

APPENDIX B

Responsible Conduct of Research

Cell and Molecular Biology Graduate Program

All Students in the Cell and Molecular Biology Program will receive training in multiple areas of Responsible Conduct of Research (RCR) according to the schedule below:

Year 1 (Plan A Master's and PhD students)*:

1. 4 online [CITI](#) training modules:
 - Introduction to the Responsible Conduct of Research
 - Authorship
 - Plagiarism
 - Research Misconduct

2. At least 6 hours of face-to-face, discussion-based [workshops](#) (choose 4 workshops from the list below; 90-minute each):
 - Use of Animals in Research (<http://Train.ORA.msu.edu>)**
 - Human Subjects in Research (<http://Train.ORA.msu.edu>)**
 - Responsible Conduct of Research & Importance of Mentoring
 - Authorship & Plagiarism
 - Conflicts of Interest, Peer Review, & Collaboration
 - Data & Data Management
 - Rigor and Reproducibility
 - Research Misconduct, Investigations, & Review

By the end of the Spring semester of Year 2 (Plan A Master's and PhD students):

- 3 additional online CITI modules (new topics or refresher modules)

Annually, from Year 3 forward (PhD students):

- 3 hours of refresher training. This can be met by:
 - Completing new or refresher CITI modules (45 minutes each);
 - Attending additional face-to-face workshops or discussions (offered by the Graduate School, the CMB program, the student's research mentor/lab, or other departments);
 - Research-specific RCR activities (can include animal and/or human subjects training).

The Graduate School offers many [additional resources](#) that can be used to fulfill these requirements.

Tracking

Completion of your online RCR education can be accessed [here](#) and will be tracked by ABILITY. In addition, the student will record initial and continuing RCR training in the [Annual Progress Report](#) form, and training will be recorded by the CMB Program in GradInfo.

* *Year 1 requirements will be completed while students are part of the BMS program.*

** *Must be completed prior to any use of human and/or animal subjects in the research lab.*