

# Ph.D. in Regulatory Biology

## INTRODUCTION

This degree prepares students for careers as college and university teachers and as independent researchers in academia, industry or non-profit organizations. The program combines research and course work to provide training in a broad range of biology; it focuses on regulatory processes at levels from the molecular to the ecosystem. It is designed to develop the student's general knowledge of modern biology and specific expertise in the student's field of interest.

## DEGREE PROGRAM

The program is particularly strong in cell and molecular biology and in urban ecology and environmental science. It is offered jointly with the Lerner Research Institute of the Cleveland Clinic, which adds excellent opportunities for basic biomedical research using clinical material and in collaboration with clinicians.

A specialization in Cellular and Molecular Medicine is available to recognize this training. The Cleveland area and Cuyahoga River with its parks and old industrial areas are natural subjects for ecological and environmental studies.

## RESEARCH

The degree requires course work, original scientific research, a written grant proposal for an original research project and its oral defense (the candidacy examination), a written dissertation and its oral defense, presentation of the dissertation research at a Department Seminar, and a manuscript suitable for publication as an original research report in a scientific journal.



For students entering without a master's degree in a relevant area, ninety credits of research and course work are required, of which at least thirty-two are course work, including biochemistry, biostatistics, orientation, grant writing, and graduate seminars. Total credits and course work requirements are reduced accordingly for students

with an appropriate master's degree.

## DEGREE REQUIREMENTS

A complete application includes the online form, transcripts, GRE general test scores, (TOEFL scores for students without a degree from an English-speaking institution), at least two letters of recommendation, and a 1-2 page essay statement of career goals and research interests. Requirements for entry include a B.S. in biology or other appropriate area, GPA over 2.75 (3.00 required for consideration for graduate assistantships), good letters of reference; preferred qualifications include GRE percentile scores averaging over 50 and an excellent match of research interests to those of our faculty.

### For admission contact information:

Cleveland State University, Graduate Admissions Office, 2121 Euclid Ave., Cleveland, OH 44115  
(216) 687-5599, [www.csuohio.edu/gradcollege/](http://www.csuohio.edu/gradcollege/)

### For program contact information:

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