

GORICA D. PETROVICH

Boston College
Psychology and Neuroscience
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Chestnut Hill, MA 02467
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petrovichlab.bc.edu

EDUCATION

- 1991-1997 **PhD** in Neurobiology, University of Southern California
Organization of Amygdalar Projections in the Rat, Advisor: Larry W. Swanson
- 1985-1989 **BS** in Chemistry, University of Belgrade, Serbia, Yugoslavia

POSTDOCTORAL RESEARCH TRAINING

- 2000-2003 **Postdoctoral Fellow**, Department of Psychological and Brain Sciences,
Johns Hopkins University, Advisor: Michela Gallagher, Collaborator: Peter C. Holland
- 1997-2000 **Postdoctoral Fellow**, Neurobiology, University of Southern California,
Advisors: Larry W. Swanson and Richard F. Thompson

ACADEMIC POSITIONS

- 2021-present **Associate Chair**, Department of Psychology and Neuroscience, Boston College
- 2020-present **Professor**, Department of Psychology and Neuroscience, Boston College
- 2013-2020 **Associate Professor**, Department of Psychology and Neuroscience, Boston College
- 2007-2013 **Assistant Professor**, Department of Psychology and Neuroscience, Boston College
- 2003-2007 **Associate Research Scientist** Department of Psychological and Brain Sciences,
Johns Hopkins University

RESEARCH SUPPORT

Ongoing

Gorica D. Petrovich, P.I.
2R01 DK085721, NIDDK
Forebrain circuits and control of feeding behavior by learned cues
04/01/2017-02/28/2023

Completed

Gorica D. Petrovich, P.I.
R01 DK085721, NIDDK
Forebrain circuits and control of feeding behavior by learned cues
06/15/2010-05/31/2016

Sindy Cole, P.I., Gorica D. Petrovich, Mentor
NARSAD Young Investigator Grant, Brain & Behavior Research Foundation
Elucidating the role of the prefrontal cortex in cue-induced overeating: Neuronal ensembles and orexin signaling
01/15/2015–01/14/2017

Completed Research Support—*continued*

Gorica D. Petrovich, P.I.
K01 MH067252, NIMH
Amygdala circuits and control of feeding by learned cues
07/01/2003-06/30/2008

HONORS & AWARDS

- 2021 Faculty Fellowship, Boston College
- 2013 Fellow status in the Association for Psychological Science (APS)
fellow status is awarded to APS members who have made sustained outstanding contributions to the science of psychology
- 2012 Pavlovian Research Award, Pavlovian Society
established by W. Horsley Gantt, awarded annually to one member (particularly younger members) of the Society for significant research accomplishments
- 2012 Alan N. Epstein Research Award, Society for the Study of Ingestive Behavior
awarded annually to one individual for research discoveries that have advanced the understanding of ingestive behavior
- 2011 Faculty Fellowship, Boston College
- 1996 Women in Neuroscience Travel Award
- 1992 University of Southern California Teaching Award
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TEACHING

Courses Developed and Instructed at Boston College

all ratings are out of 5 possible points

PSYC3388 Neurobiology of Eating and Eating Disorders

- Fall 2022 Course overall rating: 4.4; Instructor overall rating: 4.5
- Fall 2021 Course overall rating: 4.7; Instructor overall rating: 4.9
- Fall 2020 Course overall rating: 4.7; Instructor overall rating: 4.8
- Fall 2019 Course overall rating: 4.7; Instructor, overall rating: 4.8
- Fall 2018 Course overall rating: 4.4; Instructor overall rating: 4.7
- Fall 2017 Course avg. across categories: 4.6; Instructor overall rating: 4.6
- Fall 2016 Course avg. across categories: 4.7; Instructor overall rating: 4.9
- Fall 2015 Course avg. across categories: 4.6; Instructor overall rating: 4.7
- Fall 2013 Course/Instructor rating (average across categories): 4.7
- Fall 2012 Course/Instructor rating (average across categories): 4.5
- Fall 2010 Course/Instructor rating (average across categories): 4.7
- Fall 2009 Course/Instructor rating (average across categories): 4.6
- Fall 2008 Course/Instructor rating (average across categories): 4.6

PSYC5585 Advanced Brain Systems: Motivation and Emotion

- Spring 2022 Course overall rating: 4.7; Instructor overall rating: 4.9

TEACHING—*continued*

Spring 2020 Course overall rating: 4.8; Instructor overall rating: 4.9
Spring 2019 Course overall rating: 4.7; Instructor overall rating: 4.8
Spring 2017 Course avg. across categories: 4.9; Instructor overall rating: 4.9
Spring 2016 Course avg. across categories: 4.8; Instructor overall rating: 4.8
Spring 2014 Course/Instructor rating (average across categories): 4.5
Spring 2012 Course/Instructor rating (average across categories): 4.9
Spring 2010 Course/Instructor rating (average across categories): 4.9

PSYC3385 Neurobiology of Motivation and Emotion

Spring 2013 Course/Instructor rating (average across categories): 4.5
Spring 2011 Course/Instructor rating (average across categories): 4.7

Teaching Assistant at University of Southern California

1992-1994 Biochemistry (*University of Southern California Teaching Award in 1992*)

MENTORING

Postdoctoral Fellows

Primary Mentor

Amanda Madden (2018-2020)
Sindy Cole (2011-2017)

Mentoring Committee Member

Kylie Huckleberry, *Northeastern University* (2020-2022)

Graduate Students

Primary Advisor

Zoe Irving (2020-present)
Rebecca Shteyn (2020-present).
Eliza Greiner (2017-present)
Danielle Lafferty (2017-2022)
Sara Keefer (2012-2018)
Lauren Anderson (2012-2017)
Christina Reppucci (2008-2015)
Leighann Chaffee (2008-2009)

Committee Member

Alexandra Ng (2022-present)	Rachel Zacharias (2015-2020)
Emma Russell (2022-present)	Jessica Karanian (2013-2017)
Amanda Chu (2021-present)	Caroline Smith (2012-2017)
Anthony Djerdjaj (2020-present)	Kelly Dumais (2011-2016)
Rosalie Samide (2018-2022)	Laura Paige (2013)
Kristina Wright (2018-2021)	Qingxuan Meng (2011-2012)
Brittany Jeye (2018-2019)	Preston Thakral (2010-2012)
Dylan Spets (2018-2021)	Danielle Stolzenberg (2008-2009)
Madelyn Ray (2017-2021)	Veronica Dobrovitsky (2008-2009)

External Ph.D. Thesis Examiner

Michael Kendig, *The University of Sydney* (2017)

MENTORING—continued

Undergraduate Students

Gabelli Presidential Scholars Mentor

Neha Suneja (2019-2021)

Research Mentoring

Stephanie Moran (2022-present)

Mark Indriolo (2022-present)

Zhe Liu (2022-present)

Olivia Davies(2022-present)

Grace Kern (2021-present)

Allison Pellegrino (2021-2022)

Margaret Sjostrom (2021-2022)

Mary Witt (2021-2022)

William Parsons (2019)

Andy Wang (2019)

Nadia Moumine (2018-2019)

Jennifer Migliaccio (2017-2019)

Katherine Gershfeld (2017-2019)

Michelle Fitzpatrick (2017-2018)

Amanda Jenkins (2016-2017)

Sophia Ramos-Bartolomei (2016-2018)

Connor Milone (2016-2017)

Antonio Santos Roca (2015-2017)

Giovanni Boyer (2016)

Marissa Kellogg (2015-2016)

Andrew Stone (2014-2016)

Hannah Yoon (2014-2016)

Caroline Hone (2014)

Megan Ebner (2013-2016)

Marisa Marotta (2013-2015)

Morgan Smith (2020-2021)

Tiantian Lei (2019-2021)

Timothy Hui (2019-2021)

Erin Corbett (2019-2020)

Nicole Russo (2019-2020)

David Haire II (2019-2020)

Haleigh Torres (2019-2020)

Casey Gallagher (2018-2019)

Anna Whitham (2013-2015)

Kristina Wright (2014)

Nicolas Sanchez (2013-2014)

Elizabeth Choi (2013-2014)

Grant Schum (2013)

John Young (2012- 2013)

Jordan Newmark (2012- 2013)

Trace Fairbaugh (2012)

Songhon Hwang (2012)

Darren Gens (2012-2013)

Heather Mayer (2011-2012; *McNair*)

Michael Hobin (2010-2011)

Meghana Kuthyar (2009–2013)

Mariel Lougee (2009-2010)

Summer Fakhro (2009-2010)

Kathryn Mohr (2008-2009)

MEMBERSHIPS & PROFESSIONAL AFFILIATIONS

Association for Psychological Science (since 2010)

Boston Nutrition Obesity Research Center (since 2012)

Pavlovian Society (since 2005)

Society for Neuroscience (since 1995)

Society for the Study of Ingestive Behavior (since 2010)

PROFESSIONAL SERVICE

2019-2023 Member, Program Committee for the Society for the Study of Ingestive Behavior

Grant Reviewer

2016-2022 *Member*, Neurobiology of Motivated Behavior Study Section (NMB), Center for Scientific Review (CSR), National Institutes of Health (NIH).

2015 *Temporary Member*, NMB, CSR, NIH.

2014 *Temporary Member*, NMB, CSR, NIH.

Ad hoc Manuscript Reviewer

Appetite, Behavioral Neuroscience, Behavioural Brain Research, Brain Research, Eating Disorders Review, eLife, European Journal of Neuroscience, Frontiers, Journal of Comparative Neurology, Journal of Neurophysiology, Journal of Neuroscience, Neurobiology of Learning & Memory, Neuropsychopharmacology, Neuroscience, Obesity, Physiology & Behavior, PNAS, Psychiatry Research, Psychological Science, Psychoneuroendocrinology.

UNIVERSITY SERVICE (BOSTON COLLEGE)

2022-23 University

Biosafety Committee
Laboratory Safety Committee

Department

Graduate Evaluation Committee
Postdoctoral Mentorship Committee
Diversity and Inclusion Committee: Climate/Training Working Group
Peer Visits to Classes/Faculty Mentoring
Faculty Nominating Committee: Fellowship and Award Nominations

2021-22 University

Biosafety Committee

Department

Faculty Search Committee (Behavioral Neuroscience)
Postdoctoral Mentorship Committee
Diversity and Inclusion Committee: Climate/Training Working Group
Peer Visits to Classes/Mentoring for full-time faculty
Faculty Nominating Committee: Fellowship and Award Nominations

2020-21 Faculty Fellowship (Spring)

University

Biosafety Committee

Department

Diversity and Inclusion Committee: Climate Working Group (Summer, Fall)
Peer Visits to Classes/Mentoring for full-time faculty
Faculty Nominating Committee: Fellowship and Award Nominations (Chair)

2019-20 University

Biosafety Committee

Department

Graduate Admissions and Recruitment Committee
Graduate Program Committee
Faculty Nominating Committee: Fellowship and Award Nominations (Chair)
Junior Faculty Mentoring and Assessment of Teaching

2018-19 University

Biosafety Committee

Department

Graduate Admissions and Recruitment Committee
Graduate Program Committee
Faculty Nominating Committee: Fellowship and Award Nominations (Chair)
Junior Faculty Mentoring and Assessment of Teaching

2017-18 University

Biosafety Committee

Department

Faculty Nominating Committee: Fellowship and Award Nominations
Junior Faculty Mentoring and Assessment of Teaching

UNIVERSITY SERVICE—*continued*

2016-17 *University*

Institutional Animal Care and Use Committee (Chair)

Department

Graduate Program Committee

Junior Faculty Mentoring and Assessment of Teaching

2015-16 *University*

Institutional Animal Care and Use Committee (Chair)

Department

Graduate Program Committee

Junior Faculty Mentoring and Assessment of Teaching

2014-15 *Academic Sabbatical*

Junior Faculty Mentoring

2013-14 *University*

Chemical Hygiene Committee

Institutional Animal Care and Use Committee

Department

Junior Faculty Mentoring and Assessment of Teaching

Faculty Search Committee (Clinical Psychology)

2012-13 *University*

Chemical Hygiene Committee

Institutional Animal Care and Use Committee

Department

Chair, Faculty Search Committee (Behavioral Neuroscience)

Graduate Admissions Committee

2011-12 *University*

Chemical Hygiene Committee

Institutional Animal Care and Use Committee

Department

Faculty Search Committee (Behavioral Neuroscience)

2010-11 *University*

Chemical Hygiene Committee

Department

Colloquium Committee

Graduate Program Committee (Spring)

Graduate Recruitment Day Committee

Neuroscience Adjunct Search Committee

Strategic Planning and Preparation for External Review Committee

2009-10 *University*

Chemical Hygiene Committee

Department

Chair, Graduate Admissions & Recruitment Committee

Graduate Evaluation Committee

Undergraduate Neuroscience Program Committee (Spring Chair)

Undergraduate Program Committee

Colloquium Committee

Department Goals/Planning for Internal/External Review

Neuroscience Task Force Committee

UNIVERSITY SERVICE—continued

2008-09 Department

Faculty Search Committee (Behavioral Neuroscience)
Internal Chair Search Committee
Department Goals: Planning for an Internal Review Committee
Colloquium Committee
Undergraduate Program Committee
Graduate Program Committee
Graduate Admissions & Recruitment Committee

2007-08 Department

Department Goals: Planning for an Internal Review Committee
Graduate Program Committee (Spring)
Graduate Admissions Committee
Graduate Recruitment Day Committee

CONFERENCE SYMPOSIUM ORGANIZER & CHAIR

2019 Organizer & Chair

Symposium: "Neural Circuit and Plasticity Mechanisms of Cognitive Control of Feeding Behavior", Society for Neuroscience Annual Meeting, Chicago, Illinois

2017 Co-Chair with Dr. Patricia Sue Grigson

Presidential Symposium: "Neural Processing of Food Cues", Society for the Study of Ingestive Behavior (SSIB) Annual Meeting, Montreal, Quebec

2013 Organizer & Chair

Symposium: "Learning & Feeding", Pavlovian Society Annual Meeting, Austin, Texas

2005 Organizer & Chair

Symposium: "Brain Systems and Conditioned Motivation", Pavlovian Society Annual Meeting, Anaheim, California

INVITED TALKS

2022 Frontal Cortex Gordon Research Conference, Session Speaker: "Reward Processing", Ventura, California (August 7-12)

2019 ObesityWeek Conference, Session Speaker: "My Brain Made Me Eat It –Neural Circuitry Promoting Feeding", Las Vegas, Nevada (November 6)

Society for Neuroscience Meeting Symposium Speaker: "Neural Circuit and Plasticity Mechanism of Cognitive Control of Feeding Behavior", Chicago, Illinois (October 22).

Rutgers Brain Health Institute Colloquium, Rutgers University, New Jersey (May 21)

2018 Florida State University, Program in Neuroscience, Tallahassee, Florida (Dec 5)

2017 ObesityWeek Conference, SSIB Symposium Speaker: "Feeding-related Peptides—Familiar Faces in Unfamiliar Roles", Washington, DC (October 31-November 2)

Utrecht Medical Center, Colloquium Speaker, Utrecht, the Netherlands (June 14)

Dutch Neuroscience Meeting, Main Speaker, Symposium: "How Cues Drive Food Intake", Lunteren, the Netherlands (June 15-16)

Eastern Psychological Association Meeting, Symposium: "Sex-Specific Mechanisms of Emotion and Motivation", Boston, Massachusetts (March 16-18)

INVITED TALKS—*continued*

- Winter Conference on Brain Research, Symposium: “Neural Mechanisms Underlying How Environmental Factors Drive Food Intake”, Big Sky, Montana (January 28-February 2)
- 2016 American Diabetes Association Annual Meeting, 76th Scientific Sessions, New Orleans, Louisiana (June 10-14)
- 2014 National Institute on Drug Abuse, Intramural Research Program Seminar Series, Baltimore, Maryland (May 13)
- The Neurobiology of Stress Workshop, Session: “Stress, Palatable Food and Reward”, University of Cincinnati, Cincinnati, Ohio, (June 17-20)
- ObesityWeek Conference, SSIB Symposium: “Impulsivity & Cue Feeding”, Boston, Massachusetts (November 2-7)
- 2013 Cell Press LabLinks, Symposium: “Appetite and the Brain”, Harvard Medical School (May 7)
Pavlovian Society Meeting, Symposium Speaker: "Learning & Feeding", Austin, Texas (September 26-28)
- Society for Neuroscience Meeting, Symposium Speaker: “How the Lateral Hypothalamus Links Energy Status With Motivated Behaviors”, San Diego, California (November 9-13)
- 2012 Harvard Medical School, BIDMC Endocrine Grand Rounds (February 3)
- Talk at acceptance of the Alan N. Epstein Research Award, Society for the Study of Ingestive Behavior Meeting, Zürich, Switzerland (July 10-14)
- FASEB Summer Conference on Obesity (“From Causes to Consequences to Treatment: Obesity in Perspective”), Snowmass, Colorado (August 5-10)
- 2011 Harvard Medical School, Harvard School of Public Health & Boston University School of Medicine Conference. The 13th Annual Postgraduate Nutrition Symposium: “Your Brain Can Help You Eat Better” (July 13-14)
- 2010 William F. Connell School of Nursing Colloquium Series, Boston College (April 12)
Richard F. Thompson Symposium, University of Southern California (May 20-21)
Society for the Study of Ingestive Behavior Meeting, Pittsburgh, Pennsylvania.
Symposium: "A modern perspective on contributions from lateral hypothalamic neurons and their projections" (July 13-17)
- 2009 Concordia University, Montreal, Quebec, Canada, Center for Studies in Behavioral Neurobiology, Colloquium Series (April 2)
Concordia University, Montreal, Quebec, Canada, Center for Studies in Behavioral Neurobiology, Seminar Series (April 3)
- 2008 Keystone Symposia: “Neuronal mechanisms controlling food intake, glucose metabolism and body weight” (February 19-24)
Ernest Gallo Clinic and Research Center at the University of California San Francisco Colloquium Series, Emeryville, CA (March 19)
- 2007 The John B. Pierce Laboratory, Yale Medical School Colloquium Series (February 5)
Winter Conference on Neural Plasticity, Symposium: “Cerebral hemisphere influences on hypothalamic motivation systems”, Moorea, French Polynesia (February 10-17)
Spring Brain Conference, Symposium: “Corticolimbic modulation of hypothalamic substrates: Insights from studies on ingestive behavior”, Sedona, Arizona (March 14-17)
- 2006 International Selfish Brain Conference: “New aspects on obesity”, Lübeck, Germany (February 23-24)

- Department of Psychiatry, Johns Hopkins University (March 21)
Society for the Study of Ingestive Behavior Meeting, Symposium: "Forebrain and hindbrain: neural network for control of feeding", Naples, Florida (July 18-22)
- 2005 National Institute on Drug Abuse, Intramural Research Program Seminar Series, Baltimore, Maryland (April 14)
Pavlovian Society Meeting, Symposium Speaker: "Brain Systems and Conditioned Motivation", Anaheim, California (September 29-October 1)
- 2002 New York Academy of Sciences Conference, "The amygdala and brain function: Basic and clinical approaches", Galveston, Texas (March 24-26)

PUBLICATIONS

Indicates that an author is/was an undergraduate student in my laboratory

* Indicates that an author is/was a graduate student in my laboratory

& Indicates that an author is/was a postdoctoral fellow in my laboratory

PEER-REVIEWED PUBLICATIONS

N=49

Citations = 7216, h-index: 31, i10-index: 43 (calculated by Google Scholar)

For each citation counts, please see my Google Scholar account at:

<http://scholar.google.com/citations?hl=en&user=HjN9jnYAAAAJ>

Parsons W, *Greiner E, Buczek L, #Migliaccio J, #Corbett E, &Madden AMK and **Petrovich GD** (2022) Sex differences in activation of extra-hypothalamic forebrain areas during hedonic eating. *Brain Structure and Function* 227:2857-2878.

*Keefer SE & **Petrovich GD** (2022) Necessity and recruitment of cue-specific neuronal ensembles within the basolateral amygdala during appetitive reversal learning. *Neurobiology of Learning and Memory* 194:107663.

Petrovich GD (2021) The function of paraventricular thalamic circuitry in adaptive control of feeding behavior. *Frontiers in Behavioral Neuroscience* 16:671096.

*Greiner EM & **Petrovich GD** (2020) The effects of novelty on food consumption in male and female rats. *Physiology & Behavior* 223:112970.

Buczek L, #Migliaccio J & **Petrovich GD** (2020) Hedonic eating: Sex differences and characterization of orexin neurons activation and signaling. *Neuroscience* 436:34-45.

&Cole S, *Keefer SE, *Anderson LC & **Petrovich GD** (2020) Medial prefrontal cortex neural plasticity, orexin receptor 1 signaling, and connectivity with the lateral hypothalamus are necessary in cue-potentiated feeding. *Journal of Neuroscience* 40:1744-1755.

Recommended in F1000 Prime

*Keefer S & **Petrovich GD** (2020) The basolateral amygdala-medial prefrontal cortex circuitry regulates behavioral flexibility during appetitive reversal learning. *Behavioral Neuroscience* 134:34-44 [Epub 2019].

Petrovich GD (2018) Feeding behavior survival circuit: Anticipation and competition. *Current Opinion in Behavioral Sciences* 24:137-142.

Petrovich GD (2018) Lateral hypothalamus as a motivation-cognition interface in the control of feeding behavior. *Frontiers in Systems Neuroscience* 12:14.

- *Reppucci CJ & **Petrovich GD** (2018) Neural substrates of fear-induced hypophagia in male and female rats. *Brain Structure & Function* 223:2925-2947.
- *Anderson LC & **Petrovich, GD** (2018) Distinct recruitment of the hippocampal, thalamic, and amygdalar neurons projecting to the prelimbic cortex in male and female rats during context-mediated renewal of responding to food cues. *Neurobiology of Learning and Memory* 150:25-35.
- *Anderson LC & **Petrovich GD** (2018) Ventromedial prefrontal cortex mediates sex-specific persistent cognitive drive for food. *Scientific Reports* 8:2230.
- &Cole S #Stone AD, **Petrovich GD** (2017) The dorsomedial striatum mediates Pavlovian appetitive conditioning and food consumption. *Behavioral Neuroscience*. 131:447-453.
- *Keefer S, Cole S, **Petrovich GD** (2017) Distinct recruitment of basolateral-medial prefrontal cortex pathways across Pavlovian appetitive conditioning. *Neurobiology of Learning and Memory* 141:27-32.
- *Anderson, L.C. and **Petrovich, G. D.** (2017) Sex specific recruitment of a medial prefrontal cortex-hippocampal-thalamic system during context-dependent renewal of responding to food cues in rats. *Neurobiology of Learning and Memory* 139:11-21.
- *Keefer, S., Cole, S., **Petrovich, G. D.** (2016) Orexin/hypocretin receptor 1 signaling mediates Pavlovian cue-food conditioning and extinction. *Physiology & Behavior* 162:27-36.
- *Reppucci, C.J., and **Petrovich, G.D.** (2015) Organization of connections between the amygdala, medial prefrontal cortex, and lateral hypothalamus: a single and double retrograde tracing study in rats. *Brain Structure and Function* Jul 14: 1-26.
- &Cole, S., Mayer, H.S., and **Petrovich, G.D.** (2015) Orexin/hypocretin-1 receptor antagonism selectively reduces cue-induced feeding in sated rats and recruits medial prefrontal cortex and thalamus. *Scientific Reports* 5:16143.
- *Anderson, L.C., and **Petrovich, G.D.** (2015) Renewal of conditioned responding to food cues in rats: Sex differences and relevance of estradiol. *Physiology & Behavior* 151:338-344.
- Ulrich-Lai YM, Fulton S, Wilson M, **Petrovich G**, Rinaman L. (2015) Stress exposure, food intake and emotional state. *Stress* 18:381-399.
- &Cole, S., Hobin, M.P., and **Petrovich, G.D.** (2015) Appetitive associative learning recruits a distinct network with cortical, striatal, and hypothalamic regions. *Neuroscience* 286:187-202 [Epub Nov 22, 2014].
- *Reppucci, C., #Kuthyar, M., and **Petrovich, G.D.** (2013) Contextual fear cues inhibit feeding in food-deprived male and female rats. *Appetite* 69:186-95.
- &Cole, S., Powell, D.J., and **Petrovich, G.D.** (2013) Differential recruitment of distinct amygdalar nuclei across appetitive associative learning. *Learning & Memory* 20:295-9.
- Petrovich, G.D.** (2013) Forebrain networks and the control of feeding by environmental learned cues. *Physiology & Behavior* 121:10-18. **Selected by Faculty of 1000 Prime**
- Petrovich, G.D.**, Hobin M.P., and *Reppucci, C. (2012) Selective Fos induction in the hypothalamic orexin/hypocretin, but not melanin-concentrating hormone neurons by a learned cue that stimulates feeding in sated rats. *Neuroscience* 224:70-80.
- *Reppucci, C., and **Petrovich, G.D.** (2012) Learned food-cue stimulates persistent feeding in sated rats. *Appetite* 59: 437-47 [Epub June 18, 2012].
- Petrovich, G.D.**, and #Lougee, M.A. (2011) Sex differences in fear cue-induced inhibition of feeding: Prolonged effect in female rats. *Physiology & Behavior* 104:996-1001.

- Petrovich, G.D.** (2011) Learning and the motivation to eat: Forebrain circuitry. *Physiology & Behavior* 104:582-9 [Epub May 3, 2011].
- Petrovich, G.D.**, (2011) Forebrain circuits and control of feeding by learned cues. *Neurobiology of Learning and Memory* 95:152-8.
- Petrovich, G.D.**, Ross, C.A., Mody, P., Holland, P.C., and Gallagher, M. (2009). Central but not basolateral amygdala is critical for control of feeding by aversive conditioned cues. *Journal of Neuroscience* 29:15205-12.
- Petrovich, G.D.**, Ross, C.A., Holland, P.C., and Gallagher, M. (2007) Medial prefrontal cortex is necessary for an appetitive contextual conditioned stimulus to promote eating in sated rats. *Journal of Neuroscience* 27:6436-6441
- Petrovich, G.D.** Ross, C.A., Gallagher, M. and Holland, P.C. (2007) Learned contextual cue potentiates eating in rats. *Physiology & Behavior* 90:362-367.
- Petrovich, G.D.** and Gallagher, M. (2007) Control of food consumption by learned cues: A forebrain-hypothalamic network. *Physiology & Behavior* 91:397-403.
- Holland, P.C., and **Petrovich, G.D.** (2005) A neural systems analysis of the potentiation of feeding by conditioned stimuli. *Physiology & Behavior* 86:747-761.
- Petrovich, G.D.**, Holland, P.C., and Gallagher, M. (2005) Amygdalar and prefrontal pathways to the lateral hypothalamus are activated by a learned cue that stimulates eating. *Journal of Neuroscience* 25:8295-302. **Selected by Faculty of 1000**
- Lee, H.J., Groshek, F., **Petrovich, G.D.**, Cantalini, J.P., Gallagher, M., and Holland, P.C. (2005) Role of amygdalo-nigral circuitry in conditioning of a visual stimulus paired with food. *Journal of Neuroscience* 25:3881-8.
- Scicli, A.P., **Petrovich, G.D.**, Swanson, L.W., and Thompson, R.F. (2004) Contextual fear conditioning is associated with lateralized expression of the immediate early gene c-fos in the central and basolateral amygdalar nuclei. *Behavioral Neuroscience* 118:5-14.
- Petrovich, G.D.**, and Gallagher, M. (2003) Amygdala subsystems and control of feeding behavior by learned cues. *Annals of the New York Academy of Sciences* 985:251-262.
- Petrovich, G.D.**, Setlow, B., Holland, P.C., and Gallagher, M. (2002) Amygdalo-hypothalamic circuit allows learned cues to override satiety and promote eating. *Journal of Neuroscience* 22:8748-8753. **Selected by Faculty of 1000**
- Holland, P.C., **Petrovich, G.D.**, and Gallagher, M. (2002) The effects of amygdala lesions on conditioned stimulus-potentiated eating in rats. *Physiology & Behavior* 76:117-129.
- Petrovich, G.D.**, Canteras, N.S., and Swanson, L.W. (2001) Combinatorial inputs to hippocampal domains and hypothalamic behavioral systems. *Brain Research Reviews* 38:247-289.
- Dong, H.-W., **Petrovich, G.D.**, and Swanson, L.W. (2001) Topography of projections from amygdala to bed nuclei of stria terminalis. *Brain Research Reviews* 38:192-246.
- Dong, H.-W., **Petrovich, G.D.**, Watts, A.G., and Swanson, L.W. (2001) Basic organization of projections from the oval and fusiform nuclei of the bed nuclei of the stria terminalis in adult rat brain. *Journal of Comparative Neurology* 436:430-455.
- Petrovich, G.D.**, Scicli, A.P., Thompson, R.F., and Swanson, L.W. (2000) Associative conditioning of enkephalin mRNA levels in neurons of the central nucleus of the amygdala. *Behavioral Neuroscience* 114:681-686.
- Dong, H.-W., **Petrovich, G.D.** and Swanson, L.W. (2000) Organization of projections from the juxtacapsular nucleus of the BST: A PHAL study in the rat. *Brain Research* 859:1-14.

Swanson, L.W., and **Petrovich, G.D.** What is the Amygdala? (1998) *Trends in Neurosciences* 21:323-331.

Petrovich, G.D., and Swanson, L.W. (1997) Projections from the lateral part of the central amygdalar nucleus to the postulated fear conditioning circuit. *Brain Research* 763:247-254.

Petrovich, G.D., Risold, P.Y., and Swanson, L.W. (1996) Organization of projections from the basomedial nucleus of the amygdala: A PHAL study in the rat. *Journal of Comparative Neurology* 374:387-420.

Soskic´, V., Maelicke, A., **Petrovic´, G.** Ristic, B., Petrovic´, J. (1991). Synthesis of some phenothiazine derivatives as potential affinity ligands for the central dopamine receptors. *Journal of Pharmacy and Pharmacology* 43:27-30.

BOOK CHAPTERS

Petrovich, G.D. (2019) Orexins and Control of Feeding by Learned Cues. In: *The Orexins/Hypocretins System: Functional Roles and Therapeutic Potential*
Editors: Jim R. Fadel and Joshua A. Burk.

Petrovich, G.D. (2001) The Amygdala. In: *International Encyclopedia of the Social & Behavioral Science*.

CONFERENCE PRESENTATIONS AND PUBLISHED ABSTRACTS

Indicates that an author is an undergraduate student in my laboratory

* Indicates that an author is a graduate student in my laboratory

& Indicates that an author is a postdoctoral fellow in my laboratory

2022

*Greiner E and **Petrovich GD.** Recruitment of cortical and thalamic projections to the central amygdala in the control of feeding behavior under novelty. *Society for Neuroscience Meeting.*

*Irving Z, *Greiner E, and **Petrovich GD.** Sex specific recruitment of the basolateral amygdala complex after habituation to novel food and feeding context. *Society for Neuroscience Meeting.*

*Shteyn R, *Lafferty DS, and **Petrovich GD.** Impact of hunger state on palatable food-cue associative learning and consumption in males and females. *Society for Neuroscience Meeting.*

* Irving Z, *Greiner E, and **Petrovich GD.** Sex differences in selective Fos expression in the amygdala after habituation to novel food and novel context. *Society for the Study of Ingestive Behavior Meeting* (virtual poster presentation).

*Shteyn R, *Lafferty DS, and **Petrovich GD.** The impact of sex and hunger state on palatable food consumption and associative learning. *Society for the Study of Ingestive Behavior Meeting* (virtual poster presentation).

2021

*Irving Z., *Greiner E., and **Petrovich, G.D.** Fos expression in the basomedial amygdala after habituation to novel food and novel context. *Society for Neuroscience Meeting.*

*Greiner E., and **Petrovich, G.D.** Activation of the amygdala & paraventricular thalamus after novelty exposure during consumption in male and female rats. *Society for Neuroscience Meeting.*

- *Shteyn R., *Lafferty, D.S., and **Petrovich, G.D.** Behavioral examination of sex differences in food motivation and consumption under physiological satiety and hunger. *Society for Neuroscience Meeting.*

2019

- *Greiner E.M., and **Petrovich, G.D.** Fos expression in central amygdala following novel food and context exposure. *Society for Neuroscience Meeting.* *BNORC Travel Award recipient.
- *Lafferty D.S., and **Petrovich, G.D.** Investigation of the prelimbic cortex neuronal ensembles plasticity during context-mediated renewal of responding to food cues. *Society for Neuroscience Meeting.* *BNORC Travel Award recipient.
- &Madden, A.M.K., and **Petrovich, G.D.** DREADD silencing of neurons in the paraventricular thalamus interferes with context-mediated renewal of food seeking in a sex-dependent manner. *Society for Neuroscience Meeting.*

2018

- *Greiner E.M., and **Petrovich, G.D.** Sex differences in food consumption under novelty. *Society for the Study of Ingestive Behavior Meeting.*
- *Lafferty D.S., and **Petrovich, G.D.** The effect of context familiarity on context-induced appetitive renewal in male and female rats. *Pavlovian Society Meeting.*
- *Greiner E.M., and **Petrovich, G.D.** The effects of novelty on food consumption in male and female rats. *Society for Neuroscience Meeting.*
- *Lafferty D.S., and **Petrovich, G.D.** Context-induced renewal of responding to food cues: The effect of context pre-exposure in male and female rats. *Society for Neuroscience Meeting.*

2017

- *Keefer, S.E. and **Petrovich, G.D.** Behavioral flexibility during Pavlovian appetitive reversal learning is regulated by the basolateral amygdala-medial prefrontal cortex pathway. *Boston Area Neuroscience Group Meeting.*
- *Anderson, L.C. and **Petrovich, G.D.** DREADD manipulations of ventromedial prefrontal cortex neurons during renewal of Pavlovian conditioned responding to food cues in male and female rats. *Boston Area Neuroscience Group Meeting.*
- *Keefer, S.E. and **Petrovich, G.D.** Basolateral amygdala-medial prefrontal cortex pathway regulates behavioral flexibility during Pavlovian appetitive reversal learning. *Society for the Study of Ingestive Behavior Meeting.*
- *Keefer, S.E., &Cole, S., *Anderson, L.C., and **Petrovich, G.D.** Medial prefrontal cortex neuronal ensemble activated during cue-food learning is necessary for cue-induced consumption. *Society for the Study of Ingestive Behavior Meeting.*
- *Anderson, L.C. and **Petrovich, G.D.** DREADD manipulations of ventromedial prefrontal cortex neurons during renewal of Pavlovian conditioned responding to food cues in male and female rats. *Pavlovian Society Meeting.*
- *Keefer, S.E. and **Petrovich, G.D.** Basolateral amygdala-medial prefrontal cortex circuitry regulates behavioral flexibility during Pavlovian appetitive reversal learning, but not during discriminative conditioning or conditioned taste aversion. *Society for Neuroscience Meeting.*

2016

- *Anderson, L.C. and **Petrovich, G.D.** DREADD activation of medial prefrontal cortex neurons induces renewal of Pavlovian conditioned responding to food cues in female rats. *Pavlovian Society Meeting.* *Student Poster Award for the best poster presented.
- *Anderson, L.C., and **Petrovich, G.D.** DREADD inactivation of medial prefrontal cortex neurons disrupts renewal of Pavlovian conditioned responding to food cues in male rats. *Society for Neuroscience Meeting.*

- *Keefer, S.E. and **Petrovich, G.D.** The effects of chemogenetic inactivation of the medial prefrontal cortex during Pavlovian appetitive conditioning. *Society for Neuroscience Meeting*. *BNORC Travel Award recipient.

2015

- &Cole, S., Mayer, H., and **Petrovich, G.D.** A critical role for the neuropeptide orexin/hypocretin in cue-potentiated feeding. *Eastern Psychological Association Meeting*.
- *Reppucci, C.J., and **Petrovich, G.D.** Differential activation of distinct basolateral amygdalar regions during fear-cue inhibited feeding. *Eastern Psychological Association Meeting*.
- *Reppucci, C.J., and **Petrovich, G.D.** Forebrain Fos induction following fear-cue inhibited feeding in male and female rats. *Eastern Psychological Association Meeting*.
- *Anderson, L.C., and **Petrovich, G.D.** Sex differences in renewal of conditioned responding to food cues: role of estradiol. *Organization for the Study of Sex Differences Annual Meeting*.
*The Florence P. Haseltine Award for the best poster presentation by a new investigator.
- &Cole, S., Mayer, H., and **Petrovich, G.D.** The orexin/hypocretin antagonist SB-334867 impairs cue-induced feeding and increases Fos expression in prefrontal cortex and thalamus. *Society for the Study of Ingestive Behavior Meeting*. *BNORC Travel Award recipient.
- *Keefer, S.E., &Cole, S., and **Petrovich, G.D.** Systemic administration of the orexin/hypocretin antagonist SB-334867 attenuates Pavlovian cue-food conditioning. *Society for the Study of Ingestive Behavior Meeting*.
*New Investigator Travel Award, the Society for the Study of Ingestive Behavior
- *Anderson, L.C., and **Petrovich, G.D.** Differential recruitment of the medial prefrontal cortex and hippocampal formation during renewal of conditioned responses to food cues in male and female rats. *Society for Neuroscience Meeting*.
- &Cole, S., *Keefer, S.E., and **Petrovich, G.D.** Disconnection of the medial prefrontal cortex and lateral hypothalamus system prevents cue-potentiated feeding in sated rats. *Society for Neuroscience Meeting*.
- *Keefer, S.E., &Cole, S., Mayer H.S., and **Petrovich, G.D.** Blockade of orexin/hypocretin receptor 1 signaling attenuates Pavlovian cue-food conditioning and extinction. *Society for Neuroscience Meeting*.

2014

- *Reppucci, C.J., and **Petrovich, G.D.** Distinct amygdalar regions are differentially activated during fear anorexia in male and female rats. *Global Public Health: Policy, Disparity, and Disease, Boston College*.
- *Anderson, L.C., and **Petrovich, G.D.** Male and female rats show differential Fos induction within distinct medial prefrontal areas during renewal of Pavlovian appetitive conditioned responses. *Society for Neuroscience Meeting*.
- *Keefer, S.E., *Reppucci C.J., Mayer H., and **Petrovich, G.D.** Plasticity within the basolateral amygdala pathways to the prelimbic cortex during Pavlovian appetitive conditioning. *Society for Neuroscience Meeting*.
- *Reppucci, C.J. & **Petrovich, G.D.** Suppressed Fos induction within the central nucleus of the amygdala corresponds with inhibited feeding in the presence of a fear-cue in male and female rats. *Society for Neuroscience Meeting*.
- *Anderson, L.C., and **Petrovich, G.D.** Behavioral and brain sex differences in renewal of conditioned responses to a food cue. *Society for the Study of Ingestive Behavior Meeting*.
- *Keefer, S.E., *Reppucci C.J., Mayer H., and **Petrovich, G.D.** Basolateral amygdala-medial prefrontal cortex pathway recruitment during Pavlovian appetitive conditioning. *Society for the Study of Ingestive Behavior Meeting*.

&Cole, S., Mayer, H., and **Petrovich, G.D.** Systemic administration of the orexin/hypocretin antagonist SB 334867 blocks cue-potentiated feeding. *Society for the Study of Ingestive Behavior Meeting*.

*Reppucci, C.J., and **Petrovich, G.D.** Fear-cue inhibited feeding corresponds with suppressed Fos-induction in the central amygdala. *Eastern Psychological Association Meeting*.

2013

*Reppucci, C.J., and **Petrovich, G.D.** Fear-cue inhibited feeding in male and female rats: Fos-induction within the central nucleus of the amygdala. *Society for Neuroscience Meeting*.

*Anderson, L.C., Powell, D.J., and **Petrovich, G.D.** Sex differences in context-dependent renewal of appetitive conditioned responses. *Society for Neuroscience Meeting*.

&Cole, S., Powell, D.J., and **Petrovich, G.D.** Neural substrates of Pavlovian appetitive conditioning: Forebrain circuitry. *Society for Neuroscience Meeting*.

*Keefer, S.E., and **Petrovich, G.D.** Recruitment of basolateral amygdala-medial prefrontal cortex pathways during Pavlovian appetitive conditioning. *Society for Neuroscience Meeting*.

*Anderson, L.C., and **Petrovich, G.D.** Male and female rats differ in context-dependent renewal of appetitive conditioned responses. *Pavlovian Society Meeting*.

*Keefer, S.E., *Reppucci, C.J., and **Petrovich, G.D.** Basolateral amygdala-medial prefrontal cortex pathway recruitment across Pavlovian appetitive conditioning. *Pavlovian Society Meeting*.

2012

&Cole, S., Powell, D.J., and **Petrovich, G.D.** Neural substrates of Pavlovian appetitive conditioning: Amygdala circuitry. *Society for Neuroscience Meeting*.

*Reppucci, C., and **Petrovich, G.D.** Neuroanatomical evidence for a topographically organized forebrain network composed of the amygdala, medial prefrontal cortex, and lateral hypothalamus in rats. *Society for Neuroscience Meeting*.

Powell, D.J., &Cole, S., and **Petrovich, G.D.** Sex differences in contextual processing in counterconditioning in rats. *Society for Neuroscience Meeting*.

&Cole, S., Powell, D.J., Hobin, M.P., Reppucci, C.J., and **Petrovich, G.D.** Expression of Pavlovian appetitive conditioning recruits orexin neurons in the medial region of the lateral hypothalamus in the rat. *Society for the Study of Ingestive Behavior Meeting*.

2011

Petrovich, G.D., and *Reppucci, C. Selective activation of the hypothalamic orexin/hypocretin, but not melanin-concentrating hormone neurons by a learned cue that stimulates feeding in sated rats. *Society for Neuroscience Meeting*.

#Kuthyar, M. *Reppucci, C., and **Petrovich, G.D.** Fear-contextual cues inhibit eating in food-deprived male and female rats. *Society for Neuroscience Meeting*.

*Reppucci, C., and **Petrovich, G.D.** Characterization of the basolateral amygdala pathways to the medial prefrontal cortex and lateral hypothalamus in rats. *Society for Neuroscience Meeting*.

2005-2010

Petrovich, G.D., Ross, C.A., Holland, P.C., and Gallagher, M. (2006) Central but not basolateral amygdala is critical for control of feeding by aversive, conditioned cues. *Society for Neuroscience Meeting*.

Petrovich, G.D., Holland, P.C., and Gallagher, M. (2005) Medial prefrontal cortex is necessary for an appetitive conditioned stimulus to promote eating in sated rats. *Society for Neuroscience Meeting*.

Petrovich, G.D., P.C. Holland, and Gallagher, M. (2005) Amygdalar and prefrontal pathways to

the lateral hypothalamus are activated by a learned cue that stimulates eating in sated rats. *Society for the Study of Ingestive Behavior Meeting*.

Petrovich, G.D., Holland, P.C., and Gallagher, M. (2003) Amygdalo-prefrontal-hypothalamic circuitry is activated by an appetitive conditioned stimulus (CS) that promotes eating in sated rats: A combined double-label fluorescence in situ hybridization (FISH) and retrograde tracing study. *Society for Neuroscience Meeting*.

Petrovich, G.D., Setlow, B., Holland, P.C., and Gallagher, M. (2001) Amygdalo-hypothalamic circuit is necessary for CS potentiation of feeding. *Society for Neuroscience Meeting*.

Dong, H.-W., Petrovich, G.D., and Swanson, L.W. (2001) Topographic projections from the amygdala to the BST. *Society for Neuroscience Meeting*.

1995-2000

Dong, H.-W., Petrovich, G.D., Watts, A.G., and Swanson, L.W. (2000) Organization of the projections from the oval and fusiform nuclei of the BST: A PHAL study in the rat. *Society for Neuroscience Meeting*.

Scicli, A.P., Petrovich, G.D., Swanson, L.W., and Thompson, R.F. (2000) Conditioned fear to context is associated with increased *c-fos* expression in both lateral and right anterior basolateral amygdalar nuclei. *Society for Neuroscience Meeting*.

Dong, H.-W., Petrovich, G.D., and Swanson, L.W. (1999) Organization of the projections from the rhomboid nucleus of the BST: A PHAL study in the rat. *Society for Neuroscience Meeting*.

Scicli, A.P., Petrovich, G.D., and Thompson, R.F. (1999) Conditioned fear to context is associated with an increase in Fos expression in the lateral part of the central amygdalar nucleus. *Society for Neuroscience Meeting*.

Petrovich, G.D., Scicli, A.P., Thompson, R.F., and Swanson, L.W. (1999) Associative conditioning of enkephalin mRNA levels in neurons of the central amygdalar nucleus. *Society for Neuroscience Meeting*.

Petrovich, G.D., Canteras, N.S., and Swanson, L.W. (1997) Organization of amygdalar projections to the hippocampal formation: A PHAL study in the rat. *Society for Neuroscience Meeting*.

Petrovich, G.D., and Swanson, L.W. (1996) Projections from the lateral part of the central nucleus of the amygdala: A PHAL study in the rat. *Society for Neuroscience Meeting*.

Petrovich, G.D., Risold, P.Y., and Swanson, L.W. (1995) Organization of projections from the basomedial nucleus of the amygdala: A PHAL study in the rat. *Society for Neuroscience Meeting*.