

Andrea L. Tracy

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Education

- PhD, 2005 **Purdue University**, Graduate Program in Neuroscience/Dept. of Psychological Sciences
- MS, 2002 **Purdue University**, Dept. of Psychological Sciences
- BA, 1999 **Grinnell College**, Major: Psychology

Positions Held

- 2015-present **Associate Professor**
 Department of Psychology (Neuroscience), Grinnell College
- 2009-2015 **Assistant Professor**
 Department of Psychology (Neuroscience), Grinnell College
- 2008-2009 **Adjunct Assistant Professor**
 Department of Psychology, University of Cincinnati
- 2005-2009 **Post-Doctoral Fellow**
 Department of Psychiatry, University of Cincinnati College of Medicine
- 1999-2005 **Graduate Research Assistant/Teaching Assistant**
 Graduate Program in Neuroscience/Department of Psychological Sciences, Purdue University

Teaching Experience

- 2009-present **Assistant/Associate Professor**
 Department of Psychology/Neuroscience Concentration, Grinnell College
 Undergraduate courses taught: *Physiological Psychology, Psychology of Motivation (topic: ingestive behavior, with lab), Psychopharmacology (with lab), Neuroscience: Foundations, Fallacies, & Future (with lab), Behavior Analysis (with lab), Introduction to Psychology (with lab), Neuroscience Seminar (topics: memory, sleep), Tutorial (first-year seminar, topic: War on Drugs)*
- 2008-2009 **Adjunct Assistant Professor**
 Department of Psychology, University of Cincinnati
 Undergraduate Courses taught: *The Psychology of Food & Eating, Physiological Psychology, Cognitive Neuropsychology*
 Graduate Courses taught: *Biological Bases of Behavior*
- 2001-2005 **Graduate Teaching Assistant**
 Department of Psychological Sciences, Purdue University
(Introduction to Learning, Introduction to Research Methods in Psychology – laboratory sections)

Publications (*italics indicate undergraduate co-author*)

- Tracy AL**, Schurdak JD, Chambers JB, Benoit SC. (2016). Aversion learning can reduce meal size without taste avoidance in rats. *Obesity*, 24, 606-614. doi:10.1002/oby.21379
- Tracy AL**, Wee CJM, Hazeltine GA, Carter RA. (2015). Characterization of attenuated food motivation in high-fat diet-induced obesity: critical roles for time on diet and reinforcer familiarity. *Physiology & Behavior*, 141, 69-77.
- Davidson TL, **Tracy AL**, Schier LA, Swithers SE. (2014). A view of obesity as a learning and memory disorder. *Journal of Experimental Psychology: Animal Learning & Cognition*, 40(3), 261-279.
- Tracy AL**, Wee CJM, Hazeltine GA, Benoit SC. (2013). Regulation of energy intake in humans. In MO Weickert (Ed.), *Obesitext*. <http://endotext.org/obesity>
- Davis JF*, **Tracy AL***, Schurdak JD, Magrisso IJ, Grayson BE, Seeley RJ, Benoit SC. (2013). Roux en Y gastric bypass increases ethanol intake in the rat. *Obesity Surgery*, 23(7), 920-930.
*denotes co-lead authorship
- Davis JF*, **Tracy AL***, Chambers JB, Schurdak J., Heiman JU, Johnson JD, Tschoep MH, Lipton JW, Clegg DJ, Benoit SC. (2008). Dietary fat and diet-induced obesity attenuate psychostimulant reward and mesolimbic dopamine concentration in the rat. *Behavioral Neuroscience*, 122(6), 1257-63.
*denotes co-lead authorship
- Benoit SC, **Tracy AL**, Davis JF, Choi D, Clegg DJ. (2008). Novel functions of orexigenic hypothalamic peptides: From genes to behavior. *Nutrition*, 24, 843-847.
- Tracy AL**, Clegg DJ, Johnson JD, Davidson TL, Benoit SC. (2008). Effects of AgRP (83-132) on appetitive responding for fat and carbohydrate. *Pharmacology, Biochemistry, & Behavior*, 89, 263-271.
- Benoit SC, **Tracy AL**. (2008). Behavioral controls of food intake. *Peptides*, 29, 139-147.
- Tracy AL.**, Davidson TL. (2006). Comparison of nutritive and non-nutritive stimuli in the intestinal taste aversion and classical conditioned taste aversion paradigms. *Behavioral Neuroscience*, 120, 1268-1278.
- Davidson TL, Kanoski SE, **Tracy AL**, Walls EK, Clegg DJ, Benoit SC. (2005). The interoceptive cue properties of ghrelin generalize to cues produced by deprivation. *Peptides*, 26, 1602-1610.
- Tracy AL**, Phillips RJ, Chi MM, Powley TL, Davidson TL. (2004). The gastrointestinal tract "tastes" nutrients: evidence from the intestinal taste aversion paradigm. *American Journal of Physiology-Regulatory, Integrative, and Comparative Physiology*, 287, R1086-R1100.
- Tracy AL**, Jarrard LE, Davidson TL. (2001). The hippocampus and motivation revisited: appetite and activity. *Behavioural Brain Research*, 127, 13-23.
- Benoit SC, **Tracy AL**, Air EA, Kinzig K, Seeley RJ, Davidson TL. (2001). The role of the hypothalamic melanocortin system in behavioral appetitive processes. *Pharmacology, Biochemistry, & Behavior*, 69, 603-609.

Invited Presentations

"Learning about the value of food: the good, the bad, and too much of a good thing", Purdue University Behavioral Neuroscience Seminar Series, March 30, 2016

Selected Meeting Abstracts/Presentations (*italics indicate undergraduate co-author*)

- Riegsecker MJ, Jaime Garcia D, & Tracy AL. (2015). The effect of obesity on hippocampal leptin and spatial memory in the radial arm maze. *Society for the Study of Ingestive Behavior Annual Meeting, Denver, CO.*
- Tyree J, & Tracy AL. (2015). Effects of monotonous versus varied (“junk food”) high-fat diets on obesity and food motivation. *Society for the Study of Ingestive Behavior Annual Meeting, Denver, CO.*
- Tracy AL, & Wiese CW. (2014). Reduced sensitivity to devaluation of food reinforcers in obese rats. *Society for the Study of Ingestive Behavior Annual Meeting, Seattle, WA.*
- Tracy AL, Salgado Ferrer M, & Brynildsen JK. (2013). Dose-dependent effects of leptin on learning and memory: can the detrimental effects of high leptin levels help explain obesity-associated cognitive impairments? *Society for the Study of Ingestive Behavior Annual Meeting, New Orleans, LA.*
- Davis JF, Tracy AL, Schurdak JD, Magrisso IJ, Grayson BE, Seeley RJ, & Benoit SC. (2011). Roux en Y gastric bypass increases ethanol intake in the rat. *Society for the Study of Ingestive Behavior Annual Meeting, Clearwater, FL.*
- Tracy AL, Wee CJM, & Benoit SC (2011). The role of reinforcer exposure and diet duration in high-fat diet-induced motivational deficits. *Society for the Study of Ingestive Behavior Annual Meeting, Clearwater, FL.*
- Tracy AL. (2011). Can a theory of “incentive relativity” account for motivational deficits in obesity? *Winter Conference on Animal Learning & Behavior, Winter Park, CO.*
- Tracy AL, Clegg DJ, Tschoep MH, & Benoit SC. (2009). Differential effects of ghrelin on spatial learning in males and females. *Society for the Study of Ingestive Behavior Annual Meeting, Portland, OR.*
- Tracy AL, Krueger DA, Clegg DJ, Seeley RJ, & Benoit SC. (2008). The role of the mammalian target of rapamycin (mTOR) in nutrient-mediated long-term memory processes. *Society for Neuroscience 38th Annual Meeting, Washington, DC.*
- Tracy, AL, Davis, JF, Heiman, JU, Schurdak, JD, Clegg DJ, & Benoit SC. (2007). Effects of high-fat diet-induced obesity on the efficacy of food and drug reinforcers. *Society for the Study of Ingestive Behavior Annual Meeting, Steamboat Springs, CO.*
- Tracy, AL, Davis, JF, Heiman, JU, Clegg, DJ, Davidson, TL, & Benoit, SC. (2006). Appetite and motivational effects of AgRP on responding for fat and carbohydrate. *Society for the Study of Ingestive Behavior Annual Meeting, Naples, FL.*
- Tracy, AL, Phillips, RJ, Chi, MM, Powley, TL, & Davidson, TL. (2004). Macronutrient generalization in the intestinal taste aversion paradigm. *Society for Neuroscience 34th Annual Meeting.*
- Tracy, AL, Phillips, RJ, Chi, MM, Powley, TL, & Davidson, TL. (2004). Pairing nutrient infusions in the duodenum with malaise (“intestinal taste aversion” paradigm) alters oral intake and selection of nutrients. *Society for the Study of Ingestive Behavior Annual Meeting, San Diego, CA.*
- Tracy, AL & Davidson, TL. (2003). Macronutrient selection: effects of Na-2-mercaptoacetate and caloric content on fat- and carbohydrate-associated flavor cues. *Society for Neuroscience 33rd Annual Meeting, New Orleans, LA.*
- Tracy, AL, Phillips, RJ, Chi, MM, Powley, TL, & Davidson, TL. (2003). Food aversion learning based on intragastric macronutrient cues. *Society for the Study of Ingestive Behavior Annual Meeting, Groningen,, Netherlands.*
- Tracy, AL, & Davidson, TL. (2002). Mercaptoacetate suppresses intake of fat-associated flavors in the presence, but not in the absence, of fat calories. *Society for the Study of Ingestive Behavior Annual Meeting, Santa Cruz, CA.*

*Tracy, AL, Benoit, SC, Seeley, RJ, & Davidson, TL. (2002). Central infusion of the melanocortin receptor antagonist agouti-related peptide (AgRP) suppresses conditioned responding to a carbohydrate-associated cue. *Annual Tri-State Conference on Animal Learning and Behavior, Lexington, KY.*

*Tracy, AL, & Davidson, TL. (2001). Responding based on interoceptive signals produced by 2-DG depends on sucrose anticipation. *Society for the Study of Ingestive Behavior Annual Meeting, Philadelphia, PA.*

Research Support

Principal Investigator (PI)/Co-Investigator

Internal

2012-2013 Harris Faculty Fellowship, Grinnell College
Project: *Role of hippocampal leptin and mammalian target of rapamycin complex 1 (mTORC1) signaling in cognitive function and high-fat-diet-induced cognitive impairments*

2010-present Committee on Support of Faculty Scholarship, Grinnell College
Project: *Neural and behavioral mechanisms of cognitive and motivational deficits in diet-induced obesity*

External

2014 Major Research Instrumentation Grant, National Science Foundation (Co-Investigator)
Project: *MRI: Acquisition of an Infrared (IR) Fluorescence Imager*
Total Award: \$61,815

Post-doctoral

2009 University Research Council Post-Doctoral Fellow Research Program Award, University of Cincinnati

2007-2009 Institutional NRSA Postdoctoral Trainee,
University of Cincinnati Neuroendocrinology of Homeostasis Program

2006-2007 ORISE (Oak Ridge Institute for Science and Education) Postdoctoral Research Fellowship

Pre-doctoral

2001-2004 National Science Foundation Graduate Research Fellowship

1999-2000 Institutional NRSA Predoctoral Trainee,
Purdue University Integrative Neuroscience Program

Professional Service

Ad hoc Reviewer *American Journal of Physiology*
Physiology & Behavior
Pharmacology, Biochemistry, & Behavior
Journal of Nutrition
Neuroscience
Hippocampus

Society for the Study of Ingestive Behavior, Annual Meeting Professional Development Session Coordinator (2014), Panelist (2011-2013)

Society for the Study of Ingestive Behavior, Communications Committee (Member), Social Media Director (2015-present)

Institutional Service

2015-present	Grinnell Science Project, Faculty Director
2015-present	Neuroscience Concentration, Chair
2015-present	Instructional Support Committee, Chair
2014-present	Center for Teaching, Learning and Assessment Advisory Board, Member
2016-present	Task Force on Residential Learning, Member
2010-2012, 2016-present	Institutional Animal Care & Use Committee (IACUC), Member (practicing scientist)
2011-present	Harm Reduction Committee, Ad Hoc Member
2014-2015	Instructional Support Committee, Member
2013-2016	Rosenfield Program Committee, Member
2011, 2013, 2014	Watson Fellowship Selection Committee, Member
2011-2012	Dining Services Committee, Member
2011-2012	Scholarly Women's Achievement Group, Co-convener
2010-2012, 2014	Science Teaching and Learning Group, Coordinator

Professional Affiliations

Society for the Study of Ingestive Behavior

Society for Neuroscience

Faculty for Undergraduate Neuroscience

Phi Beta Kappa, National Liberal Arts Honor Society, Beta of Iowa chapter

Honors and Awards

2006, 2003	New Investigator Award, Society for the Study of Ingestive Behavior
2005	Graduate Student Research Publication Award, First Place, Purdue University Psychological Sciences Department
2005	Graduate Student Research Award, Honorable Mention Sigma Xi (Purdue University chapter)
1999	Psychology Department Honors, Grinnell College