

Thomas F. Giustino

Texas A&M Institute for Neuroscience

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Education

Texas A&M University, College Station, TX

Doctor of Philosophy, Neuroscience 2013-Present

University of Connecticut, Storrs, CT

Bachelors of Science, Psychology (*cum laude*) 2013
 Bachelors of Science, Marketing (*cum laude*) 2013
 Minor, Neuroscience 2013

Research

Texas A&M University, Laboratory of Dr. Stephen Maren 2013-Present

University of Connecticut, Laboratory of Dr. John Salamone 2011-2013

University of Connecticut, Laboratory of Dr. James Chrobak 2011-2013

Publications

Articles

1. Fitzgerald PJ*, **Giustino TF***, Seemann JR*, and Maren S (2015). Noradrenergic blockade stabilizes prefrontal activity and enables fear extinction under stress. *Proc. Natl. Acad. Sci.*, 201500682. doi:10.1073/pnas.1500682112.

* denotes equal contribution

2. **Giustino TF** and Maren, S (2015). The role of the medial prefrontal cortex in the conditioning and extinction of fear. *Frontiers in Behavioral Neuroscience*, 9, 298. <http://doi.org/10.3389/fnbeh.2015.00298>

3. **Giustino TF**, Fitzgerald PJ, and Maren S. (2016). Revisiting propranolol and PTSD: Memory erasure or extinction enhancement? *Neurobiol. Learn. Mem.* 130, 26–33. doi:10.1016/j.nlm.2016.01.009. *Featured on the cover.*

4. **Giustino TF**, Fitzgerald PJ, and Maren, S. (2016). Fear Expression Suppresses Medial Prefrontal Cortical Firing in Rats. *PLOS ONE* 11, e0165256. doi:10.1371/journal.pone.0165256.

In Preparation or Submitted

1. Marek R*, Jin J*, Goode TD, **Giustino TF**, Wang Q, Acca G, Holehonnur R, Ploski JE, Fitzgerald PJ, Lynch T, Lynch J, Maren S, and Sah P. Hippocampal-prefrontal inhibition mediates fear relapse. *Under Review at Nature.*

2. **Giustino TF**, Seemann JR, Acca GM, Goode TD, Fitzgerald PJ, and Maren S. Beta adrenoceptor blockade in the basolateral amygdala, but not medial prefrontal cortex, rescues the immediate extinction deficit. *In prep*

Presentations

Posters

1. **Giustino TF**, Fitzgerald PJ, and Maren S. Noradrenergic modulation of footshock stress-induced changes in single-unit firing in the medial prefrontal cortex of rats. *Texas A&M Institute for Neuroscience Sixth Annual Symposium*. April 2014
2. **Giustino TF**, Fitzgerald PJ, and Maren S. Noradrenergic blockade stabilizes medial prefrontal single-unit activity after footshock stress and reduces fear expression in rats. *Texas A&M Psychology Second Year Students Poster Session*. October 2014
3. **Giustino TF**, Fitzgerald PJ, and Maren S. Noradrenergic blockade stabilizes medial prefrontal single-unit activity after footshock stress and reduces fear expression in rats. *Society for Neuroscience*. November 2014
4. **Giustino TF**, Fitzgerald PJ, and Maren S. Nonassociative inhibition of conditional fear engages the medial prefrontal cortex in rats. *Texas A&M Institute for Neuroscience Seventh Annual Symposium*. March 2015
5. **Giustino TF**, Fitzgerald PJ, and Maren S. Noradrenergic blockade stabilizes prefrontal activity and enables fear extinction under stress. *Austin Conference on Learning and Memory*. April 2015
6. **Giustino TF**, Fitzgerald PJ, and Maren S. Propranolol modulates medial prefrontal cortical activity and enhances extinction after recent fear. *Society for Neuroscience*. October 2015
7. Fitzgerald PJ, **Giustino TF**, and Maren S. Nonassociative inhibition of conditional fear engages the medial prefrontal cortex in rats. *Society for Neuroscience*. October 2015
8. **Giustino TF**, Fitzgerald PJ, and Maren S. Propranolol modulates medial prefrontal cortical activity and enhances extinction after recent fear. *Texas A&M Institute for Neuroscience Eighth Annual Symposium*. April 2016
9. **Giustino TF**, Seemann JR, Acca GM, Goode TD, Fitzgerald PJ, and Maren S. Beta adrenoceptor blockade in the basolateral amygdala, but not medial prefrontal cortex, rescues the immediate extinction deficit. *Society for Neuroscience*. November 2016
10. Fitzgerald PF, **Giustino TF**, and Maren S. Single neurons in the medial prefrontal cortex of freely moving rats signal fear renewal. *Society for Neuroscience*. November 2016
11. Jin J, Goode TD, **Giustino TF**, Acca GM, Wang Q, Fitzgerald PF, and Maren S. Hippocampal prefrontal projection mediates contextual fear memory retrieval. *Society for Neuroscience*. November 2016

Talks

1. Noradrenergic blockade stabilizes medial prefrontal single-unit activity after footshock stress and reduces fear expression in rats. *Texas A&M Psychology: Behavioral and Cellular Neuroscience Seminar*. April 2014
2. Noradrenergic modulation of stress-induced deficits in fear extinction. *Texas A&M Psychology: Behavioral and Cellular Neuroscience Seminar*. October 2016

Service

Texas A&M Institute for Neuroscience, Annual Symposium Planning Committee 2013-Present

Texas A&M Institute for Neuroscience, Brain Day Planning Committee	2013-Present
Texas A&M Institute for Neuroscience, Chapter of the Society for Neuroscience Poster Session Assembly Assistant	2013
Texas A&M Institute for Neuroscience, Seventh Annual Symposium Poster Judge	2015

Honors/Awards

University of Connecticut College of Liberal Arts and Science Dean's List	2008-2013
University of Connecticut School of Business Dean's List	2008-2013
University of Connecticut Babbidge Scholar	2011
University of Connecticut New England Scholar	2012
Texas A&M Institute for Neuroscience Travel Award	2014-2016
Office of Graduate and Professional Studies Travel Award	2015
First Place Poster at TAMIN 8 th Annual Symposium	2016

Professional Societies

Pavlovian Society	2013-Present
Society for Neuroscience	2013-Present
Texas A&M Society for Neuroscience Local Chapter	2014-Present
International Stress and Behavior Society	2016

In the News

1. Fitzgerald et al. 2015 featured in TAMU News
<http://today.tamu.edu/2015/06/30/researchers-find-potential-new-ptsd-treatment/>
2. Fitzgerald et al. 2015 featured in JAMA
<http://jama.jamanetwork.com/article.aspx?articleid=2422534>
3. Fitzgerald et al. 2015 featured on Futurity
<http://www.futurity.org/blood-pressure-drug-ptsd-fear-957702/>