

Curriculum Vitae

Paul Geha, MD

Address

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EDUCATION

- M.D.** American University of Beirut,
Lebanon, June 2003
- B.S.** American University of Beirut,
Lebanon, June 1999
Major: Biology
Minor: Philosophy

POSITIONS AND TRAINING

- Assistant Professor- Department of Psychiatry, Yale University School of Medicine, New Haven Connecticut-January 2015-Present
- Instructor- Department of Psychiatry, Yale University School of Medicine, New Haven Connecticut June 2014-2015
- Fellowship - Department of Psychiatry, Yale University School of Medicine, New Haven Connecticut June 2012-2014
- Residency – Department of Psychiatry, Yale University School of Medicine, New Haven Connecticut June 2008 - 2012
- Fellowship – Pain and Qualia Lab, Department of Physiology, Feinberg School of Medicine, Northwestern University, Chicago, Illinois October 2003 – June 2008

HONORS

- 2007 Key note lecturer for the 21st National Physical Medicine and Rehabilitation Congress, Turkey.
- 2011 University of Vermont, Department of Psychiatry, Grand Round: "Disruption of Brain Structure and Function in Chronic Pain".

2013 Seymour L. Lustman Award for Psychiatric Research

PUBLICATIONS-PEER REVIEWED

MN Baliki, DR Chialvo, **PY Geha**, RM Levy, RN Harden, TB Parrish, AV Apkarian. Chronic pain and the emotional brain: Specific brain activity associated with spontaneous fluctuations of intensity of chronic back pain. *J Neurosci*. 2006 Nov;26 (47) 12165-73.

PY Geha, MN Baliki, DR Chialvo, RN Harden, J.A Paice, AV Apkarian. Brain activity for spontaneous pain of postherpetic neuralgia and its modulation by lidocaine patch therapy. *Pain* 2007 Mar;128 (1-2); 88:100.

MN Baliki, **PY Geha**, AV Apkarian, DR Chialvo. Impaired brain deactivation in chronic pain. *J Neurosci*. 2008 Feb 6;28(6):1398-403.

PY Geha, MN Baliki, X Wang, RN Harden, JA Paice, AV Apkarian. Brain dynamics for perception of tactile allodynia (touch induced pain) in post-herpetic neuralgia. *Pain*. 2008 Sep 15;138(3):641-56

MN Baliki, **PY Geha**, R Jabakhanji , NR Harden, TJ Schnitzer, AV Apkarian. A preliminary fMRI study of analgesic treatment in chronic back pain and knee osteoarthritis. *Mol Pain*. 2008 Oct 25;4:47.

PY Geha, MN Baliki, RN Harden, W Bauer, TB Parrish , AV Apkarian. The brain in chronic CRPS pain: Abnormal gray-white matter interactions in emotional and autonomic regions. *Neuron*. 2008 Nov; 26;60(4):570-81.

MN Baliki, **PY Geha**, AV Apkarian. Parsing pain perception between nociceptive representation and magnitude estimation. *J Neurophysiol*. 2009 Feb;101(2):875-87.

MN Baliki, **PY Geha**, HL Fields , AV Apkarian Predicting value of pain analgesia: nucleus accumbens response to noxious stimuli changes in the presence of chronic pain; *Neuron*. 2010 Apr; 15;66(1):149-60.

EL Parks, **PY Geha**, MN Baliki, J Katz, TJ Schnitzer, AV Apkarian. Brain activity for chronic knee osteoarthritis: dissociating evoked pain from spontaneous pain; *Eur J Pain*. 2011 Sep; 15(8):843.e1-14

IE DeAraujo, **PY Geha**, DM Small, Orosensory and homeostatic function of the insular cortex; *Chemo Percept*. 2012 Jan; 5:64-79

S Nolan-Poupart, MG Veldhuizen, **PY Geha**, DM Small. Midbrain response to milkshake correlates with ad libitum milkshake intake in the absence of hunger. *Appetite*. 2013 Jan;60(1):168-74.

PY Geha, K Aschenbrenner, J Felsted, S O'Malley, DM Small. Smokers have differential brain response to food in regions that predict weight gain in non-smokers; *Am J Clin Nutr.* 2013 Jan; 97(1):15-22.

Reductions in brain 5-HT_{1B} receptor availability in primarily cocaine-dependent humans. D Matuskey, Z Bhagwagar, B Planeta, B Pittman, JD Gallezot, J Chen, J Wanyiri, S Najafzadeh, J Ropchan, **P Geha**, Y Huang, MN Potenza, A Neumeister, RE Carson, RT Malison. *Biol Psychiatry.* 2014 Nov 15;76(10):816-22

Decreased food pleasure and disrupted satiety signals in chronic low back pain.
P Geha, I Dearaujo, B Green, DM Small. *Pain.* 2014 Apr;155(4):712-22. doi: 10.1016/j.pain

Reductions in brain 5-HT_{1B} receptor availability in primarily cocaine-dependent humans. D Matuskey, Z Bhagwagar, B Planeta, B Pittman, JD Gallezot, J Chen, J Wanyiri, S Najafzadeh, J Ropchan, **P Geha**, Y Huang, MN Potenza, A Neumeister, RE Carson, RT Malison. *Biol Psychiatry.* 2014 Nov 15; 76(10):816-22.

P Geha, Y Yang, M Estacion, BRSchulman, Tokuno H, Apkarian AV, Dib-Hajj SD, Waxman SG. Pharmacotherapy for pain in a family with inherited erythromelalgia guided by genomic analysis and functional profiling. *JAMA Neurol.* 2016 Apr 18.

P Geha, Waxman SG. Pain Perception: Multiple Matrices or One? *JAMA Neurol.* 2016 Apr 25.

INVITED REVIEWS

PY Geha, AV Apkarian. Brain imaging findings in neuropathic pain. *Curr Pain Headache Rep.* 2005 Jun; 9(3): 184-8.

MN Baliki, **PY Geha**, AV Apkarian. Spontaneous pain and brain activity in neuropathic pain: functional MRI and pharmacologic functional MRI. *Curr Pain Headache Rep.* 2007 Jun; 11(3): 171-7.

AV Apkarian, MN Baliki, **PY Geha**. Towards a theory of chronic pain. *Prog Neurobiol.* 2009 Feb;87(2):81-97.

IE deAraujo, **PY Geha**, DM Small. Orosensory and homeostatic functions of the insular taste cortex. *Chem Percept.* 2012 Jan; 5:64-79

PUBLICATIONS – NON PEER REVIEWED

PY Geha, AV Apkarian. Pain and the neuroanatomical effects: evidence for cortical reorganization. *Psychiatric Times*, 2006, Feb; 23.2: 22.

INVITED SPEAKER

- 2012** " Disruption of Brain Structure and Function in Chronic Pain", The Neuroscience and Regeneration Research Center, Yale New Haven, USA
- 2012** "Global and Local Functional Connectivity Changes with Increasing Body Weight", Yale Magnetic Resonance Research Center Speaker Series, Yale University, New Haven, USA
- 2013** "Global and Local Functional Connectivity Changes with Increasing Body Weight", IBM Thomas J. Watson Research Center, Yorktown Heights, NY USA

RESEARCH SUPPORT

ONGOING RESEARCH

1K08DA037525-01 P. Geha (PI)
05/15/2014-04/30/2019 NIDA

Neural Mechanisms of Obesity in Chronic Low Back Pain

Using neuroimaging and psychophysics the proposed studies will test the hypothesis that brain alterations associated with chronic low back pain underlie an increased propensity to overeat and become obese.

Role: PI

PAST RESEARCH

5 T32 MH19961-14 R. Malison(PI)
7/1/07-6/30/12 NIMH

Clinical Neuroscience Research Training in Psychiatry

This training grant provides specialized research training fellowship experiences for psychiatrist with an interest in the clinical-translational neurobiology of mental illness and addictive disorders.

Role: Trainee

TEACHING

Psychosomatic Medicine

"Serious Mental Illness and Medical Comorbidities", Yearly Lecture for psychosomatic psychiatry fellows

Brain Imaging and Neuroscience

Xin Wang, MD - University of Toledo, Toledo, Ohio 2006-2007

Elle Parks, BA - Northwestern University, Chicago, Illinois 2008

Francois Chouinard, BA – Yale University, New Haven, Connecticut 2009-2011

Sarah Nolanpoupart, BA – Yale University, New Haven, Connecticut 2010-2011

Xue Sun, graduate student - Yale University, New Haven, Connecticut 2010-present

Xiao Deng, Post-Doctoral Fellow-Yale University, New Haven, Connecticut, 2015-present

Isabelle Rossi DeLeon, Undergraduate Student, Yale University, New Haven, Connecticut, 2015-present

Victoria Jane En Long, Undergraduate Student, Yale University, New Haven, Connecticut, 2015-present

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Society for Neuroscience 2004 - present

Human Brain Mapping 2005- 2008, 2013-present

VOLUNTEERING ACTIVITIES

Lebanese Medical Student International Committee, Standing Committee on Refugees and Peace 1999- 2003

Outreach Clinic, providing health care for underserved areas in Beirut, Lebanon, organizing member and volunteer 2001- 2003

LANGUAGES

English, French, Arabic

LICENSE

Connecticut Medical Licence 049020

REFERENCES

Dana M. Small, PhD

Associate Fellow

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AVania Apkarian, PhD

Professor of Physiology

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Todd R. Constable, PhD

Professor of Radiology, Neurosurgery, and Biomedical Engineering

Yale School of Medicine

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