

CURRICULUM VITAE

KIMBERLY P. KINZIG, PH.D.

Office Address:

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Education:

1995 B.S. Psychology, Florida State University, Tallahassee, FL
1997 M.S. Physiological Psychology, University of Washington, Seattle, WA
2002 Ph.D. Neuroscience, University of Cincinnati, Cincinnati, OH

Academic Positions:

2002-2005 Postdoctoral Fellow, Department of Psychiatry and Behavioral Sciences, Johns Hopkins University School of Medicine
2005-2011 Assistant Professor, Department of Psychological Sciences, Neuroscience and Behavior Area, Purdue University
2011- 2021 Associate Professor, Department of Psychological Sciences, Neuroscience and Behavior Area, Purdue University
2021-present Professor, Department of Psychological Sciences, Neuroscience and Behavior Area, Purdue University

Purdue University Research Affiliations

- Faculty Member: Interdisciplinary Life Science Graduate Program (PULSe; 2005-present)
- Faculty Member: Ingestive Behavior Research Center (IBRC; 2005-present)
- Faculty Member: Purdue Institute for Integrative Neuroscience (PIIN; 2018-present)
- Faculty Member: Center for Research on Brain, Behavior, and NeuroRehabilitation (CEREBBRAL; 2019-present)

Research Areas of Interest

- Obesity
- Eating disorders
- Stress
- Neuroendocrinology
- Sex Differences

Professional Memberships:

- Society for Neuroscience
- Society for the Study of Ingestive Behavior
- International Behavioral Neuroscience Society

Honors and Awards:

- NIH predoctoral trainee, 1998-2002
- NIMH postdoctoral trainee, 2002-2004
- Travel Award, Society for the Study of Ingestive Behavior, 2004
- Young Investigator Award Recipient, Society for the Study of Ingestive Behavior, 2004
- Purina Test Diets Scholarship Recipient for study at the Jackson Laboratories, 2004
- Purdue University Seed for Success Award (for grants over \$1,000,000), 2007
- James C. Naylor Award for Teaching Excellence, December 2012
- Purdue University Award for Excellence in Digital Education 2016

Professional Activities/Service

Ad Hoc reviewer for the following journals: Physiology & Behavior; American Journal of Physiology; Appetite, Brain Research; European Journal of Endocrinology; Clinical Interventions on Aging; Regulatory Peptides; Brain and Behavior; European Journal of Physiology; Molecular Nutrition and Food Research; Journal of Nutrition; Endocrinology; Health Psychology Review; International Journal of Developmental Neuroscience; Pharmacology, Biochemistry, and Behavior; Postgraduate Medical Journal; Pediatric Diabetes; Nutrition Research Reviews, PLOS ONE, International Journal of Obesity

Associate Editor:

- *Physiology & Behavior, 2019-present*

Review Editorial Board:

- *Physiology & Behavior, 2017-present*
- Guest Editor: *Physiology & Behavior* Special Issue: Ethics of Eating: Promoting Personal and Global Choices; 2019-2020

Grant Review Panels

- National Institutes of Health, Neurobiology of Motivated Behaviors (NMB), study section, *Ad Hoc* reviewer, 2008-2010.
- National Institutes of Health, Neurobiology of Motivated Behaviors (NMB study section, standing member, 2011-2015.
- National Institutes of Health, National Institute of Diabetes and Digestive and Kidney Diseases DDK-C Subcommittee for review of Kirschstein-NRSA fellowship applications. *Ad hoc* reviewer, June 2014

- Indiana CTSI, review committee for pilot funding for research use of core facilities, January 2019, November 2019.

Contributing Editor

“Psychology: The Adaptive Mind,” Fourth Edition by James Nairne, Wadsworth Publishing Company, 2009.

Section Contributor/Organizer/Speaker:

Interaction of Stress and Drug-Seeking, 5th Purdue Symposium on Psychological Sciences: *Emotion Dysregulation: Consequences and Mechanisms*, 2016

Program Organizer:

- Society for the Study of Ingestive Behavior Annual Meeting 2015
- Society for the Study of Ingestive Behavior Annual Meeting 2014
- Society for the Study of Ingestive Behavior Annual Meeting 2013

Department Service:

Director of Graduate Studies, 2020-present

Faculty advisor for Psi Chi, 2006-2020

Ingestive Behavior Research Center Executive Committee Member

Ingestive Behavior Research Center Curriculum Committee, Chair

Ingestive Behavior Research Center, Training Committee, Chair

Ingestive Behavior Research Center Spring 2006 retreat: organizer

Ingestive Behavior Research Center Spring 2007 biannual symposium: organizing committee member

Faculty mentor, Multicultural Summer Research Program (MARC/Aim), Purdue University, Summer 2006.

Undergraduate Committee, 2013-2015

Graduate Committee, 2013-present

Clinical Search Committee, 2012-13, 2021

Committee for Review of Department Head, 2013

Clinical Search Committee, 2014

Nutrition Science Search Committees, 2014, 2021-22

Committee on Promotion and Tenure, 2016- 2018

Advisory Committee, 2015-2017

Purdue Animal Care and Use Committee Dept. Representative, 2015-2020

Digital Education Committee, 2016-2020

Ingestive Behavior Research Center Biannual Symposium Planning Committee, 2016-present

Grants and Fellowships

Current Support

Indiana CTSI

“Behavioral and Neural Effects of Ketogenic Diets”

07/01/19-06/30/21

Total Direct Costs: \$12,000

Role: PI

Purdue Institute for Integrative Neuroscience (PIIN)

“Behavioral and Neural Effects of Ketogenic Diets”

07/01/19-06/30/21

Total Direct Costs: \$5,000

Role: PI

Purdue Center for Research on Brain, Behavior, and NeuroRehabilitaton (CEREBBRAL)

“Behavioral and Neural Effects of Ketogenic Diets”

12/1/19- 11/30/20

Total Direct Costs: \$2500

Role: PI

Previous Support

Purdue Office of the Executive Vice President for Research and Partnerships,

NIH New R01 Program

“Neuroendocrine Effects of Disordered Eating in Adolescence”

05/01/2016-12/31/17

Total Direct Costs: \$30,000

Role: PI

Purdue Office of the Executive Vice President for Research and Partnerships, College of Health and Human Sciences, and Department of Psychological Sciences

Bridge Funds

10/01/2015-09/30/16

Total Direct Costs: \$30,000

Role: PI

Purdue Research Foundation

“Dietary Influence on Brain and Behavior”

June 2013-August 2013

Total Amount of Award: \$8000

Role: PI

National Institute of Child and Human Development

“Energy Dysregulation: Behavioral and Biological Signals (P01)”

Kimberly P. Kinzig

7/15/2007- 6/30/12

Total Amount of Award: \$4,320,183

Role: Co-director of Analytic Core

National Institute of Diabetes and Digestive and Kidney Diseases

“Effects of Dietary Macronutrients on Regulation of Energy Balance”,

ARRA Administrative Supplement

7/1/2009-6/30/2010

Total Amount of Award: \$75,341

Role: PI

National Institute of Diabetes and Digestive and Kidney Diseases

“Effects of Dietary Macronutrients on Regulation of Energy Balance” A

RRA Supplement for Summer Research for Students

07/01/09-06/30/11

Total Amount of Award: \$17,722

Role: PI

National Institute of Diabetes and Digestive and Kidney Diseases

“Effects of Dietary Macronutrients on Regulation of Energy Balance” (R01)

(07/01/07-06/30/12

\$1,256,445

Role: PI

United States Department of Agriculture

“Functional Foods Containing Novel Carbohydrates for Energy Balance and Improved Health”

6/1/2007- 1/15/2011

Total Amount of Award: \$749,806

Role: Co-PI

If Co-PI, for how much of the total funding are you directly responsible? The Department of Psychological Sciences received \$241,851. Dr. Terry Powley, Dr. Robert Phillips, and Dr. Kinzig each had responsibility for portions of that amount.

National Institute of Diabetes and Digestive and Kidney Diseases

“Low Carbohydrate Diets: Feeding and Endocrine Signaling” (R21)

4/1/2005-3/31/2007

\$276,000

Role: Co-PI

*Sole Co-investigator with PI T.H. Moran.

Kimberly P. Kinzig

National Institute of Diabetes and Digestive and Kidney Diseases
“Meal-Related Endocrine Effects of Anorexia Nervosa “(F32)
1/1/2005- 8/1/2005). Postdoctoral NRSA terminated early due to new faculty position at
Purdue University.

Total Amount of Award: approximately \$60,000

Role: PI

Patents

Role for GLP-1 to mediate responses to disparate stressors

Kimberly P. Kinzig, Randy J. Seeley, and David A. D’Alessio

US Patent No. 7,378,385 B2

**Invited lectures presented at regional, national, and international society meetings
and/or educational institutions**

Ketogenic Diets: Impact on Brain and Behavior (2018) Invited Speaker, 5th International
Seminar on Behavioral Methods, Medical University of Silesia, Katowice,
Poland.

Low-Carbohydrate Diets: Impact on Brain and Behavior. (2014) Invited speaker, Wabash
College Department of Biology, Crawfordsville, IN

Activity-based Anorexia as a Model for Understanding Behavioral and Neuroendocrine
Consequences of Anorexia Nervosa. (2104) Invited symposium speaker at the
Society for the Study of Ingestive Behavior annual meeting, Seattle, WA.

Eating Disorders and Energy Balance. (2014) The Charis Center for Eating Disorders,
Indianapolis, IN.

Brain-Gut Function: Diet Quality and Energy Balance. (2013) Ingestive Behavior
Research Center Conference on Eating Patterns, Diet Quality and Energy
Balance. Purdue University, West Lafayette, IN

The Role of the Brain in Sensing Fat. (2013) Corporate Affiliates Meeting, Department
of Nutrition Science, Purdue University, West Lafayette, IN

Ketogenic Diets: Brain, Behavior, and Cognition. Wake Forest University Medical
Center, Physiology and Pharmacology Conference Series. October 2012.

Ketogenic Diets: Brain, Behavior, and Cognition. IUPUI Psychobiology of Addiction
Center, September, 2012.

Dietary Macronutrients: Energy balance and Cognition. University of Colorado Denver,
School of Medicine, Denver, CO, January 2012

Anorexia in Adolescence: Long-Term Effects on Brain and Behavior. Chronobiology
Meeting, University of Groningen, Groningen, Netherlands, July 2011

Dietary Macronutrients and Energy Balance. Department of Neuroendocrinology,
University of Groningen, Groningen, Netherlands, June 2011

Hyperactivity in an Animal Model of Anorexia Nervosa. Annual Dutch Endo-Neuro-
Psycho Meeting, Lunteren, Netherlands, June 2011

Activity-Based Anorexia: Age- and Sex-Related Effects. Benjamin Franklin Lafayette
Annual Symposium, Frejus, France, June 2011

Long-Term Behavioral and Neuroendocrine Effects of Anorexia in Adolescence.

Benjamin Franklin Lafayette Annual Symposium, Frejus, France July 2009.

Neuroendocrine Effects of Maintenance on a Ketogenic Diet. Indiana University- Purdue University Indianapolis Diabetes Division, March 2009.

The Effects of Dietary Macronutrients on Hypothalamic and Endocrine Controls of Energy Balance, Southern Illinois University School of Medicine, Department of Physiology, October, 2007.

Ketogenic and non-ketogenic high fat diets: effects on hypothalamic gene expression and endocrine profiles. European Winter Conference on Brain Research, Symposium on Central Controls of Food Intake, Les Arc, France, March 2005.

Invited Presentations at Other Institutions

- Dietary Macronutrients and Energy Balance, Southern Illinois University, College of Medicine, 2008.
- Neuroendocrine Effects of Maintenance on a Ketogenic Diet. IUPUI Diabetes Division, March 2009.
- Dietary Macronutrients and Energy Balance. Department of Neuroendocrinology, University of Groningen, Groningen, Netherlands, June 2011
- Anorexia in Adolescence: Long-Term Effects on Brain and Behavior. Chronobiology Meeting, University of Groningen, Groningen, Netherlands, July 2011
- Dietary Macronutrients: Energy balance and Cognition. University of Colorado Denver, School of Medicine, Denver, CO, January 2012
- Ketogenic Diets: Brain, Behavior, and Cognition. IUPUI Psychobiology of Addiction Center, September, 2012.
- Ketogenic Diets: Brain, Behavior, and Cognition. Wake Forest University Medical Center, Physiology and Pharmacology Conference Series. October 2012.

Teaching

Course Director: Eating Disorders and Obesity (PSY392), Department of Psychological Sciences, Fall 2021

Course Director: Elementary Psychology (PSY120), Department of Psychological Sciences, Purdue University, Fall 2005, Fall 2006, Spring 2007, Fall 2007, Fall 2009, Fall 2010.

Course Director: Eating Disorders and Obesity (PSY591E), Department of Psychological Science, Spring 2006, Spring 2007.

Lecturer: Neural Systems and Behavior (BIOL562/PSY512), Purdue University, Spring 2006- 2012. Topic: Neural control of food intake and body weight regulation.

Lecturer: Research in Ingestive Behavior (PSY 692F/F&N 590F), Purdue University, Fall 2006. Topic: Ketogenic diets and energy balance.

Lecturer: Obesity: Behavior, Physiology and Policy (PSY590), Department of Foods and Nutrition, Purdue University, Spring 2008. Topic: Neural controls of energy balance.

Course Director: Neuroscience of Motivated Behavior (PSY322), Department of Psychological Sciences, Purdue University, Spring 2008, Fall 2008, Fall 2009, Fall 2010, Fall 2012, Fall 2013.

Director/Mentor: Research Experience in Psychology (PSY390), Department of Psychological Sciences, Purdue University, Spring 2006-present. Erin Tao (2005-2008), Jenna Henriott (2006), Thomas Getreu (2006-2008), Brandon Davenport (2006-present), Mariah Highley (2006), Osabilu Uwidia (2006), Amanda Fitzsimons (2007), Daniel Schoettmer (2007), Elizabeth Staniforth (2007), Terril Verplaetse (2007-2008), Marshayla McPhaul (2008), Sandesh Reddy (2008), Julian Stephenson (2008-2010), Annette Miller (2008-2009), Jennifer Farney (2008), Alexandria Sulok (2008), Kyle Kurasz (2009-2010), Jesse Blair (2009-present), Sarah Crulcich (2009-2011), Laurel Murdock (2009-2011), Chandler Heim (2010), Jon Koziol (2010), Desiree McCloud (2010-2012), Charles Hill (2010-2012), Allison Schmidt (2011-2013), Kristin Strausborger (2013-2014), Shelby Baugh (2013-2014), Elisa Turney (2013-2014), Hannah Kaplan (2013-2014), Ifeoluwa Ladapo (2014-present), Caroline Hammer (2014), Emily Langston (2015-present), Yu Tang (2015-2016), Jacob Rogers (2016), Alexander Stanley (2017), Brent Bachman (2017-present), Anna Lin Hallowell (2017-present), Alexis Gilliam (2018-2019), Sherrie Adjei (2019), Kelsey Lynch (2019), Emily Stump (2019), Sirigorn Valairucha (2019-present), Eva Cullins (2020-present).

Course Director: Hormones and Behavior (PSY429), Department of Psychological Sciences, Purdue University, Spring 2012, Spring 2013, Spring 2014, Spring 2015, Fall 2016, Fall 2018, Fall 2019, Fall 2020, Spring 2022

Course Director: Animal Models of Feeding Behavior (PSY633), Department of Psychological Sciences, Purdue University, Spring 2013, Spring 2022.

Director/Mentor: Honors Research in Psychological Sciences (PSY498H), Department of Psychological Sciences, Purdue University, Fall 2008-Spring 2011.

Mentor: Department of Psychological Sciences Research Focused Honors Program beginning Spring 2009-Spring 2011.

Course Director: Animal Models of Ingestive Behavior (PSY690), Department of Psychological Sciences, Purdue University, Spring 2009.

Director/Mentor: Research MS Thesis (PSY698), Department of Psychological Sciences, Purdue University, Fall 2006-present.

Director/Mentor: Research Experience in Biology (BIOL394), Department of Biological Science, Summer 2007-present. McKenzie Barber (2015-2017), W. Vincent Pacatang (2015-2017), Isha Mehta (2016-2017), Lauren Ward (2016-2017), Natalie Myers (2019-present), Anisa Bahraim (2019-present), Courtney Woodruff (2019-present), Riley Stehr (2019-present).

Lecturer: Nutritional Biochemistry III (FN607), Department of Foods and Nutrition, Spring 2009-2012. Topic: Neuroendocrine regulation of energy homeostasis.

Course Director: Introduction to Behavioral Neuroscience (PSY222), Department of Psychological Sciences, Purdue University, Maymester 2013, Maymester 2014, Maymester 2015, Summer 2016, Fall 2106-present

Lecturer: A Journey Through the Digestive Tract (FN 590), Spring 2016. Topic: Gut-Brain regulation of digestion.

Mentoring

Mary Ann Honors

Master's thesis (2009)

*Endocrine Effects of Maintenance on a Low-Carbohydrate, High-Fat Ketogenic Diet, Department of Psychological Sciences, Purdue University (published in *Nutrition and Metabolism* 19;6:46).*

Ph.D. dissertation (2012)

“Role of Insulin Dysregulation in the Development of Yoshida Sarcoma-Induced Cancer Cachexia.”

Department of Psychological Sciences, Purdue University

Sara L. Hargrave

Master's thesis 2010

*“Behavioral and Neuroendocrine Effects of Repeated Non-Nutritive Gastric Distension in the Rat” Department of Psychological Sciences, Purdue University (Published in *American Journal of Physiology Gastrointestinal and Liver Physiology* 105(4):269-76).*

Ph.D. dissertation 2014

“High Energy Diet Consumption Predisposes Rats to Cognitive Impairments, Neuroinflammation, and Neurovascular Damage”

Department of Psychological Sciences, Purdue University

Tien-Jui Lee

Ph.D. dissertation 2017

“Effects of Elevated Hypothalamic Inflammation on Obesity and Feeding.”

Interdepartmental Nutrition Program, Purdue University

Elizabeth Sahagun 2018

Master's thesis 2018

“Chronic Stress and Ketogenic Diets.” Department of Psychological Sciences, Purdue University.

Current graduate students

Elizabeth Sahagun (Psychological Sciences, entered program 2016).

Brent B. Bachman (Psychological Sciences, entered program 2020)

Melinda Karth (Psychological Sciences, entered program 2019)

Advisory/Thesis Committees:

Current

Cynthia Alvarado, PULSE, Purdue University
Evan Reister, Department of Nutrition Science, Purdue University
Alisha Aloor, Department of Psychological Sciences, Purdue University
Phuong Mai Lea Nguyen, Department of Food Science, Purdue University
Gabrielle Bonnano, Department of Psychological Sciences, Purdue University

Previous

Abraham Escobedo (2019), Department of Psychological Sciences, Purdue University
Kaitlyn Gilland (2019), Department of Psychological Sciences, Purdue University
Mawra Mohamed El Hindaway (2019), Department of Food Sciences, Purdue University
Janice Lee (2018), Department of Psychological Sciences, Purdue University (M.S.)
Regina Fernandez (2018), Department of Nutrition Sciences, Purdue University (left Purdue University with mentor).
Marcus Weera (2016), Purdue University Interdisciplinary Life Sciences Graduate Program (Ph.D.)
Nicole Schartz (2016), Department of Psychological Sciences, Purdue University (M.S.)
Jaapna Dhillon (2016), Department of Nutrition Sciences, Purdue University (Ph.D.)
Terril Verplaetse (2015), Department of Psychology, Indiana University Purdue University at Indianapolis (Ph.D.)
Like Yan (2015), Department of Food Sciences, Purdue University (Ph.D.)
Matthew Powers (2014), Department of Psychological Sciences, Purdue University (Ph.D.)
Jessica Biddinger (2013) Department of Psychological Sciences, Purdue University (Ph.D.)
Paulien Barf (2012) Department of Neuroendocrinology, University of Groningen (Ph.D.)
Lindsey Schier (2012) Department of Psychological Sciences, Purdue University (Ph.D.)
Scott Oster (2012) Department of Psychology, Indiana University-Purdue University at Indianapolis (Ph.D.)
Jamie Toalston (2012) Department of Psychology, Indiana University-Purdue University at Indianapolis (Ph.D.)
Angela Henderson (2012) Department of Psychology, Indiana University-Purdue University

Published work (~asterisk indicates primary author(s); superscript numbers indicate ¹undergraduate student, ²graduate student)

Sahagun, E.², Bachman, B.B.¹, & **Kinzig, K.P.*** (2021) Sex-specific effects of ketogenic diet after pre-exposure to a high-fat, high-sugar diet in rats. *Nutrition, Metabolism and Cardiovascular Disease*, 10:31(3):961-971.

Kinzig, K. P.*, & Running, C. A. (2020). An introduction to an international conference ethics of eating: Promoting personal and global choices. *Physiology & Behavior*, epub ahead of print.

Lee, T.J.², Hargrave, S.L.², Ward, L.M.¹, & **Kinzig, K.P.*** (2020) Dual functions of neuroinflammation in food intake and metabolic regulation. *Brain Research*, epub ahead of print.

Hasek, L.Y.^{2*}, Phillips, R.J., Hayes, A.R., **Kinzig, K.P.**, Zhang, G., Powley, T. L., & Hamaker, B. R.* (2020). Carbohydrates designed with different digestion rates modulate gastric emptying response in rats. *Journal of Food Sciences and Nutrition*, ePub ahead of print

Sahagun, E.^{2*}, Ward, L.M.¹ & **Kinzig, K.P.*** (2019). Attenuation of stress-induced weight loss with a ketogenic diet. *Physiology & Behavior*, 212:112654.

Hasek, L. Y.^{2*}, Philips, R. J., Zhang, G., **Kinzig, K. P.**, Kim C. Y., Powley, T. L., & Hamaker, B. R. (2018). Dietary slowly digestible starch triggers the gut-brain axis in obese rats with accompanied reduced food intake. *Molecular Nutrition and Food Research*, 62(5).

Lee, T. J.² & **Kinzig, K. P.*** (2017). Repeated adolescent activity-based anorexia influences central estrogen signaling and adulthood anxiety-like behaviors in rats. *Physiology & Behavior*, 171, 199-206.

Hargrave, S. L.^{2*}, Davidson, T. L., Zheng, W., & **Kinzig, K. P.** (2016). Western diets induce blood-brain barrier leakage and alter spatial strategies in rats. *Behavioral Neuroscience*, 130(1), 123-135.

- Hargrave, S. L.^{2*}, Davidson, T. L., Lee, T. J.², & **Kinzig, K. P.*** (2015). Brain and behavioral perturbations in rats following Western diet access. *Appetite*, 93, 35-43.
- Honors, M. A.² & **Kinzig, K. P.*** (2014). Diet-induced obesity and insulin resistance spur tumor growth and cancer cachexia in rats bearing the Yoshida sarcoma. *Nutrition and Cancer*, 66(5);872-8.
- Honors, M. A.² & **Kinzig, K. P.*** (2014). Chronic exendin-4 treatment prevents the development of cancer cachexia symptoms in male rats bearing the Yoshida sarcoma. *Hormones and Cancer*, 5(1); 33-41.
- Honors, M. A.² & **Kinzig, K. P.*** (2013). Characterization of the Yoshida sarcoma” a model of cancer cachexia. *Supportive Care in Cancer*, 21(10);2687-94.
- Davidson, T. L.* , Hargrave, S. L.², Swithers, S. E., Sample, C. H., Fu, X., **Kinzig, K. P.***, & Zheng, W. (2013). Inter-relationships among diet, obesity, and hippocampal-dependent cognitive function. *Neuroscience*, 253C:110-122.
- Hargrave, S. L.^{2*} & **Kinzig, K. P.** (2012). Repeated gastric distension alters food intake and neuroendocrine profiles in rats. *Physiology & Behavior*, 105(4):269-76.
- Honors, M. A.² & **Kinzig, K. P.*** (2012). The role of insulin resistance in the development of muscle wasting during cancer cachexia. *Journal of Cachexia, Sarcopenia, and Muscle*, 3(1):5-11.
- Honors, M. A.²; Hargrave, S. L.²; & **Kinzig, K. P.*** (2011). Glucose tolerance in response to a high fat diet is improved by a high protein diet. *Obesity*, 20(9); 1859-65.
- Kinzig, K. P.*** & Hargrave, S. L.² (2010). Adolescent activity-based anorexia induces increased anxiety-like behavior in adulthood. *Physiology & Behavior*, 101(2):269-76.
- Kinzig, K. P.***, Honors, M. A.², & Hargrave, S. L.² (2010). Insulin sensitivity and glucose tolerance are altered by maintenance on a ketogenic diet. *Endocrinology*, 151(7):3105-14.
- Kinzig, K. P.***, Honors M. A.²; Hargrave S. L.², Davenport B. M.¹, Strader A. D., & Wendt, D. (2010). Sensitivity to the anorectic effects of leptin is retained in rats maintained on a ketogenic diet despite increased adiposity. *Neuroendocrinology*, 92(2):100-11.
- Kinzig, K. P.***, Hargrave, S. L.², & Tao, E. E.¹ (2009). Central and peripheral effects of chronic food restriction and weight restoration in the rat. *American Journal of Physiology Endocrinology and Metabolism*, 296(2):E282-90.

- Kinzig, K. P.*** & Taylor, R. J. (2009). Maintenance on a ketogenic diet: Voluntary exercise, adiposity, and neuroendocrine effects. *International Journal of Obesity*, 33(8):824-30.
- Honors, M. A.², Taylor, R. J., & **Kinzig, K. P.*** (2009). Effects of consuming a high carbohydrate diet after eight weeks of exposure to a ketogenic diet. *Nutrition and Metabolism*, 19;6:46.
- Kinzig, K. P.***, Hargrave, S. L.², & Honors, M. A.² (2008). Binge-type eating attenuates corticosterone and hypophagic responses to restraint stress. *Physiology & Behavior*, 95(1-2):108-113.
- Kinzig, K. P.***, Coughlin, J. W., Redgrave, G. W., Moran, T. H., & Guarda, A. S. (2007). Insulin, glucose and pancreatic polypeptide responses to a test meal in restricting type anorexia nervosa before and after weight restoration. *American Journal of Physiology Endocrinology and Metabolism*, 292(5):E1441-6.
- Kinzig, K. P.***, Hargrave, S. L., Hyun, J., & Moran, T. H., (2007). Energy Balance and hypothalamic effects of a high-protein/low-carbohydrate diet. *Physiology & Behavior*, 92(3):454-60.
- Gao*, S., **Kinzig, K.P.**, Aja, S., Scott, K. A., Keung, W., Kelly, S., Strynadka, K., Chohnan, S., Smith, W. W., Tamashiro, K. L., Ladenheim, E. E., Ronnett, G. V., Tu, Y., Birnbaum, M. J., Lopaschuk, G. D., & Moran, T. H. (2007). Leptin activates hypothalamic acetyl-CoA carboxylase to inhibit food intake. *Proceedings of the National Academy of Sciences*, 104(44):17358-63.
- Kinzig, K. P.***, Scott, K. A., Hyun, J., Bi, S., & Moran, T. H. (2006). Lateral ventricular ghrelin and fourth ventricular ghrelin induce similar increases in food intake and patterns of hypothalamic gene expression. *American Journal of Physiology Regulatory Integrative and Comparative Physiology*, 290(6): R1565-9.
- Moran, T. H.* , Smedh, U., **Kinzig, K. P.**, Scott, K. A., Knipp, S., & Ladenheim, E. E. (2005). Peptide YY (3-36) inhibits gastric emptying and produces acute reductions in food intake in rhesus monkeys. *American Journal of Physiology Regulatory Integrative and Comparative Physiology*, 288(2):R384-8.
- Kinzig, K. P.***, Scott, K. A., & Moran, T. H (2005). Ketogenic and non-ketogenic high fat diets differentially affect endocrine and hypothalamic gene expression profiles. *Obesity Research*, 13(10):1672-82.
- Moran*, T. H. & **Kinzig, K.P.** (2004). Gastrointestinal Satiety Signals: Cholecystokinin. *American Journal of Physiology Gastrointestinal and Liver Physiology*, 286(2): G183-8.

Tschoep M., Castaneda T. R., Joost H. G., Thone-Reineke C., Ortmann S., Klaus S., Hagan M. M., Chandler P. C., Oswald K. D., Benoit S. C., Seeley R. J., **Kinzig K. P.**, Moran T. H., Beck-Sickinger A. G., Koglin N., Rodgers R. J., Blundell J. E., Ishii Y., Beattie A. H., Holch P., Allison D. B., Raun K., Madsen K., Wulff B. S., Stidsen C. E., Birringer M., Kreuzer O. J., Schindler M., Arndt K., Rudolf K., Mark M., Deng X. Y., Withcomb D. C., Halem H., Taylor J., Dong J., Datta R., Culler M., Craney S., Flora D., Smiley D., & Heiman M. L. (2004). Physiology: does gut hormone PYY 3-36 decrease food intake in rodents? *Nature*, 430 (6996): 1 p following 165; discussion 2 p following 165.

Kinzig, K. P.*, D'Alessio, D. A., Herman, J. P., Sakai, R. R., Vahl, T. P., Figueriedo, H., Murphy, E. K., & Seeley, R. J. (2003). CNS glucagon-like peptide-1 receptors mediate endocrine and anxiety responses to interoceptive and psychogenic stressors. *Journal of Neuroscience*, 23(15):6167-70.

Kinzig, K. P.*, D'Alessio, D. A., & Seeley, R. J. (2002). The diverse roles of specific GLP-1 receptors in the control of food intake and the response to visceral illness. *Journal of Neuroscience*, 22(23)10470-6.

Benoit, S. C.* , Tracy, A. L., Air, E. L., **Kinzig, K.**, Seeley, R. J., & Davidson, T. L. (2001). The role of the hypothalamic melanocortin system in behavioral appetitive processes. *Pharmacology Biochemistry and Behavior*, 69(3-4): 603-9.

Stricker, E .M.* , Craven, C. F., Curtis, K. S., **Peacock-Kinzig, K. A.**, Sved, A. F., & Smith, J. C. (2001). Osmoregulation in water-deprived rats drinking hypertonic saline: effect of area postrema lesions. *American Journal of Physiology Regulatory, Integrative and Comparative Physiology*, 280(3): R831-42.

Mystkowski, P.* , Seeley, R. J., Hahn, T. M., Baskin, D. G., Havel, P. J., Matsumoto, A. M., Wilkinson, C. W., **Peacock-Kinzig, K.**, Blake, K. A., & Schwartz, M. W. (2000). Hypothalamic melanin-concentrating hormone and estrogen-induced weight loss. *Journal of Neuroscience*, 20(22): 8637-42.

Stricker, E. M.* , Curtis, K. S., **Peacock, K. A.**, & Smith, J. C. (1997). Rats with area postrema lesions have lengthy eating and drinking bouts when fed ad libitum: Implications for feedback inhibition of ingestive behavior. *Behavioral Neuroscience*, 111, 623-632.

Book Chapters

Kinzig, K.P. (2018). *Neurobiology of Abnormal Emotion and Motivated Behaviors: Animal models of behavioral and neuroendocrine components of eating disorders*. 1st edition. Cambridge, Massachusetts: Academic Press.

Conference Presentations (*asterisk indicates primary author(s); superscript numbers indicate co-authors mentored by the candidate: ¹undergraduate student, ²graduate student)

Hallowell, A.L.^{1*}, Sahagun, E.², Bachman, B. B.¹, & **Kinzig, K.P.*** (2020). The effects of chronic mild stress on female Wistar-Kyoto rats during adolescence. International Behavioral Neuroscience Society virtual poster session (in lieu of annual meeting due to COVID-19).

Bachman, B.B.^{1*}, Sahagun, E.², & **Kinzig, K.P.** Sex-specific effects of a ketogenic diet on metabolic outcomes and stress response after pre-exposure to a high-fat, high-sugar diet. (2020). International Behavioral Neuroscience Society virtual poster session (in lieu of annual meeting due to COVID-19).

Sahagun, E.^{2*}, & **Kinzig, K.P.** (2020). Sex differences in phenotypes of diet-induced obese and diet-resistant rats. Poster presentation at Health and Disease: Science, Technology, Culture, and Policy Poster Session, West Lafayette, IN.

Hallowell, A.L.^{1*}, Sahagun, E.², Bachman, B.B.,¹ & **Kinzig, K.P.** (2020). Sex-specific effects of ketogenic diet on metabolic outcomes and stress exposure after pre-exposure to a highfat, high-sugar diet. Poster presentation at Health and Disease: Science, Technology, Culture, and Policy Poster Session, West Lafayette, IN.

Stehr, R.G.^{1*}, Bahrami, A.S.,^{1*}, Bachman, B.B.¹, Sahagun, E.², & **Kinzig, K.P.** (2020). The effects of Western diet on juvenile physical and cognitive development. Poster presentation at Health and Disease: Science, Technology, Culture, and Policy Poster Session, West Lafayette, IN.

Bachman, B.B.^{1*}, Sahagun, E.², & **Kinzig, K.P.** (2020). Medium-chain triglycerides suppress high-fat diet-induced adiposity in rats, but not when caloric intake is controlled. Poster presentation at Health and Disease: Science, Technology, Culture, and Policy Poster Session, West Lafayette, IN.

Hallowell, A.L.^{1*}, Sahagun, E.², Bachman, B.B.¹, & **Kinzig, K.P.** (2020, in press). The effects of adolescent chronic mild stress in female Wistar and Kyoto rats. Selected for publication in the Journal of Purdue Undergraduate Research.

Bachman, B.B.^{1*}, Sahagun, E.², & **Kinzig, K.P.** (2019). MCT vs LCT: The effects of dietary fat composition on body weight gain and blood ketone levels. Poster presentation at Health and Disease: Science, Technology, Culture, and Policy Poster Session, West Lafayette, IN.

Hallowell, A.L.^{1*}, Bachman, B.B.¹, Sahagun, E.², & **Kinzig, K.P.** (2019). Effects of adolescent mild stress on female Wistar and Kyoto rats. Poster presentation at the Purdue Undergraduate Research Conference, West Lafayette, IN

Bachman, B.B.^{1*}, Sahagun, E.², & **Kinzig, K.P.** (2019). Differential effects of dietary fat on body composition and blood ketone levels. Poster presentation at the Purdue Undergraduate Research Conference, West Lafayette, IN.

Hallowell, A.L.^{1*}, Bachman, B.B.¹, Sahagun, E.², & **Kinzig, K.P.** (2019). The effects of chronic mild stress on female Wistar-Kyoto rats during adolescence. Poster presentation at the Greater Indiana Society for Neuroscience meeting, Indianapolis, IN.

Sahagun, E.A.^{2*}, Ward, L.M.¹, & **Kinzig, K.P.** (2018). Ketogenic diets and stress. Poster presentation at the Greater Indiana Society for Neuroscience meeting, West Lafayette, IN.

Sahagun, E. A.², Lee, T.J.², Tang, Y.¹, Pacatang, W.V.¹, & **Kinzig, K.P.*** (2017). Sex differences in behavioral and metabolic responses to western and ketogenic diets. Poster presentation at the Greater Indiana Society for Neuroscience meeting, Indianapolis, IN.

Sahagun, E. A.², Tang, Y.¹, Pacatang, W.V.¹, & **Kinzig, K.P.*** (2017). Sex differences in responses to a ketogenic diet. Poster presentation at the Purdue University Interdepartmental Nutrition Program, West Lafayette, IN.

Lee, T.J.^{2*}, Hargrave, S.L.², and **Kinzig, K.P.*** (2016). The protective effects of ketogenic diets on inflammation in the hippocampus. Poster presentation at the Purdue University Interdepartmental Nutrition Program, West Lafayette, IN.

Lee, T.J.^{2*}, and **Kinzig, K. P.** (2014). The effects of brain inflammatory cytokines on peripheral lipid metabolism. Poster presentation to the Society for Neuroscience annual meeting, Washington, D.C.

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Hargrave, S. L.^{2*}, Davidson, T.L., and **Kinzig, K. P.** (2014). Western diet-induced hippocampal dependent learning deficits are associated with impaired energy utilization, hippocampal inflammation, and increased regional blood-brain barrier permeability. Poster presentation to the American Psychological Society annual meeting, Washington, D.C.

Hargrave, S. L.^{2*} and **Kinzig, K.P.** (2013). Short-term high-fat, high-glycemic index exposure induces cognitive impairments and transient deficits in hippocampal energy utilization. Poster presentation to the Society for Neuroscience annual meeting, San Diego, CA.

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Honors, M. A.^{2*} & **Kinzig, K. P.** (2012). Chronic Exendin-4 treatment reduces tumor size and cancer cachexia symptoms in rats bearing the Yoshida sarcoma. Poster given to the Obesity & Cancer Discovery Group and Cancer Prevention and Control Group Joint Retreat, West Lafayette, IN

Honors, M. A.^{2*}, Hargrave, S. L.², & **Kinzig, K. P.** (2011). Consumption of a high-protein diet reverses high-fat diet-induced glucose intolerance in the rat. Poster given to the Purdue University Interdepartmental Nutrition Program, West Lafayette, IN.

Hargrave, S. L.^{2*}, & **Kinzig, K. P.** (2010). The effects of repeated non-nutritive gastric distension on satiety mechanisms. Poster presented at the Society for the Study of Ingestive Behavior meeting, Pittsburgh, PA.

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Hargrave, S. L.^{2*}, & **Kinzig, K. P.** (2010). Adolescent activity-based anorexia increases adult anxiety-like behavior. Poster presented at the Department of Foods and Nutrition Corporate Sponsors meeting, West Lafayette, IN.

Honors, M. A.^{2*}, Hargrave, S. L.², & **Kinzig, K. P.** (2010). Insulin sensitivity and glucose tolerance are altered by maintenance on a ketogenic diet. Poster presented at the Department of Foods and Nutrition Corporate Sponsors meeting, West Lafayette, IN.

Honors, M. A.², Davenport, B. M.¹, & **Kinzig, K. P.*** (2009). Plasma endocrine profiles during and following maintenance on a ketogenic diet. *Appetite*, 52(3), 837. Poster presented at the Society for the Study of Ingestive Behavior meeting, Portland, OR.

Kinzig, K.P.* Dietary Macronutrients and Energy Balance (2008). Poster given to the National Institutes of Health NIDDK New Investigator Workshop, Bethesda, MD.
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Kinzig, K.P.* Maintenance on a ketogenic diet increases responsivity to the anorexigenic effects of central and peripheral leptin in the rat. Poster given at the Society for Neuroscience, 2008, Washington, D.C.

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Peacock, K. A.*, & Smith, J. C. (1996). Intakes of ingestion by the rat for emulsions of sucrose or NaCl with corn oil. Poster presented to the Association for Chemoreceptive Senses meeting, Sarasota, FL.

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