

Neuroscience at Northeastern University *May, 2006*

Northeastern University has one of the largest populations of faculty neuroscientists in the Boston area, with 50 full-time faculty members from 15 departments and centers, distributed across 4 colleges. Below is an alphabetical listing.

- Carmen G. Armengol** (Counseling and Applied Educational Psychology, 373-5917) recovery from traumatic brain injury.
- Joseph Ayers** (Biology and Marine Science Center, 781-581-7370, x309) systems neurophysiology, neuroethology, biomimetic robots, neurorehabilitation.
- Norman R. Boisse** (Pharmaceutical Sciences, 373-4182) psychopharmacology of benzodiazepines.
- Dana H. Brooks** (Electrical and Computer Engineering, 373-3352) signal processing and functional imaging.
- Margaret Christensen** (Nursing, 373-3623) Substance abuse and weight gain during substance abuse treatment.
- Frederick C. Davis** (Biology, 373-4039) vertebrate circadian rhythms.
- Richard C. Deth** (Pharmaceutical Sciences, 373-4064) Catecholamine receptors and psychiatric disease.
- Charles A. DiMarzio** (Electrical and Computer Engineering, 373-2034), optical imaging.
- Mehmet R. Dokmeci** (Electrical and Computer Engineering, 373-2751) MEMS, microscaffolds, microreactors for culturing of neurons.
- Michael Epstein** (Speech Language Pathology Audiology, 373-5424) auditory physiology and psychoacoustics.
- Rhea T. Eskew** (Psychology, 373-3863) visual psychophysics and perception.
- Linda J. Ferrier** (Speech Language Pathology Audiology, 373-2982) child language acquisition.
- Mary Florentine** (Speech Language Pathology Audiology, 373-2497) auditory neuroscience and hearing loss.
- Jonathan E. Freedman** (Pharmaceutical Sciences, 373-4201) dopamine and opioid modulated ion channels, and neural information coding.
- Robert P. Futrelle** (Computer Science, 373-4239) neural networks, visual pattern recognition, natural language understanding.
- S. John Gatley** (Pharmaceutical Sciences, 373-3306) imaging the dopamine and endocannabinoid systems.
- Carol A. Glod** (Nursing, 373-3105) adolescent psychiatric disorders.
- Robert N. Hanson** (Chemistry, 373-3313) medicinal chemistry of dopamine transporter.
- Meredith H. Harris** (Physical Therapy, 373-5980) postural sway and other balance mechanisms; interventions to prevent fall in older adults.
- Maureen Holden** (Physical Therapy, 373-5274) virtual reality in motor control and motor learning.
- Karen J. Hutchinson** (Physical Therapy, 373-5268) exercise for neurologically impaired subjects.
- Denise Jackson** (Psychology, 373-3860) drug effects on brain development.
- Jorge V. José** (Physics, 373-2927), modeling of complex neural circuits.
- Ralph H. Loring** (Pharmaceutical Sciences, 373-3216) neuronal nicotinic receptors.

Alexandros Makriyannis (Chemistry and Pharmaceutical Sciences, 373-4200) G-protein-coupled receptor structure and function, chemistry and chemical biology.

Elias S. Manolakos (Electrical and Computer Engineering, 373-3021) neural networks, pattern recognition, bioinformatics.

Richard L. Marsh (Biology, 373-3495) skeletal muscle physiology.

Emanuel Mason (Counseling and Applied Educational Psychology, 373-5043) developmental models of thinking and reasoning.

Magdalena A. Mateo (Nursing, 373-4600) brain injury.

Jay P. McLaughlin (Psychology, 373-2361) neurobiological mechanisms of behavioral disorders; receptor regulation and signal transduction.

Richard H. Melloni (Psychology, 373-3043) neurobiology of aggression.

Latika Menon (Physics, 373-4530) use of nanowires for stimulating and recording neural activity.

Eric L. Miller (Electrical and Computer Engineering, 373-8386) signal processing and functional imaging.

Joanne L. Miller (Psychology, 373-3766) spoken language processing, lexical access, speech perception.

Franklin Naarendorp (Psychology, 373-3335) retinal basis of visual perception.

Donald M. O'Malley (Biology, 373-2284) zebrafish locomotor control systems, neuroanatomy, neurocomputation.

Therese M. O'Neil-Pirozzi (Speech Language Pathology Audiology, 373-5750) auditory neuroscience, recovery from injury.

Demetrios Papageorgiou (Electrical and Computer Engineering, 373-5410) MEMS sensors and circuits, implantable devices.

Rupal Patel (Speech Language Pathology Audiology, 373-5842) neural bases of speech production, motor speech disorders, human-computer interfaces.

Neal J. Pearlmutter (Psychology, 373-3040) psycholinguistics and neurolinguistics.

Yury Petrov (Psychology, 373-3076) visual psychophysics, multi-electrode encephalography.

Adam J. Reeves (Psychology, 373-4708) visual perception and attention.

Ralf W. Schlosser (Speech Language Pathology Audiology, 373-3785) augmentative and alternative communication.

Robert W. Sikes (Physical Therapy, 373-5195) physiology and anatomy of pain pathways.

Michail Sitkovsky (Pharmaceutical Sciences, 373-5730) cytokines and the molecular mechanisms of inflammation.

Wendy Smith (Biology, 373-2600) role of neuropeptide hormones in insect development.

James R. Stellar (Psychology, 373-5173) psychopharmacology and neuroanatomy of reward, addiction.

Armen B. Stepanyants (Physics, 373-2944) neurogeometry and synaptic connectivity.

Christian J. Teter (Pharmacy Practice, 373-7115) Pharmacotherapy for substance use disorders, pharmacokinetics, medication adherence in psychiatry and addiction.

Barbara L. Waszczak (Pharmaceutical Sciences, 373-3312) neuropharmacology of basal ganglia disorders (Parkinson's disease).