GORICA D. PETROVICH

Boston College Psychology and Neuroscience
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EDUCATION

1991-1997 **PhD** in Neurobiology, University of Southern California
Dissertation title: Orgi2 792 reifornia

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

2023 *Temporary Member*, BRLE, CSR, NIH
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.

Postdoctoral 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)

INVITED TALKS

2024 The Obesity Society (TOS) Grand Rounds, Live Webinar (June 12, 2024)

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 Does Five Main Smaller” Lunteren, the Netherlands (June 15-16)

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

Winter Conference on Brain Research, Symposium: “Neural Mechanisms Underlying How Environmental Factors Drive Food Intake”, Big Sky, Montana

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=51
Citations = 7642, h-index: 33, 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

*Greiner EM and **Petrovich GD** (2023) Recruitment of hippocampal and thalamic pathways to the central amygdala in the control of feeding behavior under novelty**.** *Brain Structure and Function* Under Revision.

*Greiner EM, #Witt ME, #Moran SJ, and **Petrovich GD** (2023) Activation patterns in male and female forebrain circuitries during food consumption under novelty**.** *Brain Structure and Function* In Press.

Parsons W, *****Greiner E, Buczek L, #Miggliacio 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, #Miggliacio J & **Petrovich GD**

*Reppucci, C.J., and **Petrovich, G.D.** (2016) 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* 221:2937-2962 [Epub July 14, 2015].

&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.

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**

&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., 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 Mem*ory 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. and Gallagher, M. (2007) Control of food consumption by learned cues: A forebrain-hypothalamic network. *Physiology & Behavior* 91:397-403.

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.

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**

*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.

*abnB2 792 reW*nBT/F4*

*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

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