

*2012 Awards in*

# PHARMACOLOGY

*including Toxicology, Morphology & Clinical Pharmacology*

application deadline: September 1, 2011



*“The aid from my PhRMA Foundation fellowship has allowed me to pursue a variety of scientific opportunities, providing me with the necessary knowledge and experience in pharmacology that I can use in my future endeavors as a scientist.”*

– Christopher Vellano

# Area of Interest

## Pharmacology/Toxicology

Pharmacology/toxicology awards support career-development activities of scientists prepared to engage in research that integrates information on molecular or cellular mechanisms of action with information on the effects of an agent observed in an intact organism, either in experimental animal or clinical studies or both.

The highest priority will be given to applications for research that attempts to integrate information on the mechanism of action of a drug or chemical at the molecular or cellular level with the drug effect observed in a human or laboratory animal. An applicant is expected to describe the significance of a hypothesis being tested in the context of potential influences of biochemical, physiological, behavioral, or social systems.

The intent of these programs is to encourage multidisciplinary training designed to bring the perspective of molecular, cell and systems biology to bear on research in pharmacology and toxicology. The scope of these programs includes basic studies of drug action, detection of cellular responses to drugs at the gene level that create opportunities to optimize individualized drug therapy, and the corresponding evaluation of pharmaceuticals in human and clinical populations. Research projects to extend or develop the proprietary value of specific drugs are not acceptable. This exclusion does not preclude research in which specific drug products are used to test hypotheses that have general applicability.

### *on the cover*

Christopher Vellano  
Emory University  
Department of  
Pharmacology

Mr. Vellano is a recipient  
of a 2010 Pre Doctoral  
Fellowship in  
Pharmacology/  
Toxicology

### *on the inside*

Francheska Colon-  
Gonzalez, Ph.D.

Thomas Jefferson  
University

Dr. Colon-Gonzalez was  
awarded a 2010 Post  
Doctoral Fellowship  
in Pharmacology/  
Toxicology

# Types of Awards

*The PhRMA Foundation Program(s) in Pharmacology/Toxicology include the following awards:*

## **Pre Doctoral Fellowships**

This program provides two years of stipend funding during the doctoral program after course work has been completed and the remaining training activity is the student's research project. Applicants must be full-time students and the Department Chair or graduate officer is expected to verify the applicant's doctoral candidacy. The pharmacology/toxicology research and teaching mission of the unit awarding the degree must be apparent as a core mission component on their web site.

## **Post Doctoral Fellowships**

This program was designed to facilitate career entry into pharmacology/toxicology at the level of postdoctoral training. The program provides stipend funding for recent graduates from Ph.D. programs who seek to develop pharmacology/toxicology research skills through formal postdoctoral training. Recent graduates from pharmacology Ph.D. programs interested in postdoctoral experience that integrates pharmacology with a morphologic specialty (cell biology/anatomy/pathology) are also eligible to apply for this fellowship. An application must include a research plan written by the applicant, the mentor's research record, and a description of how the mentored experience will enhance the applicant's career development in pharmacology/toxicology.

## **Sabbatical Fellowships**

This program provides stipend funding to enable faculty members at all levels with active research programs an opportunity to work at other institutions for periods of six months to one year to learn new skills or develop new collaborations that will enhance their research and research training activities in pharmacology/toxicology. Applicants are expected to have approval (or pending approval) for a sabbatical leave from their home institution, and provide an endorsement from the mentor who will sponsor their visiting scientist activity. Matching funds must be provided through the university.

## **Research Starter Grants**

This program supports individuals beginning independent research careers in academia who do not have other substantial sources of research funding. Applicants holding multi-year national competitive awards or grants supporting their independent research will not be considered. Applicants must be appointed to an entry-level tenure-track or equivalent permanent position in a department or unit responsible for pharmacology/toxicology activities as part of its core mission.

If the pharmacology/toxicology mission is not apparent on the sponsoring unit's web site, the sponsor letter must describe how the academic appointment will support career development in pharmacology/toxicology. A description of an applicant's career goals, and the Department Chair's description of institutional support for the applicant's salary, are also important components of the evaluation.

# General Information

## Eligibility Criteria

All applicants must be U.S. citizens or permanent residents. Before an individual is eligible to apply for a PhRMA Foundation award, an applicant must have a firm commitment from a university in the U.S. **Applications must be submitted by an accredited U.S. school.** Necessary documentation is described under the specific awards on the website.

## Applications

Applications are to be submitted via the Foundation website. Required reports and hardcopies should be sent to: Eileen Cannon, Executive Director, Pharmaceutical Research and Manufacturers of America Foundation, 950 F Street, NW, Suite 300, Washington, DC 20004, and received by September 1, 2011. Applications will not be accepted after the deadline date.

Detailed application requirements are stated on our website. Please visit [www.phrmafoundation.org](http://www.phrmafoundation.org) to access an application and to view the specific requirements.

## Use and Care of Laboratory Animals

Research projects involving animal subjects require a statement that the project will follow the guidelines set forth by the NIH Guide for the Care and Use of Laboratory Animals and that the project will be performed, reviewed, and approved by a faculty committee of the university.

## Reports

The recipient school is expected to submit an annual report on the disposition of the funds awarded by the PhRMA Foundation. Any change in the relationship between the institution and the individual must be brought to the attention of the Foundation, at which time the situation will be reviewed.

A progress report is to be submitted by the awardee ten months into the first year of funding of the fellowship. The second year of funding, when applicable, is contingent upon a satisfactory review of the report. A final report is due within 60 days after the conclusion of the grant. These reports must be signed by the sponsor of the award recipient.

Any publications, speeches, presentations, and all other materials that stem directly from the research supported by this grant must acknowledge the support of the PhRMA Foundation. Links to these publications should be forwarded to the PhRMA Foundation at [foundation@phrma.org](mailto:foundation@phrma.org).

# Pharmacology Programs



*Pharmaceutical research is a field on the cutting edge of science.*

Pharmaceutical research is a field on the cutting edge of science. It is purpose driven, intellectually challenging, and socially rewarding. Rapid scientific advances—in biochemistry, molecular biology, cell biology, immunology, genetics, and information technology—are transforming drug discovery and development, paving the way for more effective, precise drugs that have fewer side effects and will benefit patients of all ages and stage of life. Over the past 46 years, the PhRMA Foundation has provided grants and fellowships to thousands of young scientists to further their careers in pharmaceutical research.

*Now the opportunities are greater than ever.*

**The PhRMA Foundation** supports young scientists at critical points in their careers in emerging, new, and traditional disciplines important to the pharmaceutical industry by awarding competitive fellowships and grants. Mid-career scientists may also receive sabbatical support when seeking to redirect their research efforts. The aim of these programs is to encourage young scientists who will be the research leaders of tomorrow to pursue careers in research and education in areas essential to drug discovery.

## Ethical Considerations

The Scientific Advisory Committee as well as the program advisory committees of the PhRMA Foundation require the appropriate use of humans and animals in research. In their deliberations, these committees consider all aspects of a proposal and may deny support for many reasons. Careful consideration is given to human use and care of animals. For human and animal research, the project review committee requires a written statement confirming adherence to prevailing standards of ethical research practices, including institutional Review Board approval, before initiation of any research projects. In addition, assurance of informed consent is required for all research in which humans are involved.

## Termination

Circumstances may arise under which the school or the award recipient may wish to terminate the award before its completion. This may be arranged at any time by agreement between the school and the PhRMA Foundation. Termination will be made with the understanding that all unexpended funds will be returned to the PhRMA Foundation and that any unpaid balance of the award will be canceled. These award funds may not be transferred.

## Selection

Selection of the recipients of the awards will be made by the Board of Directors of the PhRMA Foundation, based upon the recommendations of the Scientific Advisory Committee and the Basic Pharmacology Advisory Committee. All applicants will be notified no later than **December 15, 2011**.

### *Pharmaceutical Research and Manufacturers of America Foundation*

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**[www.phrmafoundation.org](http://www.phrmafoundation.org)**  
to access an application and view the specific requirements.



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