

2019

Being a Scientist: Responsible Conduct in Biomedical Research

(NSCI 327; 1 credit)

HSRF 400, Thursdays, 4:00- 5:15 PM

Course Co-Directors:

Margaret A. Vizzard, PhD (mvizzard@uvm.edu) and Gary Mawe, PhD (gmawe@uvm.edu)

This course arise from a growing public concern that many students, postdoctoral fellows, technicians, and even faculty, arrive in the laboratory not fully informed about the norms of science, the ethical requirements of research, or the policies and regulations that govern research. In addition, many situations in which ethical issues arise are complex, and they require a skilled approach for identifying and assessing problems and for finding solutions. This course provides a discussion forum for achieving these goals. Each 75 min session will consist of a presentation on the indicated topic, followed by a discussion of relevant cases and scenarios. **The goal of this course is to instill in trainees a strong sense of integrity in science so that they will propagate this culture to future generations of scientists.**

Whether you pass this class is based upon your attendance and participation in discussions. **You must sign and turn in your attendance sheet at the end of every session.** You are allowed to miss one session. If you miss more than one and you have a contacted us in advance with a reason for your absence, you may have an option to make the session up. You cannot make up more than 2 sessions. Postdocs and mentored junior faculty who are auditing this class to fulfill their training requirement in Responsible Conduct must also sign in.

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| Jan 17 | Introduction to Course I. Ethical thinking in clinical and research contexts | Margaret A. Vizzard, PhD Timothy Lahey, MD <i>Professor, Division of Infectious Diseases, Department of Medicine</i> |
| Jan 24 | II. Misconduct in Science | Charles Irvin, PhD <i>Assistant Dean for Faculty at the Larner CoM Professor, Medicine</i> |
| Jan 31 | III. Statistics in Experimental Design/Data Analysis/Interpretation | Jan Bunn, PhD <i>Research Assistant Professor, Engineering and Mathematical Sciences</i> |
| Feb 7 | IV. Image Manipulation | Doug Taajtes, PhD <i>Professor, Pathology Director, Microscopy Imaging Center</i> |
| Feb 14 | V. Confidentiality/Peer Review | Gregory Holmes, MD <i>Professor and Chair, Neurological Sciences</i> |
| Feb 21 | VI. Responsible Authorship | David Warshaw, PhD <i>Professor and Chair, Molecular Physiology and Biophysics</i> |
| Feb 28 | VII. Collaborations | Gary Mawe, PhD <i>Professor, Neurological Sciences</i> |
| March 7 | VIII. Mentor-Trainee Relationships | Christopher Francklyn, PhD <i>Professor, Biochemistry</i> |
| March 11-15 | SPRING BREAK | SPRING BREAK |
| March 21 | IX. Human Subjects Complete IRB training prior to class http://www.uvm.edu/irb/tutorial/ | Alexandra Potter, PhD <i>Assistant Professor, Psychiatry</i> |
| March 28 | X. Animals in Research | Margaret A. Vizzard, PhD <i>Professor, Neurological Sciences</i> |
| April 4 | XI. Open Access Publishing; Evaluating Scientific Impact of Papers | Gary Ward, PhD <i>Professor, Microbiology and Molecular Genetics</i> |

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| April 11 | XII. Rigor and Transparency | Rodney Scott, <i>Professor, Medicine/ Immunobiology Medicine</i> |
| April 18 | XIII. Intellectual Property: Ownership and Sharing | Kerry Swift, MS <i>Technology Licensing Officer</i> |