Faculty & Areas of Research

Demetrio Sierra, PhD; Assistant Professor
demetrio.sierra@upr.edu
MSC x1572 / Office A-501A, Lab A-515
The effects of traumatic brain injury on the formation and expression of memories

María A. Sosa, PhD; Professor
maria.sosa@upr.edu
INB x276 / Office 319-320 • MSC x1514 / Office A-561, Lab A-570
Neural basis of interactive behaviors in invertebrate animal model systems; impact of anthropogenic environmental changes on nervous system function of local river fauna.

Natalia Valentín, PhD; Assistant Professor
natalia.valentin3@upr.edu
787-758-2525 x2300
Anatomical variations of vascular system of the limbs and the mediastinum of the thorax

Joint and Adjunct Professors

Christian E. Bravo, PhD; Assistant Professor (Dept. of Psychiatry)
christian.bravorivera@upr.edu
Active avoidance and cognitive neuroscience in rodent model systems.

Bruno Marie, PhD; Associate Professor (Inst. of Neurobiology)
brunomariemail@gmail.com
Molecular mechanisms of neuronal synaptic growth and plasticity in Drosophila melanogaster.

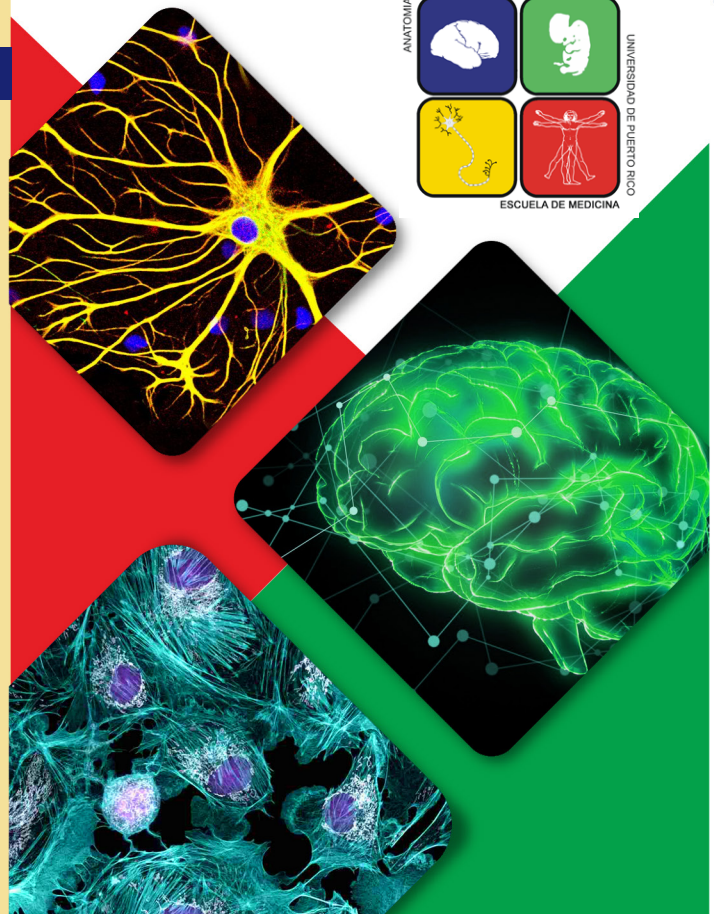
Andrew M. Seeds, PhD; Assistant Professor (Inst. of Neurobiology)
andrew.seeds@upr.edu
Mechanisms underlying how the nervous system produces movement sequences.

Cristina M. Velázquez, PhD; Assistant Professor (Inst. of Neurobiology)
cristina.velazquez1@upr.edu
CNS plasticity in response to substance abuse and use of opioids.

UPR • Medical Sciences Campus
School of Medicine
5th Floor Office A-561
PO Box 365067 San Juan, PR 00936-5067
MSC: (787) 758-2525 Ext. 1500 or 1501
FAX: (787) 767-0788
For more information, contact:
mark.miller@upr.edu
maria.sosa@upr.edu

Inst. of Neurobiology (INB): 787-721-4149

http://www.md.rcm.upr.edu/anatomy



UPR
School of Medicine

DEPARTMENT OF **ANATOMY AND NEUROBIOLOGY**

Purpose of the Graduate Program in Anatomy

The graduate program in Anatomy was created to train students for careers in research and teaching in Anatomy and Neurobiology disciplines. It comprises Master of Sciences (MS) and Doctor of Philosophy (PhD) Degree programs. Through these, students become prepared for a variety of careers in academia, basic science/clinical research, the biomedical/ biotechnology industry, science education and community outreach, government agencies, and various other health-related fields.

Selection and Admission of Graduate Students

Prospective graduate students may obtain an application for admission from the Division of Biomedical Sciences **(www.md.rcm.upr.edu/biomed/).**

Admission requirements are:

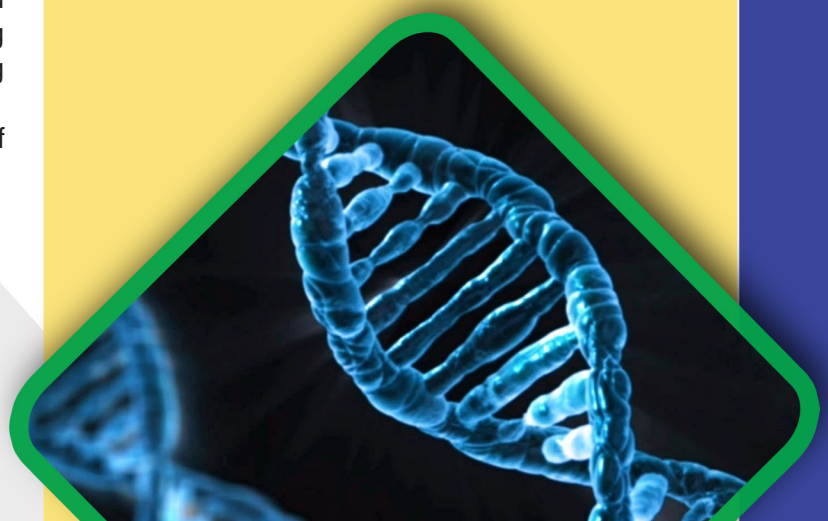
1. A Bachelor's degree or its equivalent (as determined by the Registrar's Office) with a grade point average (GPA) of at least 3.0 overall and 3.0 in the sciences and mathematics. (Minimum required courses include General and Organic Chemistry, General Physics, Mathematics through Calculus, and 12 credits of Biology).
2. A working knowledge of Spanish and English.
3. Submission of the Graduate Record Examination (GRE) scores. The subject test in Science is not required.
4. An essay in English of approximately 1 single-spaced page setting forth the applicant's reasons for being interested in obtaining a graduate degree and following a career in Anatomy/Neurobiology.
5. Copies of official transcripts and three letters of recommendation.
6. An interview with the Department's faculty.
7. Research experience is highly recommended.
8. Filled out application form.

APPLICATION DEADLINE FOR ADMISSION IN AUGUST IS:
DECEMBER 1ST

The anatomy of our graduate program...

	MS	PhD
Year 1	Gross Anatomy Embryology Seminars / Journal Clubs Research Lab Rotations	Gross Anatomy Embryology Histology Neuroscience Seminar / Journal Clubs
Year 2	Practice in Teaching Histology Neuroscience Biostatistics Research Lab Rotations Thesis Proposal	Practice in Teaching Biochemistry Physiology Biostatistics Research Lab Rotations Seminar / Journal Clubs
Year 3	Master's Thesis Research and Defense	Dissertation Proposal Qualifying Exam
Year 4 – 5		Dissertation Research and Defense

www.md.rcm.upr.edu/anatomyneurobiology/



Faculty & Areas of Research

Jennifer L. Barreto, PhD; Professor
jennifer.barreto1@upr.edu
MSC x2300 / Office A-563B, Lab A-555
Behavioral neuroendocrinology and neural basis of drug addiction.

Rosa E. Blanco, PhD; Professor
rosa.blanco@upr.edu
INB 787-724-1962/Office 220, Labs 208-210, 213, 216, 112A
MSC x2269 / Office A-566
Visual system nerve regeneration and neuronal plasticity.

Juan C. Jorge, PhD; Professor
juan.jorge@upr.edu
MSC x1506 / Office / Lab A-521
Sexual dimorphisms; incidence of congenital malformations affecting genitalia and sex organs; public health epidemiological studies regarding pediatric psychiatric treatment and diagnosis and follow up of pediatric patients with congenital malformations.

Robert W. Kensler, PhD; Professor
robert.kensler@upr.edu
MSC x1507 / Office / Lab A-502
Macromolecular structure of muscle thick filaments and associated accessory proteins.

Mark Miller, PhD; Professor
mark.miller@upr.edu
INB x222, Office 214, Lab 112J • MSC x2269 / Office A-566
Rhythmic activities in the nervous system of invertebrates. Neuroanatomy of Biomphalaria alexandrina and its potential role in impeding propagation of schistosomiasis.

Nivia L. Pérez-Acevedo, PhD; Professor
nivia.perez@upr.edu
MSC x1512 / Office /Lab A-556
Role of glutamate's metabotropic receptors in the mechanisms underlying anxiety and the establishment of emotional memory in females.