

**ETHICS IN RESEARCH (PHCL 7605)**  
**FALL 2007**  
**Wednesdays, 4:00-5:00 PM**  
**Course Director: Dr. James Sikela**

<u>Date</u>	<u>Topic</u>	<u>Lecturer</u>
Aug. 29	Ethical issues in animal research	Dr. James Stevens
Sept. 5	UCDHSC Ethics Committee	Dr. John Repine
Sept. 12	Ethical issues in human research	Dr. Mary Geda
Sept. 19	Conflict of Interest and Patent Issues in Research	Dr. Michael Browning
Sept. 26	Communities and Research Ethics	Dr. Paul Spicer
Oct. 3	Trust and trustworthiness in biomedical research	Dr. Mark Yarborough
Oct. 10	Ethical issues in genetic testing and research	Dr. James Sikela
Oct. 17	Ethical Issues in stem cell and gene therapy research	Dr. Marilyn Coors
Oct. 24	Discussion groups*	Case Studies* A1-A5
Oct. 31	Discussion groups	Case Studies B1-B4
Nov. 7	Discussion groups	Case Studies B5-B8
Nov. 14	Discussion groups	Case Studies C1-C2
Nov. 21	Discussion groups	Case Studies D1-D3
Nov. 28	Discussion groups	Case Studies E1-E2, F1-F3
Dec. 5	Discussion groups	Case Studies G1-G2, H1-H4
Dec. 12	Discussion groups/papers due	Case Studies I1-I2, J1-J3

Discussion group leaders:

Dr. Jim Sikela (Course director, x43385, james.sikela@uchsc.edu)  
 Dr. Tim Benke  
 Dr. Marilyn Coors  
 Dr. Paula Hoffman  
 Dr. David Jones

\* Case studies are described in "Teaching the Responsible Conduct of Research Through a Case Study Approach". Topics and case studies to cover are indicated in the above schedule. Alternatively Discussion Groups can use "Introduction to the Responsible Conduct of Research" by N.H. Steneck and D. Zinn. Copies of either text can be obtained from Matthew Berta (X43619, RC1-North, Rm 6126).

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The Department of Pharmacology in the University of Colorado School of Medicine organizes and offers an interactive course during the fall quarter entitled "Ethics in Research". All of the pre-doctoral and post-doctoral NRSA trainees supported by individual fellowships or institutional research training grants, as well as faculty supported by career development awards, at the University of Colorado Health Sciences Center (UCHSC) are required to complete this course. In fact, virtually all of the pre-doctoral students and post-doctoral fellows participate in this course during their first year at UCHSC. The School of Medicine also encourages all faculty to attend and/or participate in this course. In 2006, 64 persons took this course for credit.

"Ethics in Research" is designed to inform and sensitize students, trainees and faculty to the problems of fraud, misconduct and unethical practices in scientific research. It meets once weekly for one hour during the fall semester. The course consists of 8 didactic lectures with question/answer periods, 8 small group discussions and a final paper. The 2007 course outline is included. The lectures cover topics that are largely informative but often also raise points that are followed up in the discussion groups. The course director and 4 other faculty serve as discussion group leaders. Thus, there are typically 10-12 persons per discussion group, with a valuable mix of pre-doctoral students, post-doctoral fellows and faculty in each group. The two texts listed in the course outline below provide the majority of the research ethics issues/cases discussed. However, individuals also often wish to talk about situations that they themselves have experienced. Besides being informative, this course raises many issues, some of which have clear-cut answers, but many of which do not. Thus, the participants, now aware of these issues, will be better prepared to deal with them throughout their scientific careers.

Topics to be discussed (cases in text books and examples from the experiences of the discussion group leaders and participants):

Conducting research	"Massaging" of data
Reporting of research	Authorship
Plagiarism	Handling research materials and information
Mentoring and lab supervision	Reviewing of grants and papers
Conflict of interest	Misconduct in research
Whistle blowing	

Text books used for case discussions:

Korenman, S.G. and Shipp, A.C. Teaching the Responsible Conduct of Research through a Case Study Approach: A Handbook for Instructors. AAMC: Washington, DC. 1994.

Steneck, N.H. ORI Introduction to the Responsible Conduct of Research. Dept. of Health and Human Services. 2003.

Grading of the course:

Grades will be based on attendance, discussion group participation and on a short paper (2+ pages). This paper should describe an ethical dilemma regarding research with which the student is familiar (personal, observed or one of the case studies from the texts) and how it was resolved or should have been resolved. This paper will be due during final week with no exceptions.

The textbooks used for the discussion groups can be checked out from Matthew Berta, P18-6126 on the 6<sup>th</sup> floor of RC1-North.