

**BIOGRAPHICAL SKETCH**

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NAME Randy L. Gollub, M.D., Ph.D.	POSITION TITLE Associate Professor, Harvard Medical School, Clinical Associate, MGH		
eRA COMMONS USER NAME RLGOLLUB			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Northwestern University, Evanston, IL	BA	1980	Neuroscience
Duke University, Durham, NC	PhD	1986	Pharmacology
Duke University, Durham, NC	MD	1987	Medicine

**A. Positions and Honors**Yale University, Department of Psychiatry, New Haven, CT

1987-1991 Psychiatric Residency  
1991-1993 Postdoctoral Fellow in Neurophysiology

Harvard Medical School, Department of Psychiatry, Boston, MA

1993- 1998 Instructor  
1999- 2008 Assistant Professor  
2008- present Associate Professor

Massachusetts General Hospital

1997-present General Advisory Committee, Clinical Research Center  
2002-2008 Associate Director, Biomedical Imaging Core, Mallinckrodt GCRC  
2008-present Director, Biomedical Imaging, Clinical Research Center  
2008-present Neuroscientist, Department of Radiology

Massachusetts General Hospital, Department of Psychiatry, Boston, MA

1993-present Clinical Assistant  
1993-present Attending Psychiatrist, Acute Psychiatry Service, Emergency Department  
1999-2007 Assistant Director Psychiatric Neuroimaging Research Program  
2007-present Associate Director Psychiatric Neuroimaging Research Program

Spaulding Rehabilitation Hospital, Department of Psychiatry, Boston,

2001-2002 Consulting Psychiatrist, Chronic Pain Unit

Health Science Technology Program, MIT and Harvard Medical School, Boston, MA

2001-present Affiliated Faculty Member of the Harvard-MIT Division of Health Sciences and Technology  
2001-present Course Director, HST-583 fMRI Data Acquisition and Analysis  
2002-present Member, Graduate Education Committee  
2002-present Chair, Biomedical Imaging Education Committee  
2003-present Associate Training Director, MEMP Neuroimaging Training Program  
2005-present Member, Admissions Committee

**Other Experience and Professional Memberships**

1980-1987 Medical Scientist Training Program (MSTP), Duke University  
1990-1993 Medical License State of Connecticut  
1993-present Medical License Commonwealth of Massachusetts  
1992 American Board of Neurology and Psychiatry, diplomate

**Honors**

1980 Phi Beta Kappa

**B. Selected peer-reviewed publications (in chronological order)**

Mair RG, Gellman RL and Gesteland RC: Postnatal proliferation and maturation of olfactory bulb

Principal Investigator/Program Director (Last, First, Middle): Gollub, Randy

neurons in the rat. *Neuroscience* 7:3105-3116, 1982.

Gellman RL, Kallianos JA and McNamara JO: Alpha<sub>2</sub> receptors mediate an endogenous noradrenergic suppression of kindling development. *Journal of Pharmacology and Experimental Therapeutics* 241: 891-898, 1987.

Gellman RL & Aghajanian, GK: Pyramidal cells in piriform cortex receive a convergence of inputs from monoamine activated interneurons. *Brain Research*, 600: 63-73, 1993.

Gellman RL & Aghajanian, GK: 5-HT<sub>2</sub> receptor-mediated excitation of interneurons: antagonism by atypical antipsychotic drugs. *Neuroscience*, 58: 515-525, 1994.

Breiter H, Gollub RL, Weisskoff RM, Kennedy D, Makris N, Berke J, Goodman J, Kantor H, Gastfriend D, Mathew T, Riorden J, Rosen B, Hyman S: Acute effects of cocaine on human brain activity. *Neuron*, 19: 591-611, 1997.

Gollub RL, Breiter H, Kantor H, Kennedy D, Gastfriend D, Mathew T, Makris N, Guimaraes A, Riorden J, Campbell T, Foley M, Hyman S, Rosen B, Weisskoff RM: Cocaine decreases cortical cerebral blood flow, but does not obscure regional activation in functional magnetic resonance imaging in human subjects. *Journal of Cerebral Blood Flow and Metabolism*, 18: 724-734, 1998.

Hui KKS, Liu J, Makris J, Gollub RL, Chen AJW, Moore CI, Kennedy DN, Rosen BR, Kwong KK: Acupuncture modulates the limbic system and subcortical gray structures of the human brain--evidence from fMRI studies in normal subjects. *Human Brain Mapping*, 9: 13-25, 2000.

Manoach DS, Gollub RL, Benson EB, Searl MM, Goff DC, Halpern E, Saper CB, Rauch SL: Schizophrenia subjects show aberrant fMRI activation of dorsolateral prefrontal cortex and basal ganglia during working memory performance. *Biological Psychiatry*, 48(2): 99-109, 2000.

Manoach DS, Halpern EF, Kramer TS, Chang Y, Goff DC, Rauch SL, Kennedy DN, Gollub RL Test retest reliability of a functional MRI working memory paradigm in normal and schizophrenic subjects. *Am J Psychiatry*, 158:955-958, 2001.

Kong J, Fufa DT, Gerber A, Rosman IS, Vangel M, Gracely RH, Gollub RL, Psychophysical outcomes from a randomized double blind study of acupuncture analgesia. *Journal of Pain*, 6(5): 55-64, 2005.

Kong J, White N, Kwong K, Vangel M, Rosman IS, Gracely RH, Gollub RL: Using fMRI to dissociate sensory encoding from cognitive evaluation of heat pain intensity, *Human Brain Mapping*, 27(9): 715-721, 2006.

Kong J, Gollub RL, Rosman IS, Webb JM, Vangel M, Kirsch I, Kaptchuk TJ: Brain activity associated with expectancy-enhanced placebo analgesia as measured by fMRI, *Journal of Neuroscience*, 26:381-388, 2006.

Kong J, Gollub RL, Webb JM, Kong J-T, Vangel MG, Kwong K: Test-retest study of fMRI signal change evoked by electro-acupuncture stimulation, *Neuroimage*, 34: 1171-1181, 2007.

Kong J, Kaptchuk TJ, Polich GR, Kirsch I, Gollub RL: Placebo analgesia: findings from brain imaging studies and emerging hypotheses, *Reviews in the Neurosciences*, 18(3-4):173-190, 2007.

Fennema-Notestine C, Gamst AC, Quinn BT, Pacheco J, Jernigan TL, Thal L, Buckner R, Killiany R, Blacker D, Dale AM, Fischl B, Dickerson B, Gollub RL: Feasibility of multi-site clinical structural neuroimaging studies of aging using legacy data, *Neuroinformatics*, 5: 235-245, 2007.

Roffman JL, Gollub RL, Calhoun VD, Wassink TH, Weiss AP, Ho BC, White T, Fries J, Andreasen NC, Goff DC, Manoach DS: MTHFR 677C→T genotype disrupts prefrontal and dopaminergic function in schizophrenia, *Proceedings of the National Academy of Science U S A*. 105 (45):17573-8, 2008. PMID: 18988738.

## **C. Research Support**

### **Ongoing**

U24 RR021382 (P.I. Rosen) NIH/NCRR 09/30/04-05/31/09  
Morphometry BIRN: MGH Site Role: Co-Principal Investigator

UL1 RR025758-01 (P.I. Nadler) NIH/NCRR 05/19/08-04/30/13  
Harvard Clinical & Translational Science Center Role: Associate Director of Translational Imaging Consortium

Principal Investigator/Program Director (Last, First, Middle): Gollub, Randy

U54 EB 005149 (P.I. Kikinis) NIH/NIGMS 09/17/04 -- 07/31/09  
National Alliance for Medical Imaging Computing (NAMIC) Role: P.I. Training Core

U24RR021992 (Rosen) 2/8/06-11/30/11  
BIRN Functional Imaging Project: MGH Site (Subcontract)  
Role: Investigator