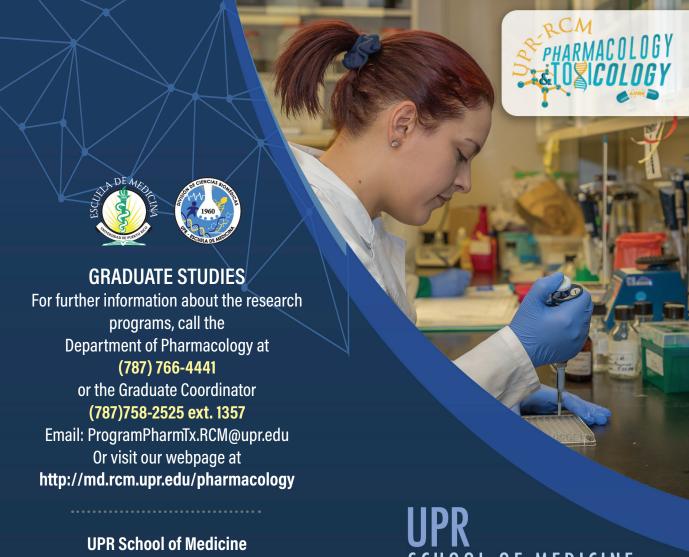
GRADUATE PROGRAM DEPARTMENT OF PHARMACOLOGY

Please send more information about the graduate program in Pharmacology

Name:
Address:
City, State:
Zip code:
Phone:
I am interested in the following area(s) of study:
Undergraduate degree from which university?





Medical Sciences Campus P0 Box 365067

San Juan PR 00936-5067

Tel. & Fax (787) 766-4441 (787) 758-2525 ext. 1300/1301 SCHOOL OF MEDICINE

PHARMACOLOGY TOXICOLOGY







PHARMACOLOGY & TOXICOLOGY

Pharmacology is the science that studies drug actions on living systems. Toxicology is the science that studies the harmful effects of xenobiotics and their detection in biological systems. The discipline of Pharmacology/ Toxicology involves studies to decipher the effects of chemical agents upon cellular and molecular mechanisms including drugs directed for prevention and treatment of major diseases and those associated with environmental toxins that critically influence biological processes. Pharmacologists also study drug design and the use fo drugs to decipher molecular features of cell function.

The Department fo Pharmacology and Toxicology fosters multidisciplinary training leading to the Master of Science and Docotor of Philosophy degrees. The department committed in the training of graduate students to become highly regarded scientists and scholars in the area of pharmacology.

In addition to the facilities in each research laboratory, the general facilities of the Medical Sciences Campus are available. These include: The Animal Laboratory Resources Center, Library, Computer Center, and specialized research facilities, sucha as the Flow Cytometry Laboratory, the Electron Microscopy Unit, the Molecular Biology Facility, the DNA Sequencer Unit, and the proteomics core.

GRADUATE PROGRAM DESCRIPTION

Candidates for the M.S. degree must successfully complete a minimum of 24 course credits and 6 credits of thesis. The required courses include Biochemistry, Physiology, Pharmacology, Biostatistics, and Seminar. The M.S. Degree can be obtained within three years. Ph.D. students are requiered to complete 45 course credits and 15 credits of thesis. Ph.D. students are also required to pass a comprehensive qualifying examination. The Ph.D. degree usually requieres at least five years.

Faculty & Areas of Research

Adriana Báez, Ph.D.

adriana.baez@upr.edu

Molecular genetics, epidemiological and clinical
Characteristics of Head and Neck Cancer

Emma Fernández-Repollet, Ph.D.

e.fernandez@upr.edu

3-D Printing as an Educational Biomedical Tool Biomedical Workforce Development. Health Disparities Research in Hispanics

Susan Corey, Ph.D.

susan.corey@upr.edu Opioid use in Puerto Rico

José G. Ortiz, Ph.D. (**)

jose.ortiz@upr.edu

Neuroactive properties of natural products

Diógenes Herreño Saenz, Ph.D.

diogenes.herreno@upr.edu
Chemical Carcinogenesis, Biomarkers, Toxicology
and Risk Assessment

Sylvette Ayala-Peña, Ph.D. (**)

sylvette.ayala@upr.edu Mitochondrial DNA repair and mitochondrial bioenergetics in aging and Huntington's Disease

Yamil Gerena, Ph.D.

yamil.gerena@upr.edu

Mechanisms of insulin resistance and cognitive
impairment in HIV

Antonio H. Baccin Martins, Ph.D. (**)

antonio.martins@upr.edu
Neuroprotection against stroke and
Organophospate Poisoning

** Accepting students for academic year 2019-2020



- 2. Applicants should have completed a B.S. or B.A. degree with and undergraduate major in Biology, Chemistry of Pharmacy. Applicants with other majors may also be considered.
- 3. Applicants must have a general grade point average of not less than 3.00 on a 4.00 scale.
- 4. Required undergraduate courses include calculus, general chemistry, organic chemistry, general physics and general biology.
- 5. The deadline to apply for admission is December.

Cost of Study

At present, the approximately cost of graduate credits is between \$175 and \$200. Several forms of economic assistance are available, such as university fellowships for research or teaching, and a variety of fellowships from federal and private research agencies.