

James B. Ackman

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Education and Research

Postdoctoral Fellow, Yale University School of Medicine, New Haven, CT, May, 2008 – present

Postdoctoral Fellow, Mediterranean Institute of Neurobiology, Marseille, France, Sept, 2006 – Apr, 2008

Ph.D. Physiology and Neurobiology, University of Connecticut, Storrs, CT, June, 2006

Advisor: Dr. Joseph J. LoTurco

B.S. Physiology and Neurobiology, University of Connecticut, Storrs, CT, December, 1999

Minor in Molecular and Cell Biology

Honors and Fellowships

INSERM Postdoctoral Fellowship for Foreign Researchers, Oct 2006 – Sept 2007

Doctoral Dissertation Fellowship, University of Connecticut, 2006

Neuroscience Fellow, University of Connecticut, 2004-2005

New England Scholar, 1999

Teaching experience

2002-2006 Confocal microscope facility in Department of Physiology and Neurobiology, University of Connecticut. Trained users in principles and practice of using laser-scanning confocal microscopy.

Summer 2003 UConn Mentor Connection, “Brain Power”. Mentorship of high school students in neuroscience research.

Spring 2002 Teaching Assistant, Biology of the Brain, PNB 251, University of Connecticut

Fall 2000, Teaching Assistant, Investigations in Neurobiology Laboratory, PNB 263W,
Fall 2001 University of Connecticut

Spring 2000 Teaching Assistant, Human Anatomy and Physiology Laboratory, PNB 265,
University of Connecticut

Technical experience

Microscopy Confocal microscopy and two-photon microscopy. Managed Leica TCS-SP2 confocal microscope facility in Dept of Physiology and Neurobiology. Trained users and performed hardware and software repairs. Experienced with PerkinElmer Ultraview/Yokogawa spinning-disk confocal and LaVision Biotec two-photon microscope systems. Produced cover image for *Nature Neuroscience* Volume 6 No 12

Physiology Fast two-photon calcium imaging, whole cell patch clamp, field recordings

Anatomy Intracardial perfusions, vibratome and cryostat sectioning, immunocytochemistry and immunohistochemistry

Surgery Stereotaxic surgery in neonatal and adult rodents, retrovirus injections, neural cell transplantation, osmotic mini-pump implantation

Culture Mammalian cell culture, neurosphere/neural stem cell assay, primary cell dissociation and culture (neuronal and mixed glial), retrovirus synthesis

Molecular Biology PCR, gene cloning, plasmid and genomic DNA prep, transfection, genotyping, Western blot, lentiviral-shRNA vector prep

Programming R, MATLAB, Python, Unix shell scripting (bash, grep, sed, awk), html, Applescript

Publications

Ackman JB, Aniksztein L, Crépel V, Becq H, Pellegrino C, Cardoso C, Ben-Ari Y, Represa A. Abnormal Network Activity in a Targeted Genetic Model of Human Double Cortex. *J Neurosci*. 2009 Jan 14;29(2):313-27.

Allène C, Cattani A, **Ackman JB**, Bonifazi P, Aniksztejn L, Ben-Ari Y, Cossart R. Sequential generation of two distinct synapse-driven network patterns in developing neocortex. *J Neurosci*. 2008 Nov 26;28(48):12851-63.

Pignatelli A, **Ackman JB**, Vigetti D, Beltrami AP, Zucchini S, Belluzzi O. A potential reservoir of immature dopaminergic replacement neurons in the adult mammalian olfactory bulb. *Pflugers Archiv*. In press.

Bai J, Ramos RL, Paramasivam M, Siddiqi F, **Ackman JB**, LoTurco JJ. The role of DCX and LIS1 in migration through the lateral cortical stream of developing forebrain. *Dev Neurosci*. 2008;30:144-56.

Ackman JB, Ramos RL, Sarkisian MR, LoTurco JJ. Citron kinase is required for postnatal neurogenesis in the hippocampus. *Dev Neurosci*. 2007;29(1-2):113-23.

Ackman JB, Siddiqi F, Walikonis RW, LoTurco JJ. Fusion of microglia with pyramidal neurons after retroviral infection. *J Neurosci*. 2006 Nov 1;26(44):11413-22. *'Recommended' on Faculty of 1000*

Ackman JB, LoTurco JJ. The potential of endogenous neuronal replacement in developing cerebral cortex following hypoxic injury. *Exp Neurol*. 2006 May;199(1):5-9.

Pignatelli A, Benedusi M, **Ackman J**, Loturco JJ, Belluzzi O. Functional Properties of Adult-born Juxtglomerular Cells in the Mammalian Olfactory Bulb. *Chem Senses*. 2005 Jan;30 Suppl 1:i119-i120.

Bai J, Ramos RL, **Ackman JB**, Thomas AM, Lee RV, LoTurco JJ. RNAi reveals doublecortin is required for radial migration in rat neocortex. *Nat Neurosci*. 2003 Dec; 6(12):1277-83. *'Recommended' on Faculty of 1000*

Belluzzi O, Benedusi M, **Ackman J**, LoTurco JJ. Electrophysiological differentiation of new neurons in the olfactory bulb. *J Neurosci*. 2003 Nov 12; 23(32):10411-8.

Abstracts

Allène C, **Ackman JB**, Bonifazi P, Cattani A, Aniksztejn L, Ben-Ari Y, Cossart R. Sequential generation of two distinct synapse-driven network patterns in developing neocortex. *Soc Neurosci Abstr*, 2008

Ackman JB, Becq H, Pelligrino C, Cardoso C, Ben-Ari Y, Represa A. Development of spontaneous activity patterns in dysplastic cortical networks. *Soc Neurosci Abstr*, 2007

Ackman JB, Becq H, Pelligrino C, Cardoso C, Ben-Ari Y, Represa A. Development of spontaneous activity patterns in dysplastic cortical networks. *Gordon Research Conference, 'Neural Circuits and Plasticity'*, 2007

Siddiqi F, Bai J, Ramos RL, **Ackman JB**, LoTurco JJ. Doublecortin overexpression induces neuronal differentiation at the expense of astrocytes. *Soc Neurosci Abstr*, 2006

Ackman JB, Siddiqi F, Zwang ML, Walikonis RW, LoTurco JJ. A source of mistaken neurogenesis: microglial-neuronal fusion in postnatal cerebral cortex. *Soc Neurosci Abstr*, 2005

Ackman JB, LoTurco JJ. Retroviral evidence for generation of neurons in postnatal neocortex. *Soc Neurosci Abstr*, 2004

Pathak H, **Ackman J**, LoTurco J, Coulter DA. Abnormal Inhibitory Innervation of Adult Born Neurons in the Dentate Gyrus Following Status Epilepticus. *Soc Neurosci Abstr*, 2004

Belluzzi O, Benedusi M, **Ackman J**, LoTurco JJ. Functional aspects of neurogenesis in the adult olfactory bulb. *ACchemS Abstr*, 2003

Ackman JB, LoTurco JJ. Postnatal generation of neocortical pyramidal neurons in the *flathead* mutant rat. *Soc Neurosci Abstr*, 2003

Bai J, Ramos RL, **Ackman JB**, Thomas AM, LoTurco JJ. Doublecortin is required for radial migration in neocortex. *Soc Neurosci Abstr*, 2003

Ramos R, **Ackman JB**, LoTurco JJ, Chrobak JJ. Physiology and morphology of nucleus renunions neurons *in vitro*: Implications for the hippocampal memory system. *Soc Neurosci Abstr*, 2003

Pathak H, Kelly ME, **Ackman J**, LoTurco J, Lowenstein DH, Coulter DA. Synaptic integration of newborn neurons in adult dentate gyrus following status epilepticus. *Soc Neurosci Abstr*, 2003

Ackman JB, Benedusi M, Belluzzi O, LoTurco JJ. Fate and function of newly generated interneurons in the adult rodent olfactory bulb. *Soc Neurosci Abstr*, 2002

Kelly ME, Pathak H, **Ackman J**, LoTurco J, Lowenstein DH, Coulter DA. Morphological characterization of newborn dentate granule cells in epileptic and control rats using a retroviral vector expressing green fluorescent protein. *American Epilepsy Society Abstr*, 2002

Ackman JB, LoTurco JJ. Barrel formation and deformation in the neocortex of the *flathead* mutant. *Soc Neurosci Abstr*, 2000

Professional affiliations

Society for Neuroscience

American Association for the Advancement of Science