

BMS 214: Ethics and the Responsible Conduct of Research Spring 2018

Faculty Director: Bruce Conklin, MD, BConklin@gladstone.ucsf.edu
Coordinator: Rosalie Winslow, PhD(c), rosalie.winslow@ucsf.edu

LOCATIONS: Wednesdays – Parnassus, Nursing Building, N-517
Thursdays – Mission Bay, Genentech Hall Auditorium

Time policy: 10:00 – 11:30 AM *Doors close at 10:10 AM. Late arrivals will NOT be given credit for the session and will need to make up the session next year*

Laptop policy: This course uses lectures, case studies and group discussions to teach students about some of the most important but difficult responsible practice topics facing professional researchers. Therefore, students are expected to be fully engaged in all class lectures and discussions, and the course organizers and directors ask you to refrain from using laptops, tablets and handhelds for personal or research-related work during class time.

Sign-in policy: You **MUST** sign the attendance sheet to receive credit for the session!

Attendance Policy:

In order to pass BMS 214 you must participate in **all seven sessions**. However, individual programs have specific requirements for making up a missed session. **Please contact Rosalie Winslow, rosalie.winslow@ucsf.edu as soon as possible if you will be missing a session and she will detail your options for making up the class.** Most programs only allow **one** absence so be sure to do your absolute best to attend all weeks of class.

Week 1

Wednesday, April 4 (N-517) or Thursday, April 5 (GEN-HALL AUDITORIUM)

Scientific Misconduct and Ethics in Science

Bruce Conklin, MD – Professor, Medical Genetics and Senior Investigator, Gladstone Institutes

Developing a well-reasoned response to an ethical problem in scientific research. The meaning of research misconduct and the regulations, policies, and guidelines that govern research misconduct in PHS-funded institutions. Includes topics such as fabrication, falsification, and plagiarism; error vs. intentional misconduct; institutional misconduct policies; identifying misconduct; procedures for reporting misconduct; protection of whistleblowers; and outcomes of investigations, including institutional and federal actions.

Week 2

Wednesday, April 11 (N-517) or Thursday, April 12 (GEN-HALL AUDITORIUM)

Animal Welfare in Research

Gina Alvino, PhD – Senior Editor, PLOS ONE

Melissa Reeves, PhD – Sadler Faculty Fellow, UCSF

Issues important in the use of animals in conducting research. Includes topics such as definition of research involving animals, ethical principles for conducting research on animals, federal regulations governing animal research, institutional animal care and use committees, and treatment of animals.

Week 3

Wednesday, April 18 (N-517) or Thursday, April 19 (GEN-HALL AUDITORIUM)

Scientific Record Keeping and Data Management

Ariel Deardorff, MLIS – Assessment and Data Librarian

Accepted practices for acquiring and maintaining research data. Proper methods for record keeping and electronic data collection and storage in scientific research. Includes defining what constitutes data; keeping data notebooks or electronic files; data privacy and confidentiality; data selection, retention, sharing, ownership, and analysis; data as legal documents and intellectual property, including copyright laws.

Week 4

Wednesday, April 25 (N-517) or Thursday, April 26 (GEN-HALL AUDITORIUM)

Science Outside of the Academy - Conflicts of Interest

David Fung – Senior Licensing Officer, UCSF Chancellor/EVC/FAS

Joan Doherty – Associate Director, UCSF Office of Ethics and Compliance

(4/25) Frank McCormick, PhD, FRS, DSc (HON) – Professor, Helen Diller Family Comprehensive Cancer Center

The definition of conflicts of interest and how to handle conflicts of interest. Types of conflicts encountered by researchers and institutions. Includes topics such as conflicts associated with collaborators, publication, financial conflicts, obligations to other constituencies, and other types of conflicts.

Week 5

Wednesday, May 2 (N-517) or Thursday, May 3 (GEN-HALL AUDITORIUM)

The Art of Mentorship and Being Mentored

Keith Yamamoto, PhD – Professor, Cellular and Molecular Pharm. and Vice Chancellor for Research

The responsibilities of mentors and trainees in predoctoral and postdoctoral research programs. Includes the role of a mentor, responsibilities of a mentor, conflicts between mentor and trainee, collaboration and competition, selection of

a mentor, abuse of the mentor/trainee relationship, and policies for handling misconduct.

Week 6

Wednesday, May 9 (N-517) or Thursday, May 10 (GEN-HALL AUDITORIUM)

Science in the Genomic Era: Biomedical Research and Human Subjects

Barbara Koenig, PhD, RN – Director UCSF Bioethics Program

Deborah Grady, MD, MPH – Professor, Department of Medicine and Associate Dean of Clinical and Translational Research, UCSF

Kevin Shannon, MD – Auerback Distinguished Professor, Pediatric Molecular Oncology, UCSF

Issues pertaining to biomedical research and human subjects' protections in the genomic era: privacy, confidentiality and protection of human tissue donors; management of genomic data; informed and open consent; and ethical issues in genomics research with vulnerable populations.

Week 7

Wednesday, May 16 (N-517) or Thursday, May 17 (GEN-HALL AUDITORIUM)

Publications and Peer Review

Elizabeth Silva, PhD – Associate Dean of Graduate Programs, UCSF

Kaveh Ashrafi, PhD – Professor, Physiology, UCSF

The purpose and importance of scientific publication, and the responsibilities of the authors. Includes topics such as collaborative work and assigning appropriate credit, acknowledgments, appropriate citations, repetitive publications, fragmentary publication, sufficient description of methods, corrections and retractions, conventions for deciding upon authors, author responsibilities, and the pressure to publish. Also, the purpose of peer review in determining merit for research funding and publications. Includes topics such as, the definition of peer review, impartiality, how peer review works, editorial boards and ad hoc reviewers, responsibilities of the reviewers, privileged information and confidentiality, institutional animal care and use committees, and treatment of animals.