Boston Children’s Hospital (BCH) established the RCR @ BCH seminar program to provide education in responsible conduct of research (RCR) and integrity in science as required by NIH. The course is designed to increase investigators’ awareness of ethical issues involving normative research practices throughout the course of a career. Trainees, fellows and faculty receiving support through NIH training, career development awards and research education grants are expected to complete course participation (as a participant or as a discussion leader, depending on career stage) no less than once every four years to be in compliance with NIH regulations. The curriculum is routinely updated to ensure compliance with NIH standards.

Course Objectives:
At the end of the course the student will be able to:
1) Understand and implement the standards of research integrity.
2) Understand and implement the ethical and regulatory requirements for conducting bench, animal, clinical, and public health research.
3) Recognize when the standards of research integrity are violated during laboratory practices, publication practices, and other research practices.
4) Understand how to comply with ethical and legal requirements in research.

Requirements
a) Participants must attend all eight classroom sessions (over several years), complete CITI training modules in order to comply with NIH regulations, and write a statement illustrating/demonstrating training in your individual departmental specific program. This includes instruction created by each departmental faculty for the trainees in its own department.

b) Participants should participate actively in each class by way of reading the suggested materials and constructive contributions to class discussion.

c) Completion of Research Ethics courses at DFCI, HCSPH are accepted

d) If a session is missed, it is possible to “make-up” the session in the next calendar year or if completion of the course is urgent by reading and reviewing the material with your lab mentor, with completion conveyed by signed letter to the committee for our records.

Monitoring
Children’s Hospital Office of Sponsored Programs (OSP) will maintain records of RCR training progress and completion to ensure compliance with NIH regulations.

- Attendance is documented by sign-in sheet.
- Attendance will not be credited if the participant is over 15 minutes late to class.
- Attendance at each session and completion of CITI training is monitored and recorded in CHERP for each individual, and required for NIH Career Development Awards (F-series and K-series).

Format
RCR @ BCH will offer both discussion-based, hour-long sessions held via classroom discussion and/or via Zoom with relevant literature associated with each seminar topic.

- The overall course is overseen and organized by the Office of Research Affairs and Integrity at BCH (Judy Fleming, PhD, Director) with senior-level faculty serving as facilitators, including Diane Bielenberg, PhD (Assistant Professor of Surgery, HMS); Joyce Bischoff, PhD (Research Associate...
BCH will make RCR training accessible through Collaborative Institutional Training Initiative (CITI). CITI online training modules incorporate readings, case studies and quizzes addressing topics in RCR.

This course meets the NIH training requirement for all trainees, fellows, participants, and scholars receiving support through any NIH training, career development award, research education grant, or dissertation research grant.

**Texts and Reading Materials**

a) Required materials:


2) ORI Introduction to the Responsible Conduct of Research

b) Additional reading materials will be posted on the course website.

**Subject Matter**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research Misconduct</td>
<td>including definition of research misconduct and policies for management of misconduct</td>
</tr>
<tr>
<td>Data Acquisition</td>
<td>management, sharing and ownership, intellectual property</td>
</tr>
<tr>
<td>Collaborative Science</td>
<td>including industry-based collaboration</td>
</tr>
<tr>
<td>Mentoring</td>
<td>mentor/mentee responsibilities and relationships</td>
</tr>
<tr>
<td>Responsible Authorship</td>
<td>publication practices &amp; responsible authorship</td>
</tr>
<tr>
<td>Contemporary Ethics</td>
<td>Contemporary ethical issues in biomedical research, and the environmental and societal impacts of scientific research</td>
</tr>
<tr>
<td>Peer Review</td>
<td>Pros and cons of peer review system</td>
</tr>
<tr>
<td>Conflict of Interest</td>
<td>conflict of interest and commitment (personal, professional and financial)</td>
</tr>
</tbody>
</table>