 Integrated Metabolism Topics Nov 2018

Ad Hoc Reviewer
Netherlands Organization for Health Research and Development
National Science Foundation
US-Israel BiNational Agricultural Research and Development Fund
USDA Human Nutrient Requirements Program
Panel Member, USDA Human Nutrient Requirements Program, 1993
NAASO Young Investigators Grant Program
VA Medical Research Service
New Jersey Agricultural Experiment Station
Pork Producers Council
Sheffield Hospitals Charitable Trust Medical Research Committee
Medical Research Council of South Africa
Auburn University Extramural Program
University of Maryland, Maryland Industrial Partnerships Program
STW-Danone Partnership Programme
Boston Nutrition Obesity Research Center pilot grant program
TUM School of Life Sciences of the Technische Universitaet Muenchen faculty search committee

Science
Physiology and Behavior
Nutrition
Nutritional Neuroscience

Neuroendocrinology
American Journal of Clinical Nutrition
FASEB Journal
Appetite
Canadian Journal of Zoology
Metabolism
Obesity Research
Journal of Endocrinology
Neuro-Psychopharmaology and Biological Psychiatry
Stress
Journal of Nutritional Biochemistry
Journal of Comparative Physiology
Cell Biology and Toxicology
Clinical Science
Endocrinology
Regulatory Peptides
International Journal of Obesity
Diabetes
Obesity
Brain Research
Psychoneuroendocrinology
PLOSone
Journal of Applied Physiology
Behavioral Processes
Molecular and Cellular Endocrinology
Genes Brain and Behavior
Brain and Behavior
Hormones and Behavior
Journal of Psychopharmacology
Nutrition Research
Endocrine
Journal of Cellular Biochemistry
Genes and Nutrition
Journal of Medical Foods
Journal of Endocrinology
Journal of Neuroendocrinology
Journal of Investigative Dermatology

Institutional Service Augusta University
Interim Chair, Department of Physiology 2018-
Associate-Chair, Department of Physiology 2012 – 2018
Chair, Physiology Department Search Committee 2010-2018
Chair, Physiology Department Promotions and Tenure Committee 2012-2018
Member, Physiology Department Post-doc Advisory Committee 2011-2018
Member, IACUC 2011-present
Member, LAS Director Search Committee, 2012
Member, Research Misconduct Inquiry Committee, 2014

Member MCG Basic Science Advisory Committee 2017-
Member MCG Basic Science Faculty Salary Committee 2017-2018
Augusta University Research Institute Award Selection Committee, 2018

Teaching Experience
UGA 2002-2008 FDNS 6400 Macronutrient Metabolism 4 credit graduate course
UGA 2002-2008 FDNS 8560 Proposal Writing 1 credit graduate course
MCG, 2011- 2017 Director COGS 8033: Integrated Systems Biology 6 credit graduate course
MCG, 2011-present MEDI 5158 Respiratory Physiology 6 hour of lecture 1st year medical students
College of Nursing, Graduate Student Research Immersion Course, Fall, 2018.
School of Graduate Studies, PSIO 9010, Seminar in Physiology, sixteen discussion sections, Fall, 2018,

Teaching Evaluations UGA 2007-2008 (96 lecture hours/year)
FDNS 6400 2007 evaluation: 4.6
FDNS 8560 2007 evaluation: 4.4
FDNS 6400 2008 evaluation: 4.7
FDNS 8560 2008 evaluation: 4.9

Teaching Evaluations Augusta University 2014-2016
MEDI 5158: Module 3: CP Systems Phase 1 - 2014-15: evaluation: 4.5
MEDI 5158: Module 3: CP Systems Phase 1 - 2015-16: evaluation: 4.3
MEDI 5158: Cardiopulmonary Phase 1: 2016-2017: evaluation 3.7
(6 lecture hours)

COGS 8033 2015: evaluation: 4.2
COGS 8033 2016: evaluation: 4.3
COGS 8033 2017: evaluation: 4.6
(13.5 lecture hours)

Post-doctoral Mentor
Gennady Smagin Ph.D., 1994-1999 Currently Director of Pharmacology, Melior Discovery, Exton, PA.
You Zhou Ph.D. 1996-1998 Currently Research Professor, University of Nebraska-Lincoln, NE
Jun Zhou Ph.D., 1999- 2000 Currently Senior Research Scientist, VA Medical Center, Washington, DC.
Abram Madiehe Ph.D.. 2001 Currently Associate Professor, University of the Western Cape South Africa
John Apolzan, Ph.D., 2009-2012 Currently Assistant Professor Research, PBRC, LA
Amy Ross Ph.D., 2012 Currently Postdoctoral Associate, Georgia State University, GA

Graduate Student Advisor
Jun Zhou, Ph.D., Veterinary Medicine, LSU 1999
Heather Bowen, MS FDNS, UGA 2002
Haiyan Gu, MS FDNS, UGA 2002
Cherie Rooks, MS FDNS, UGA 2004
Blair Wagoner, MS FDNS, UGA 2005

Ariadne Legrende, MS FDNS, UGA 2006
Christina Chotiwat, MS FDNS, UGA 2007
Joanna Miragaya, Ph.D. FDNS, UGA 2007
Samantha Haring, MS FDNS, UGA 2009
Isabell Scherer, MS FDNS, UGA 2009
Bhavna Desai, Ph.D., Physiology, GRU 2014
Marissa Seamon, PhD Candidate, Augusta University

Grants

2017-2021 NIH NIDDK “Hexosamine biosynthetic pathway activation and leptin resistance”
PI: Harris

2004-2019 NIH NIDDK "Leptin and Peripheral Glucose Utilization"
PI: Harris

2015 Diabetes Action Research and Education Foundation “The metabolic basis of obesity caused by consumption of sucrose-containing beverages”.
PI: Harris

2010 Diabetes and Obesity Discovery Institute, MCG “Hyperaldosteronism in Obesity and the Metabolic Syndrome”
PI: Bollag. Co-investigator: Harris

2004-2009 NIH NIMH "Chronic Effects of Acute Stress"
P.I: Harris

2006-2010: CSREES/GEO00932 "Environmental Factors Influencing the Efficiency of Energy Utilization"
PI: Harris

2003-2004 Kraft Foods Inc. " Effects of different dairy proteins on body fat content"
PI: Harris

2003-2004 Kraft Foods, Inc. "The Effect of Dietary Calcium on Body Composition and Insulin Sensitivity in Rats”
PI: Harris

2003: NSF:Center For Behavioral Neuroscience "Do gonadal fat lipid levels control reproductive status and behavior?"
PI: Bartness Co-Investigator: Harris

2002-2005: CSREES/GEO00932 "Environmental Factors Influencing the Efficiency of Energy Utilization"
PI: Harris

2002-2004 Georgia Center on Obesity and Related Disorders (GCORD) "The Effects of Diet and Exercise on the Development of Obesity and Leptin Resistance"

PI: Harris

2001 Burroughs Wellcome Visiting Professor (Dr. Charles Billington)
PI: Harris

2001 Gift from Kraft Foods North America
PI: Harris

2001 - 2003 Lonza Inc. "Dietary effects of L-carnitine, orlistat and Vitamin E on high-fat diet-induced obesity"
PI: Harris Co-PI: Madiehe

2000- 2001 Genentech "Parabiosis Study"
PI: Harris

1999-2003 NIH "CRF binding protein and obesity"
PI: Pelleymounter (Neurocrine) Co-investigator: Harris

1999-2003 NIH NIDDK "Leptin and peripheral glucose utilization"
PI: Harris

1997 Pork Producers Council "Equivalent cholesterolemic effect of pork and chicken fat"
PI: Harris Co-Investigator: LeFevre

1997- 2002 U.S. Army "Studies in Military Nutrition"
PI: Ryan Project Leader "Nutrition, stress and mental performance": Harris

1996-1998 Zymogenetics Corp. "Search for islet growth factors by parabiosis".
Co-PIs: Kahn and Harris

1986 Eli Lilly Co. "Adrenergic Inhibitors of Avian Hepatic Lipogenesis"
Co-PIs: Martin and Harris

1985-1988 NIH RO1DK-36890 "Body Fat Regulation: Identification of Humoral Factors"
PI: Harris

1985-1986 Monsanto Co. "Anti-Lipogenic Factors in Parabiosed Rats"
PI: Harris

Honors and Awards

Faculty Senate of the Medical College of Georgia: Distinguished Faculty Award for Basic Science Teaching 2012.

The Obesity Society: Outstanding Journal Research Article published in Obesity 2012.
AURI Distinguished Research Award 2017

Convention Papers

Benjamin Franklin-Lafayette Seminars on Ingestive Behavior, Frejus France, 2013."The effect of blocking the aqueduct on the response to third ventricle leptin infusion".

Experimental Biology, San Diego, 2012. "Is there a metabolic basis for leptin resistance?" In symposium on "The role of dietary ingredients in leptin resistance."

Benjamin Franklin-Lafayette Seminars on Ingestive Behavior, Frejus France, 2011. "Integrated Effects of Leptin in the Forebrain and Hindbrain on Energy Balance".

University of Auburn, AL January 2009. Boshell Diabetes Symposium. Plenary Speaker. "Can leptin make you fat?"

NAASO, Las Vegas, NV 2004. "Stress and Body Weight in Experimental Conditions". In symposium on "The Role of Stress and the CRF System in Obesity"

Nutrition Week, San Diego, CA. 2002. "Metabolic Effects of Leptin" In Symposium on "Adipose cell biology in obesity".

Society for the Study of Ingestive Behavior Annual Meeting, Santa Cruz, CA. 2002. "Chronic effects of acute stress" In Symposium on "Metabolic consequences of chronic stress".

American College of Sports Medicine: Southeast Regional Chapter 1997: "Leptin as a circulating lipostatic factor".

New York Academy of Sciences sponsored meeting on macronutrient substitutes. Washington, DC, 1996 "Appropriate animal models for clinical studies."

Current Progress in Military Neuroscience Research: Counter-measures for Battlefield Stressors. 1996. "REM sleep deprived rats as a model for stress-induced impairment of reference spatial memory."

Keystone Conference on Nutrition and Central Nervous System Function 1992: "Fat substitutes and regulation of food intake in rats".

FASEB minisymposium on regulation of food intake and energy utilization 1992. "Overview of animal models of efficiency of energy utilization".

Advances in Clinical Nutrition, Robert Wood Medical School 1992: "Fat substitutes"

Invited Seminar Speaker (2000-2019)

Michigan Nutrition Obesity Research Center Annual Symposium, 2019 "Leptin and weight loss- an integrated response"

Medical College of Georgia Department of Neuroscience and Regenerative Medicine Retreat, 2018. "Leptin and weight loss- an integrated response"

College of Veterinary Medicine, Washington State University 2017. "Integrated effects of leptin

in the forebrain and hindbrain"

Medical College of Georgia Department of Physiology, 2017. "Integrated effects of leptin in the forebrain and hindbrain"

Pennington Biomedical Research Center 2016. "Is there a metabolic link between drinking sucrose and leptin resistance?"

Medical College of Georgia Department of Neuroscience and Regenerative Medicine, 2016. "Leptin: it's not just about the forebrain"

Medical College of Georgia Department of Physiology, 2016 "Leptin resistance in rats drinking sucrose"

University of Georgia 2013 "The metabolic link between consumption of sucrose solution and development of leptin resistance"

University of Chicago 2013. "Leptin: it's not just about the forebrain"

Pennington Biomedical Research Center 2012. "Leptin: it's not just about the forebrain".

Georgia State University, Department of Biology 2012 "Disparate & Integrated Effects of Leptin in the Forebrain & Hindbrain".

Medical College of Georgia, Department of Cell Biology 2009 "Can leptin make you fat?"

Burnham Institute, 2009 "Can leptin make you fat?"

University of Alabama, Birmingham Diabetes Institute, Boeshell Conference 2008. "Can leptin make you fat?"

Medical College of Georgia, Physiology Department, 2008 "Leptin in the regulation of body fat"

UGA Department of Cell Biology, 2008 "Stress and body weight regulation in rats"

University of North Carolina, Chapel Hill, Nutrition Department. 2007 "Leptin in the regulation of body fat"

UGA Department of Biochemistry, 2007 "Leptin in the regulation of body fat"

University of Pennsylvania. Institute for Diabetes, Obesity and Metabolism. 2006. "Leptin in the regulation of body fat"

UGA Department of Physiology and Pharmacology 2006 "Chronic effects of acute stress in rats".

Virginia Tech, Department of Human Nutrition, Foods and Exercise, 2005 "Leptin in the regulation of body fat".

Monell Chemical Senses Center, Philadelphia. 2003: "Circulating factors and the regulation of energy balance. What is the role of leptin?"

Department of Cellular Biology, UGA. 2003: "Circulating factors that regulate body fat content: Is leptin the answer?"

Columbia University Appetitive Seminar, New York. 2003: "Chronic changes in body weight of rats exposed to acute stress"

St Luke Roosevelt Hospital, New York. 2003: "Circulating factors and the regulation of energy balance. What is the role of leptin?"

Joslin Diabetes Center, Boston, MA. 2002: "The Circulating Lipostatic Factor : Is Leptin the Answer?"

Neuroscience and Behavior Program, University of Massachusetts, Amherst, MA. 2002: "Circulating Factors in the Regulation of Energy Balance: Is Leptin the Answer ?"

Department of Nutrition, University of Tennessee, Knoxville, TN. 2002: "Circulating Factors in the Regulation of Energy Balance: What is the role of leptin?"

Department of Food Science and Human Nutrition, University of Illinois, Urbana-Champagne 2001: “Circulating factors in the regulation of energy balance: Is leptin the answer?”

Peer reviewed Manuscripts:

1. Harris, R.B.S. and R.J. Martin. 1984. Lipostatic theory: concepts and signals. Nutrition and Behavior 1:253-275.

2. Harris, R.B.S. and R.J. Martin. 1984. Recovery of body weight from below "set-point" in mature female rats. J Nutr 1143-1150.

3. Harris, R.B.S. and R.J. Martin. 1984. Specific depletion of body fat in parabiotic partners of tube-fed obese rats. Am J Physiol 247:R380-R386.

4. Armitage, G., R.B.S. Harris, G.R. Hervey, and G. Tobin. 1984. The relationship between energy expenditure and environmental temperature in congenitally obese and non-obese Zucker rats. J Physiol 350:197-207.

5. Martin, R.J., T.G. Ramsay, and R.B.S. Harris. 1984 Central role of insulin in growth and development. Domestic Animal Endocrinology 1:89-104.

6. Kasser, T.R., R.B.S. Harris, and R.J. Martin. 1985. Level of satiety: fatty acid and glucose metabolism in three sites associated with feeding. Am J Physiol 248:R447-R452.

7. Kasser, T.R., R.B.S. Harris, and R.J. Martin. 1985. .Level of satiety: GABA and pentose shunt activities in three brain sites associated with feeding. Am J Physiol 248: 453-R458

8. Harris, R.B.S. and R.J. Martin. 1986. The metabolic response to a specific "lipid-depleting" factor in parabiotic rats. Am J Physiol 250:R276-R286.

9. Harris, R.B.S. and R.J. Martin. 1986. The influence of diet on the production of a "lipid-depleting" factor in obese parabiotic rats. J Nutr 116:2013-2027.

10. Harris, R.B.S., T.R. Kasser, and R.J. Martin. 1986. Dynamics of recovery of body composition after over-feeding, food restriction or starvation of mature female rats. J Nutr 116:2536-2546.

11. Harris, R.B.S., G.R. Hervey, and G. Tobin. 1987. Body composition of lean and obese Zucker rats in parabiosis. Int J Obesity 11:275-283.

12. Drewry, M.M., R.B.S. Harris, and R.J. Martin. 1988. Developmental changes in response to overfeeding: effect on body composition, liver metabolism and adipocyte cellularity. J Nutr 118:194-198.

13. Harris, R.B.S. 1988. Voluntary food intake of lean and obese Zucker rats in relation to dietary energy and nitrogen content. J Nutr 118:503-514.

14. Harris, R.B.S., M.J. Neal, and R.J. Martin. 1988. The effect of adrenergic agonists and age on lipogenesis in avian hepatocytes. Comp Biochem Physiol C. 91:579-583.

15. Martin, R.J., M.M. Drewry, D. Jewell, R.B.S. Harris, R. Young, and J.S. Patton. 1989. Growth hormone treatment reduces total body fat accumulation in Zucker obese rats. Int J Obesity 13:327-335.

16. Kasser, T.R., R.B.S. Harris, and R.J. Martin. 1989. Site of action of putative lipostatic factor: hypothalamic metabolism of parabiotic rats. Am J Physiol 257:R224-R228.

17. Harris, R.B.S.1989. Body composition and *in vitro* lipid metabolism of overfed hypophysectomized rats. Int J Obesity 13:647-660.

18. Harris, R.B.S., R.C. Bruch, and R.J .Martin. 1989. *In vitro* evidence for an inhibitor of lipogenesis in serum from overfed obese rats. Am J Physiol 257:R326-R336.

19. Harris, R.B.S. and R.J. Martin. 1989. Changes in lipogenesis and lipolysis associated with recovery from reversible obesity in mature female rats. PSEBM 191:82-89.

20. Kasser, T.R., R.B.S. Harris, and R.J. Martin. 1989. Level of satiety: *In vitro* energy metabolism in brain during hypophagic and hyperphagic weight recovery. Am J Physiol 257:R1322-R1327.

21. Mullen, B.J., R.B.S. Harris, and R.J. Martin. 1990. Tumor necrosis factor-α chronically administered in rats: lack of cachectic effect. PSEBM 193:318-325.

22. Harris, R.B.S. and R.J. Martin. 1990. Site of action of putative lipostatic factor: food intake and peripheral pentose phosphate shunt activity. Am J Physiol 259:R45 - R52.

23. Harris, R.B.S. and W.K.Jones. 1991. Physiological responses of mature rats to replacement of dietary fat with a fat substitute. J Nutr 121:1109-1116.

24. Harris, R.B.S. 1991. Growth measurements in Sprague Dawley rats fed very low fat diets. J Nutr 121:1075-1080.

25. Harris, R.B.S. and H. Kor. 1992. Rapid reversal of insulin insensitivity in rats by reducing dietary fat from 40 to 30% of energy. J Nutr 122:1811-1822.

26. Harris, R.B.S. 1991. Adipocyte insulin responsiveness in female Sprague Dawley rats fed a high-fat diet or a low-fat diet containing a fat mimetic. J Nutr 122:1802-1810.

27. Harris, R.B.S. 1993. Food intake, energy intake and body composition of growing rats offered high-or low-fat cafeteria foods. Int J Obesity 17:307-315.

28. Harris, R.B.S. 1994 Factors influencing energy intake and weight gain of rats fed a high-fat or a fat mimetic diet. Int J Obesity 18:632-640.

29. Harris, R.B.S., R.J. Martin, and R.C. Bruch. 1995. Dissociation between food intake, diet composition and metabolism in parabiotic partners of obese rats. Am. J. Physiol. 268:R874-R883.

30. Youngblood, B.D., J. Zhou, G.N. Smagin, and R.B.S. Harris. 1995. Rapid eye movement sleep deprivation (REMd) impairs spatial reference memory in rats. Physiol Behav 61:249-256.

31. Harris, R.B.S., T.R. Ramsay, S.R. Smith, and R.C. Bruch. 1996. Early and late stimulation of Ob mRNA expression in meal-fed and overfed rats. J Clin Invest 97:2020-2026.

32. Smagin, G.N., R.B.S. Harris, and D.H. Ryan. 1996. Corticotropin-releasing factor receptor antagonist infused into the locus coeruleus attenuates immobilization stress-induced defensive withdrawal in rats. Neuroscience Letters 220:167-170.

33. Smagin, G.N., J,. Zhou, R.B.S. Harris, and D.H. Ryan. 1997. CRF receptor antagonist attenuates immobilization stress-induced norepinephrine release in the prefrontal cortex in rats. Brain Res Bull 42:431-434.

34. Zachwieja, J.J., S.L. Hendry, S.R. Smith, and R.B.S. Harris. 1997 Voluntary wheel running decreases adipose tissue mass and expression of leptin mRNA in Osbourne-Mendel rats. Diabetes 46: 1159-1166.

35. Youngblood, B.D., D.H. Ryan, and R.B.S. Harris. 1997 Appetitive operant behavior and free feeding in rats exposed to acute stress. Physiol Behav 62: 827-830.

36. Rybkin, I.I., Y. Zhou, J. Volaufova, G.N. Smagin, D.H. Ryan, and R.B.S. Harris. 1997. The effect of restraint stress on food intake and body weight is determined by time of day. Am J Physiol 273: R1612-R1622.

37. Harris, R.B., J. Zhou, S.D. Weigle, and J. Kuijper. 1997. Recombinant ob protein exchanges between parabiosed mice but does not reach equilibrium. Am J Physiol 272: R1800 -R1808.

38. Harris, R.B.S. 1997. Loss of body fat in lean parabiotic partners of ob/ob mice. Am J Physiol 272: R1809-R1815.

39. Harris, R.B.S., J. Zhou, B.D. Youngblood, G.N. Smagin, and D.H. Ryan. 1998. Failure to induce depression in Wistar and Sprague Dawley rats exposed to chronic mild stress. Physiol Behav 63: 91-100

40. Harris, R.B.S. J. Zhou, S.M. Redmann, G.N. Smagin, S.R. Smith, E. Rodgers and J.J. Zachwieja. 1998. A leptin dose response study in obese (ob/ob) and lean (+/?) mice. Endocrinology 139: 8-19.

41. Harris, R.B.S. 1998 Acute and chronic effects of leptin on glucose utilization in lean mice. BBRC 245: 502-509.

42. Zhou, Y., P.D. Elkins, L.A. Howell, D.H. Ryan, R.B.S. Harris. 1998. Apolipoprotein-E deficiency results in an altered stress responsiveness in addition to an impaired spatial memory in young mice. Brain Res. 788: 151-159.

43. Smagin, G.N., L.A. Howell, D.H. Ryan, E.B. DeSouza, R.B.S. Harris. 1998. Corticotrophin releasing factor (CRF) and urocortin (UCN)-induced anorexia in rats: the role of CRF_2 receptors. NeuroReport 9: 1601-1606.

44. Harris, R.B.S. 1999. Parabiosis between db/db and ob/ob or db/+ mice. Endocrinology. 140: 138-145.

45. Howell, L.A., Harris, R.B.S., C. Clarke, B.D. Youngblood, D.H. Ryan, T.G. Gilbertson. 1999. The effects of acute or repeated restraint stress on taste preferences in rodents. Physiol. Behav. 65: 697-704.

46. Harris, R.B.S., J. Zhou, B.D. Youngblood, I.I. Rybkin, G.N. Smagin, D.H. Ryan. 1998. The effect of repeated restraint on body weight and composition of rats fed low and high fat diets. Am. J. Physiol. 275: R1928-R1938.

47. Zhou, J., X. Yan, D.H. Ryan, R.B.S. Harris. 1999. Sustained effects of repeated restraint stress on muscle and adipocyte metabolism in high fat fed rats. Am. J. Physiol. 277: R757-R766.

48. Zhou, Y., A. Cheshire, L.A. Howell, D.H. Ryan, R.B.S. Harris. 1999. Neuroautoantibody

immunoreactivity in relation to aging and stress in apolipoprotein E-deficient mice. Brain Res. 49: 173-180.

49. Smagin, G.N., L.A. Howell, S. Redmann, D.H. Ryan, R.B.S. Harris. 1999. Prevention of stress-induced weight loss by third ventricle corticotropin releasing factor receptor antagonist. Am. J. Physiol. 276: R1461-R1468.

50. Youngblood, B.D., G.N. Smagin, P.D. Elkins, D.H. Ryan, R.B.S. Harris. 1999. Sleep deprivation and valine effect spatial learning and brain 5-HT metabolism. Physiol. Behav. 67: 643-649.

51. Friedman, M.I., R.B.S. Harris, H. Ji, I. Ramirez, M.G. Tordoff. 1999. Fatty acid oxidation affects food intake by altering hepatic energy status. Am. J. Physiol. 276: R1046-R1053.

52. Bramlett, S.B., J. Zhou, R.B.S. Harris, S.L. Hendry, T.L. Witt, J.J. Zachweija. 1999. Does β-adrenoreceptor blockade attenuate acute exercise induced reductions in leptin mRNA? J. Appl. Physiol. 87: 1678-1683.

53. Shi, M., X. Yan, D.H. Ryan, R.B.S. Harris. 2000. Identification of urocortin mRNA antisense transcripts in rat tissue. Brain Res. Bull. 53: 317-324.

54. Zhou, J., M. Shi, T. Mitchell, G. Smagin, S. Thomas, D.H. Ryan, R.B.S. Harris. 2001. Changes in rat adipocyte and liver glucose metabolism following repeated restraint stress. Proc.Soc.Exp.Biol.Med. 226: 312-319

55. Truett, G.E., J.A. Walker, R.B.S. Harris. 2000. A developmental switch affecting growth in fatty rats. Am. J. Physiol. 279: R1956-R1963.

56. Harris, R.B.S., T.D. Mitchell, X. Yan, J.S. Simpson, S.R. Redmann. 2001. Metabolic responses to leptin in obese db/db mice are strain dependent. Am. J. Physiol 281: R115-R132

57. Zhou, J., M. Shi, S. Redmann, Jr., R. L. Mynatt, D. H. Ryan, R.B.S. Harris. 2001 Exaggerated stress responsiveness in mice over-expressing agouti protein. Physiol. Behav.73: 599-608, 2001.

58. Harris, R.B.S., T.D. Mitchell, J. Simpson, S. M. Redmann, Jr., B. D. Youngblood, D. H. Ryan. 2002. Chronic weight loss in rats exposed to repeated acute restraint stress is independent of energy balance or leptin status. Am.J. Physiol. 282: R77-88.

59. Harris, R.B.S., T.D. Mitchell, R.L. Mynatt. 2002. Leptin responsiveness in mice that ectopically express agouti protein. Physiol. Behav. 75: 159-167.

60. Ansel K.M., R.B.S. Harris, J.G. Cyster. 2002. CXCL13 is required for B1 cell homing, natural antibody production and body cavity immunity. Immunity 16: 67-76.

61. Harris, R.B.S., J. Zhou, T. Mitchell, S. Hebert, D.H. Ryan. 2002. Rats fed only during the light period are resistant to stress-induced weight loss. Physiol. Behav. 76: 543-550.

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