

Scientific Integrity and Responsible Conduct in Research NYU School of Medicine

Semester: Fall 2016

Course Number:

Course Director: Keith Micoli, Ph.D.

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Assistant Course Directors: Debasmita Roy, Ph.D., debasmita.roy@med.nyu.edu

Description:

The purpose of this course is to familiarize postdoctoral trainees (including MD/PhD candidates) with basic ethical issues confronting scientists in biomedical research. There are three broad learning goals for the students/postdocs taking the course: 1) To gain insights into how one can responsibly conduct research throughout their career. 2) To know how to properly address unethical situations. 3) To comprehend that new ethical issues/ concerns will arise and that the best way to tackle these will be to discuss ethical situations with colleagues, seek guidance from proper channels, and routinely participate in responsible conduct in research training courses/ seminars.

The course includes reading, lectures, and discussion sections. Each student is assigned to a discussion section, and is required to attend all 8 sessions of the course. Attendance is taken, and students missing more than **ONE** session must retake the course. If a student misses the discussion section, they are required to complete a 2-page essay on the case study assigned by the section leader (due next class). Please note, trainees in certain programs are required to retake the course every 4 years.

The course addresses ethical considerations for human and animal subjects, scientific integrity in data management, analysis, authorship, and publication. Additional topics include peer review, scientific fraud, conflict of interest, mentoring, intellectual property, collaborations (including industry) and the role of scientists in society.

The course is designed to meet or exceed all NIH requirements for instruction in the responsible conduct of research, as updated in NOT-OD-10-019 Nov. 24, 2009.

Textbook: *Scientific Integrity* by Francis L. Macrina, ASM Press, Washington, D.C., 4th Edition (2014).

Locations & Times: All discussion sections are held on Mondays from 5:00 – 6:30 in the 4th Floor Seminar Room in the Skirball Institute **EXCEPT** Sept 26th: Skirball 3rd FI Seminar Rm

Course Structure & Communication:

The introductory lecture familiarizes students with the layout and requirements of the course, and highlights the mandates from the National Institutes of Health. Sessions 2-5 will involve part lecture and part discussion format while sessions 6 and 7 will be exclusively discussion based.

Students are responsible for completing the reading assignment prior to attending class. Each reading will be reviewed at the beginning of each session and key points will be posted on ALEX.

The **final** take-home assignment will be distributed on November 7th and **is due** back no later than **5:00 pm on Friday, November 18th**.

Course Schedule:

Date	Topic	Assigned Reading
Session 1: Monday, September 19th 5pm	Course Introduction: Scientific Integrity & Responsible Conduct in Research Keith Micoli	Macrina, F.L., Scientific Integrity Chapters 1, 2 & 11 Kevles, D.J., The Assault on David Baltimore, New Yorker. 1996 May 27, 72(13): 94-98, 100- 104, 106-109
Session 2: Monday, September 26th 5pm	Use of Animals in Research Keith Micoli	Macrina FL, Scientific Integrity Chapters 6
Note: Sept 26th class will be held in the 3rd FI Seminar Room of Skirball Institute		
Session 3: Monday, October 3rd 5pm	Data Management, Intellectual Property and Publications Debasmita Roy	Macrina, F.L., Scientific Integrity Chapters 10, 9 & 4
Session 4: Monday, October 10th 5pm	Mentoring and Conflict of Interest Debasmita Roy	Macrina, F.L., Scientific Integrity Chapters 3, 8 & 7
Session 5: Monday, October 17th 5pm	Ethical Consideration of Human Subjects Keith Micoli	Macrina, F.L., Scientific Integrity Chapters 5 Article: "On Being A Scientist – RCR"
Session 6: Monday, October 24th 5pm	Group Presentations Keith Micoli & Debasmita Roy	
Session 7: Monday, October 31st 5pm	Group Presentations Keith Micoli & Debasmita Roy	
Session 8: Monday, November 7th 5pm	Course Wrap-up & view The Lab Handout take home exam due by 5pm November 14th Debasmita Roy	