Responsible Conduct of Scientific Research
BMS 670/EHS 675
Course Syllabus
Fall 2012
Fridays, 1:00-2:00 p.m.
Center for Medical Science 1st Floor Conference Room

INSTRUCTORS

Robert Jansing, Ph.D.
Research Scientist V
Assistant Professor
Department of Environmental Health Sciences
Contact information: ESP D622
(518) 473-0321
jansing@wadsworth.org

Kathy Chou, Ph.D.
Adjunct Assistant Professor
Department of Biomedical Sciences
ESP C345
(518) 474-8969
yxc10@health.state.ny.us

Todd Gray, Ph.D.
Research Scientist, NYSDOH Wadsworth Center
Assistant Professor, U of Albany School of Pub Health
5225 Center for Medical Science
130 New Scotland Avenue
Albany, NY 12208
518.473.6078
gray@wadsworth.org

OFFICE HOURS:

By Appointment.

COURSE DESCRIPTION:

The course is designed to meeting current federal regulations, which require that all institutions receiving NIH training grants provide training in the responsible conduct of research. The purpose of this course is to engage students in reading, considering, and discussing the responsible conduct of scientific research.

COURSE PREREQUISITES:

None

COURSE FORMAT:

Course topics will be covered by a combination of one or more of the following elements: lectures, assigned readings in the course text (“Introduction to the Responsible Conduct of Research”), additional recommended readings provided by the instructors, assigned case studies, and discussion in class. The course will be structured
around weekly 1 hour seminar sessions. The first half of the session will be devoted to a discussion of the assigned readings and the ethical issues which they raise. The second half of the session will be devoted to discussing and applying those issues to the assigned case for the session.

COURSE REQUIREMENTS:

Attendance and participation in classroom discussion is mandatory and will provide the basis for credit. Grades are assigned on a “Satisfactory/Unsatisfactory” basis.

To receive credit for the course, each student will be expected to:

1) Lead at least one classroom discussion; and

2) Actively participate in all classroom discussions.

Although students are expected to attend all classes, we understand that emergencies can sometimes arise. Students who miss a class will be asked to write a short paper outlining a controversy or discussing an issue relevant to the responsible conduct of scientific research. The topic of the paper will be assigned by one of the course instructors. The length of the paper will increase exponentially for each class missed, for the first missed class, students will write a 2-page paper; for the second class, a 4-page paper; for the third class, an 8-page paper, etc. Students who fail to read the assigned materials and who attend class unprepared to fully participate also will be required to write a paper.

ONLINE TEXT: ORI Introduction to Responsible Conduct of Research
Nicholas H. Steneck, Revised 2007


Additional readings will be assigned by the instructors. All students are expected to review the assigned reading and cases prior to class. Students also are encouraged to independently research and review other cases and papers related to the weekly discussion topics.

SOME RECOMMENDED ON-LINE RESOURCES:

American Journal of Bioethics/
Bioethics Net: http://bioethics.net/


Journal of Medical Ethics Online: http://jme.bmj.journals.com/

Natl. Bioethics Advisory Committee: http://georgetown.edu/research/nrcbl/nbac/

Office of Research Integrity: http://ori.dhhs.gov/
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Additional Readings

8/31 Introduction to Course; Ethics and Decision-making
- What is ethics?
- Ethics and Morality
- Value of Ethics
- Ethical Relativism
- SUNY Albany Academic Honesty Guidelines

9/7 Research Misconduct
- Fixing Fraud
- BioTech Fraud
- NYSDOH APPM 633.4
- Misconduct Case 1

9/14 Data Management Practices
- David Baltimore/Imanishi-Kari Case
- Data Management University of Pittsburgh
- To Replicate or Not To Replicate?

9/21 Mentoring and Trainee Responsibilities
- Yaner_Graduate Student Mentoring
- Bob Bailey Case Study

9/28 Collaborative Research
- Wadsworth Center Materials Transfer Agreement Form
- Wadsworth Center Sample Collaboration Agreement Form

10/5 Authorship / Publication and Plagiarism
- A Plague of Plagiarism,
- Ghost Writers
- Charlie West Case Study
- Diane Archer Case Study
- Search Internet for Stephen Ambrose and Doris Kearns Goodwin cases

10/12 Peer Review
- Chemical and Engineering News Article on Peer Review 2/11/08
- Stem Cell Paper Retraction
- Students asked to review manuscript
- Marcus and Oransky Nature 2011

10/19 Conflicts of Interest
- COI Reading 1
- COI Reading 2
- Jesse Gelsinger Case
- Levinsky NG. (2002) Nonfinancial Conflicts of Interest in Research
- Vioxx Studies
10/26  The Welfare of Laboratory Animals
- Moral Status of Animals- British Broadcasting Corporation
- HUSU Statement on Animals in Biomedical Research
- The Lifeboat Test-McCrone
- Jenny Ito Case Study
- Lab-Bred Chimps Nature 2011

11/2  The Protection of Human Subjects I
- McGuire Dunn 1
- Belmont Report
- Transplant Denial- Kaplan
- Dead Son’s Sperm Case

11/9  The Protection of Human Subjects II
- Informed Consent Document
- Report_FDA
- Paul Gelsinger
- Ethical Neuroscientist
- NASA Bioethicist

11/16  Cross-Cultural Research
- Trovan and Meningitis case study
- Ellen- Maternal viral transmission study case study
- Clinical Trails Guatemala

11/30  Genetic Testing and Research
- Arthur Caplan- “Peter Pan” Treatment  2007
- New York State Civil Rights Law 79, Appendix L
- Property Rights_Genetic Material
- Human oocyte letter -Nature
- Myriad Genetics-Science Insider

12/7  Guest Lecture