

Two ways to organize important issues in research integrity

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Update on the Requirement for Instruction in the Responsible Conduct of Research

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- a. conflict of interest – personal, professional, and financial
- b. policies regarding human subjects, live vertebrate animal subjects in research, and safe laboratory practices
- c. mentor/mentee responsibilities and relationships
- d. collaborative research including collaborations with industry
- e. peer review
- f. data acquisition and laboratory tools; management, sharing and ownership
- g. research misconduct and policies for handling misconduct
- h. responsible authorship and publication
- i. the scientist as a responsible member of society, contemporary ethical issues in biomedical research, and the environmental and societal impacts of scientific research

Other stated (by KDP)

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1. Fundamentals
 - a. Data - management, sharing, ownership
 - b. Authorship
 - c. Publication
2. Science community
 - a. Conflict of interest - personal, professional, financial
 - b. Horizontal collaboration | Vertical collaboration
 - c. Collaboration with industry
3. Hierarchy
 - a. PI vs student etc. (mentoring, etc.)
 - b. Peer review
4. Offensives and policies
 - a. research misconduct
 - b. human subjects
 - c. animal subjects
 - d. responsible and safe laboratory and field practices
5. Beyond scientists
 - a. scientist as a responsible member of society
 - b. contemporary ethics issues in science
 - c. environmental impacts of science
 - d. social impacts of science

See also Pimple, Kenneth D. Pimple. 2002. "Six domains of research ethics: A heuristic framework for the responsible conduct of research." *Science and Engineering Ethics* 8, pp. 191-205. <http://teachrcr.us/rs/6domains.pdf>



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