

Jeffrey C. Erlich

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Education

- New York University PhD**, Center for Neural Science graduated May 2006
To Fear or Not to Fear: The role of the amygdala & prefrontal cortex in the regulation of fear.
Advisor: Joseph E. LeDoux
- McGill University BSc** Ad Hoc Joint Honours Computer Science and Neuroscience 1994-1998

Awards and Honours

- Champalimaud Neuroscience Symposium** Travel Award 2011
- Howard Hughes Medical Institute** Predoctoral Fellowship in the Biological Science 2000-2005
- Society for Neuroscience** FENS Travel Award 2004
- McGill University** Dean's Honour List 1996

Work Experience

- Howard Hughes Medical Institute** Postdoctoral Fellow (Advisor: C.D. Brody)
& **Princeton University** Jan 2007-present
- Prologue** Consultant Fall 2005
Performed due diligence for a neuroscience technology venture. Lead: Nimrod Goor.
- New York University** Teaching Assistant Spring 2000 and Fall 2001
TA for Cellular and Molecular Neuroscience:Lab, Taught by Profs. Aoki and Reyes.
- Nevo Technologies** Computer Systems Analyst 1998-1999
Develop education registration system for Harvard University. Designed Electronic Sectioning system (<http://www.registrar.fas.harvard.edu/section>) including web interface, servlets, database and Java server objects. Lead: Jonathan Clay
- McGill University** Research Staff, Department of Psychology Summer 1996
Role of hippocampus in spatial information processing. Advisor : Dr. Matthew Shapiro.
- Clarke Institute of Psychiatry** Research Staff, Human Brain Lab Spring 1994 and Summer 1995
Phospholipid metabolism in human brain pathology. Advisors : Drs. Steven Kish & Brian Ross

Peer-Reviewed Publications

Jeffrey C Erlich, June-Seek Choi, David EA Bush, Carlos D. Brody, Joseph E LeDoux. **Distinct activity in the lateral amygdala and prefrontal cortex during moment-to-moment changes in fear expression.** (In Prep)

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Jeffrey C Erlich, David EA Bush, Joseph E LeDoux. **The role of the lateral amygdala in the retrieval and maintenance of fear expression.** (In Prep)

Jeffrey C Erlich, Max Bialek, Carlos D Brody. (2011) **A cortical substrate for memory-guided orienting in the rat.** [Neuron](#), Volume 72, Issue 2, 330-343

Shraddha S Pai, Jeffrey C Erlich, Charles Kopec, Carlos D Brody. (2011) **Minimal impairment in a rat model of duration discrimination following excitotoxic lesions of primary auditory and prefrontal cortices.** [Front Syst Neurosci](#). 5:74.

Brian M. Ross, Anna Moszczynska, Jeffrey Erlich, and Stephen J. Kish. (1998) **Low activity of key phospholipid catabolic and anabolic enzymes in human substantia nigra: possible implications for Parkinson's disease.** *Neuroscience*, Vol. 83, No. 3, pp. 791-798.

Brian M. Ross, Anna Moszczynska, Jeffrey Erlich, and Stephen J. Kish. (1998) **Phospholipid Metabolising Enzymes in Alzheimer's Disease: Increased Lysophospholipid Acyltransferase Activity and Decreased Phospholipase A2 Activity.** *Journal of Neurochemistry*, Vol. 70, pp. 786-793.

Brian M. Ross, Craig Hudson, Jeffrey Erlich, Jerry J. Warsh, Stephen J. Kish. (1997) **Increased Phospholipid Breakdown in Schizophrenia: Evidence for the Involvement of a Calcium-Independent Phospholipase A2.** *Arch Gen Psychiatry*. 54:487-494.

Selected Conference Abstracts

Jeffrey C Erlich, Max Bialek, Carlos D Brody. **Neural activity in the rat frontal orienting field during memory-guided orienting tasks.** Society for Neuroscience, Abstracts. November, 2009.

Jeffrey C Erlich, G. Sebastien Awwad, Carlos D. Brody. **The role of frontal and prefrontal cortices in a context-dependant PRO/ANTI orienting task.** COSYNE, February, 2008.

Jeffrey C Erlich, Carlos D. Brody, Joseph E LeDoux. **Distinct contributions of the amygdala and prefrontal cortex to the regulation of fear.** COSYNE, February, 2007.

Jeffrey C Erlich, David EA Bush, Joseph E LeDoux. **Bilateral inactivation of the lateral amygdala attenuates lick suppression in a partial reinforcement fear conditioning paradigm.** Society for Neuroscience, Abstracts. November, 2005.

Invited Talks

Sloan-Swartz Meeting. Yale University. June 2010

LeDoux 20th Anniversary Symposium. New York University. Dec 2009

Gatsby Computation Neuroscience Unit. University College London. June 2006