

## **Responsible Conduct in Research and Scholarship Policy**

### **Department of Biochemistry and Cell Biology**

Training in RCRS occurs at three levels:

#### **1) Collaborative Institute Training Initiative (CITI) training.**

This training is done through modules that have to be completed online. All members of Departmental labs that are engaged in research (Faculty, postdocs, graduate students, undergraduate students and technical staff) are required to complete CITI training. Graduate students are required to complete the training within their first semester in graduate school. Completion of CITI training is judged by passing a quiz given at the end of each module. There are seven required modules:

1. Research Misconduct
2. Data Management
3. Authorship
4. Mentoring
5. Peer Review
6. Conflicts of Interest
7. Collaborative Research

And two additional modules required if appropriate to the research project:

8. Using Animal Subjects in Research
9. Research Involving Human Subjects

#### **2) GRD 500: Integrity in Science**

This is a live course in which a combination of readings, videos, lectures, case discussion and other exercises are used to investigate the moral values intrinsic to the practice of science as well as investigate the rules – federal, state, institutional and contractual – with which scientists must comply. Ph.D. students are required to complete GRD 500 by the end of the 3rd semester.

#### **3) Continuing training for RCRS**

The department asks that each faculty member commit at least two group meetings per year to the discussion of RCRS issues. This allows issues of ethics or of scientific practice to be discussed in context of what is going on in the lab, for example, a discussion of why authorship on a lab paper is given in a particular order and has a specific subset of lab members, or a discussion of a proper recording in laboratory notebooks. The faculty member reports each training event to a our Director of Laboratories who will keep a record of the dates and participants for each session.

Everyone engaged in research is expected to participate in levels 1 and 3. Ph.D. students in the Department are required to participate in all three levels of training. Sixth year Ph.D. students must repeat GRD500 or take another formal course in RCRS, as required by their specific graduate program.

Departmental policy mirrors the RCRS training required by NIH and is subject to change as NIH standards change.