Arash Hadipour-Niktarash, MD

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Current Affiliation: Assistant Professor of Neurology, Department of Neurology, University of Colorado Health Sciences Center, Denver Health and Hospitals.

Education and Research:

7/2013-6/2015	Epilepsy fellow Department of neurology, MGH epilepsy service Massachusetts General Hospital, Harvard Medical School
7/2010-6/2013	PGY II- PGY IV Neurology resident Chief resident Neurology residency program Department of neurology, University of Chicago Medical Center.
6/2009-6/2010	PGY-I Resident: (internship) Yale-Griffin Residency Program
6/2007-5/2009	Post-Doctoral Research Fellow Emory University
8/2005-5/2007	Post-Doctoral Research Fellow Johns Hopkins University
5/2003-3/2005	Post-Doctoral Research Fellow Institute for Studies in Theoretical Physics and Mathematics (IPM), Tehran, Iran.
2/1996-4/2003	Doctorate in Medicine (MD), Iran University of Medical Sciences (IUMS).

Current project (Dr. Kevin Staley's lab, MGH): Evolution of network synchronization during inter-ictal period. In preparation

Publications:

- 1) Ghasemi, M, Hadipour-Niktarash, A. (2015). Pathologic role of neuronal nicotinic acetylcholine receptors in epileptic disorders: implication for pharmacological interventions. *Rev Neurosci.* 2015 Jan 7. PMID:25565544
- 2) Hadipour-Niktarash, A., Rommelfanger, K.S., Smith, Y. & Wichmann, T. (2012). Extrastriatal D2-like receptors modulate basal ganglia pathways in normal and parkinsonian monkeys. *Journal of Neurophysiology*, 107(5), 1500-1512. PMID:3311684
- **3)** Hadipour-Niktarash, A., Lee, C.K., Desmond, J.E. & Shadmehr R. (2007). Impairment of retention but not acquisition of a visuomotor skill through time-dependent disruption of primary motor cortex. *Journal of Neuroscience*, 27(49), 13413-13419. PMID: 18057199
- 4) Hadipour-Niktarash, A. (2006). A Computational Model of How an Interaction between the Thalamocortical and Thalamic Reticular Neurons Transforms the Low-Frequency Oscillations of the Globus Pallidus. *Journal of Computational Neuroscience*, 20(3), 299-320. PMID: 16683209
- 5) Hadipour Niktarash, A. & Shahidi, G.A. (2004). Effects of the Activity of the Internal Globus Pallidus-Pedunculopontine Loop on the Transmission of the Subthalamic Nucleus External Globus Pallidus-Pacemaker Oscillatory Activities to the Cortex. *Journal of Computational Neuroscience*, 16 (2), 113-127. PMID: 14758061
- 6) Hadipour Niktarash, A. (2003). Transmission of the subthalamic nucleus oscillatory activity to the cortex: a computational approach. *Journal of Computational Neuroscience*, 15 (2), 223-232. PMID: 14512748
- 7) Hadipour Niktarash, A. (2003). Discussion on the reverberatory model of short-term memory: A computational approach. *Brain and Cognition*, 53 (1), 1-8. PMID: 14572496

Teaching and Administrative Appointments:

6/2012-6/2013:	Chief resident
	Stroke morning report
	General neurology morning report
	Organizing weekly neurology grand round
7/2013-6/2015:	Epilepsy Surgery Conference

Grant Funding:

2012-2015: NIH-R25 physician scientist grant

Ad Hoc Reviewer:

Public Library of Science (*PLoS*) Journal of Neurophysiology Journal of Computational Neuroscience European Journal of Neuroscience Experimental Brain Research Journal of Translational Medicine The Journal of Neuroscience

Research Skill

Neurophysiology and neuropharmacology: Single unit recording (extracellular) /Microinjection in human and non-human primates.

Transcranial magnetic stimulation (TMS) and robot-assisted human motor control. Computational Neuroscience.

Conference, Abstracts and Proceedings:

- 1. NeuroPace RNS educational symposium Austin Texas 2015
- 2. The neurology residency scholar program (NRSP): Intensive epilepsy course and case presentation. Scottsdale Arizona 8-11 Sep 2011.
- 3. 15th *International Congress of Parkinson's Disease and Movement Disorders*, Toronto, ON, Canada, 5-9 June **2011**, "Extrastriatal D2-like receptors modulate basal ganglia pathways in normal and parkinsonian monkeys" Abstr LB4.
- 4. 38th annual meeting of the Society for Neuroscience (SfN), Washington, DC, USA, 15-19 Nov. 2008, "Effects of D2-like Dopamine Receptor Activation on Neuronal Activity in Substantia Nigra Pars Reticulata and Globus Pallidus in Monkeys" Abstr. No. 274.1/II26.
- 37th annual meeting of the *Society for Neuroscience* (SfN), San Diego, California, USA, 3-7 Nov. 2007, "Impairment of retention but not acquisition of a visuomotor skill through time dependent disruption of primary motor cortex" Abstr. No. 618.12/QQ5.

- Sixteenth Annual Computational Neuroscience Meeting: CNS, Toronto, Canada. 7-12 July 2007, "Customization of coherence analysis by relaxing its iso-frequency constraint" Abstr. No. P58.
- 7. *IBAGS* 2004, grieff, Scotland, UK, 5-9 September **2004**, "Dopaminergic Modulation of the External Globus Pallidus Firing Pattern". Abstr. No. 0072.
- 8. 14th Iranian Congress of Physiology and Pharmacology 16-20 May 1999, "The Role of Oxytocin in Regulation of Neuronal Membrane Plasticity, Using Single Unite Recording." Abstr. No. 115.
- 9. 1998 *Forum of European Neuroscience*, Berlin, 27 June-1 July **1998**, "Mathematical Simulation and Neural Network in Process of Color Vision." Abstr. No. 149.11.
- 10.9th *World Congress of Psychophysiology*, Sicily, Italy, 14-19 September **1998**, "Modeling of Reward and Punishment Aspects of Behavior, Using Neural Network" Abstr. No. 276.

PROFESSIONAL AND SCIENTIFIC SOCIETIES

American Epilepsy Society American Clinical Neurophysiology Society American Academy of Neurology Society for Neuroscience