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 Valentin, 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.
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...

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<td>Year 1</td>
<td>Gross Anatomy Embryology</td>
<td>Gross Anatomy Embryology</td>
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<td>Gross Anatomy Embryology Seminars / Journal Clubs</td>
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<td>Year 2</td>
<td>Practice in Teaching Histology</td>
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<td>Year 4 - 5</td>
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<td>Dissertation Research and Defense</td>
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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.

Yancy Ferrer-Acosta, PhD; Assistant Professor
yancy.ferrer@upr.edu
MSC X-2169, 2562 / Office A-572, Lab A-573/548
Neuroprotection and cancer therapeutics using natural products and targeted nanotechnology.

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 112 J - MSC x2269 / Office A-556
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.

Roberto E. Rodríguez Morales, PhD; Assistant Professor
roberto.rodriguez19@upr.edu
MSC X-1513 Lab/Office A518/517
Evolution and plasticity of social behaviors / Mechanisms underlying sensory system compensation in the blind Mexican cavefish.