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Survey of Medical School Researchers Regarding their Institution's Research Misconduct Policy and Procedures (6/6/08)

Section I. In this section we ask some questions about your demographic characteristics as well as your educational background and training.

1. In what year were you	ı born? 19
2. What is your gender?	Male (1) Female (2)
	es (post bachelor's) have you received and in what discipline did you Degree Discipline Discipline
No, neit Yes, a r Yes, a p	eted a residency or a post-doctoral training appointment? her (1) esidency appointment (2) ost-doctoral appointment (3) hat department or specialty?
	nave you been conducting biomedical research? Years
Basic So	you characterize your current research activity? Would you say it's: cience, or (1) Research? (2)
6. In the past 10 years, o Investigator (PI)? Fewer than 5 gra From 5 to 9 grau From 10 to 19 g 20 or more gran	nts (2) rants (3)

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7. In the past 10 years, approximately what is the total a	ward value of all the NIH research project
grants on which you have been the PI? Less than \$1,000,000	(1)
From \$1,000,000 to less than \$5,000,000	(2)
From \$5,000,000 to less than \$10,000,000	(3)
\$10,000,000 or more	(4)
8. In what department/division do you maintain your pr	imary (or only) appointment?
Please Specify	
9. Is your primary appointment in this medical school?	Yes (1) [IF YES, GO TO 11] No (2)
10. In what school or affiliate is your primary appointm	ent?
Please Specify	
11. In what year did you begin your employment with the	his institution?
12. What is your current institutional title or rank?	
Research Associate	(1)
Assistant Professor Associate Professor	(2) (3)
Full Professor	(4)
Emeritus Professor	(5)
Other: [Specify]	(6)
13. How dependent would you say your position in this research grant funding?	institution is upon continuing to obtain
Not at all dependent on continued resea	9 ,
Dependent for less than half of my salar	
Dependent for half or more of my salar Fully dependent on continued research	• • • • • • • • • • • • • • • • • • • •
I mly dependent on continued resemen	grant runding (+)
Section II. Every institution that receives research procedures for complying with federal regulations in funded projects. In this section, the questions focus policy and procedures with respect to how it says it is misconduct.	ce document that states its policy and involving research misconduct on PHS-on your awareness of your institution's
1. Have you ever read your institution's research miscory Yes, I read them fully (1) Yes, I read them in part (2) No, I have not read them at all (3)	nduct policy and procedures?

2. On a scale that runs from 0 to 10, how would you describe your knowledge of your institution's research misconduct policy and procedures? [CIRCLE A NUMBER]
[Know Nothing] <u>0 1 2 3 4 5 6 7 8 9 10</u> [Know Everything]
(0 indicates that you know nothing about your institution's research misconduct policy and procedures, while10 indicates that you know everything.)
3. How familiar are you with what your institution's policy says about:
a. The federal definition of activities that constitute research misconduct?1 Very Familiar 2 Somewhat Familiar 3 Not Very Familiar 4 Not At All Familiar
b. To whom allegations of research misconduct should be officially reported?1 Very Familiar 2 Somewhat Familiar 3 Not Very Familiar 4 Not At All Familiar
c. What information should be included in an allegation of research misconduct? 1 Very Familiar 2 Somewhat Familiar 3 Not Very Familiar 4 Not At All Familiar
d. The process by which allegations of research misconduct are examined?1 Very Familiar 2 Somewhat Familiar 3 Not Very Familiar 4 Not At All Familiar
e. Procedures for protecting "complainants" (whistleblowers) from retaliation? 1 Very Familiar 2 Somewhat Familiar 3 Not Very Familiar 4 Not At All Familiar
5. Indicate which of the following activities the federal regulations specifically define as research misconduct? [CHECK ALL THAT APPLY]
a. Financial conflict of interest b. Falsification c. Fraudulent use of research funds d. Plagiarism e. Not maintaining confidentiality f. Ignoring IRB requirements g. Immoral behavior h. Violating research protocol i. Embezzlement j. Fabrication (1) (2) (3) (4) (5) (6) (7) (7) (8) (9) (10)
6. Do your institution's research misconduct policy and procedures state:
a. Whether allegations of research misconduct can be made anonymously or not? No (1) Yes (2) Don't Know (3)
b. Whether allegations of research misconduct can be reported orally or not? No (1) Yes, (2) Don't Know (3)

No (1) Yes, (2) Don't Know (3)
7. Do your institution's research misconduct policy and procedures describe the process by which a determination will be made whether research $$ misconduct actually occurred? $$ No (1) Yes (2) Don't Know (3)
8. Do they say that the institution will protect persons from retaliation if they make an allegation of research misconduct in good faith? No (1) Yes (2) Don't Know (3)
9. Do they indicate that the institution will take action against persons who knowingly make false allegations of research misconduct? No (1) Yes (2) Don't Know (3)
10. Do they say that assessments, inquiries, and investigations into allegations of research misconduct must be treated confidentially by <i>everyone</i> involved. No (1) Yes (2) Don't Know (3)
Section III. Now we have some questions about when and how research faculty and staff learn about your institution's research misconduct policy and procedures?
 How long after new research faculty and staff are hired by your current institution are they typically exposed to its research misconduct policy and procedures? In the first few days of employment Within the first month of employment Before completing one year of employment They are never formally exposed to them [GO TO 4] Other [Specify]
 2. In what context are these policy and procedures typically first presented to new research faculty and staff? [CHECK ALL THAT APPLY] (1) As part of new employee group orientation.
 (2) To meet new grant award requirements. (3) As part of the IRB's continuing educational activities. (4) In a Responsible Conduct or Research (RCR) program. (5) In an "all hands meeting on the topic. (6) By means of a general distribution of the document (printed or electronic). (7) Through an e-mail notice and referral to a web site. (8) Other [Specify]

3. In what format are they first typically presented? (1) As part of a printed faculty manual (2) As an electronic version of a faculty manual (3) As an on-line course (4) In a live group/workshop setting [GO TO 5] (5) In a one on one discussion [GO TO 5] (6) Other [Specify] (7) Don't Know
4. Do research faculty and staff have an opportunity to attend a workshop, class, or other live presentation to get clarification or answers to questions about the institution's research misconduct policy and procedures? No (1) Yes (2) Don't Know (3)
5. Are the institution's research misconduct policy and procedures included in a $\underline{\text{printed}}$ handbook that is readily available to research faculty and staff in a library or some other $\underline{\text{public}}$ location? No (1) Yes (2) Don't Know (3)
6. Are the institution's research misconduct policy and procedures readily available to research faculty and staff on the institution's internal or external web site? No (1) Yes, internal (2) Yes, external (3) Yes, both internal and external (4) Don't Know (5)
7. Does your institution require that research faculty and staff periodically certify that they have reviewed its research misconduct policy and procedures? No (1) Yes, annually (2) Yes, when avorded new research grants (2)
Yes, when awarded new research grants (3) Don't Know (4) Other (5) [Specify]
8. Have you ever been required to review your institution's research misconduct policy and procedures? No (1) Yes (2) Don't Know (3)
9. Does your institution have a responsible conduct of research (RCR) training program? No (1) Yes (2) Don't Know (3)

10. Have you participated in any of the respondent No (1) Yes (2) Don't Know (3)	ponsible conduct of research (RCR) training?
	aining specifically discuss research misconduct? No (4) Yes (5)
• • • • • • • • • • • • • • • • • • • •	ng the research of one or more doctoral degree e mentoring new investigators in your current
No (1) _ [GO TO SECTION IV]
)_
Yes, more than one (3	_
12. How often do you talk with your doctor about issues related to research misconduct Never (1) [GO Rarely (2) Sometimes (3) Often (4)	
Respondence Possible repercussions on your careed To whom a The process by which all The kinds of evidence needs Potential response of The amount of time and energy How to reward What active What it means that every report of a research power of the process of	are you discussed? In a proper records and documentation. (1)
14. In what context(s) do these discussions [CHECK ALL THAT A]	PPLY]
T	During a seminar on the topic. (1)
	discussion of research methods. (2)
	osal, or manuscript preparation. (3)
	act articles in scientific journals. (4)
Other [Specify]	luct appear in the popular press. (5)
	tudent(s), post-doctoral fellow(s), or "mentee(s)" who enduct and are considering making a report?

- Section IV: Next we are interested in researchers' perceptions of efforts made by their institutions to support the responsible conduct of research and seek to resolve allegations of research misconduct. The following statements represent different perceptions of an institution's commitment to identifying and handling cases of research misconduct. Please indicate whether you strongly agree, agree, disagree, or strongly disagree with each statement as it applies to your current institution.
- 1. I think this institution does all it can to assure that members of the research faculty and staff are familiar with the policy and procedures governing research misconduct.
 - 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree, 5. Don't Know
- 2. I believe that this institution has made a concerted effort to educate research faculty and staff about what constitutes research misconduct.
 - 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree, 5. Don't Know
- 3. I feel that the climate at this institution makes research faculty and staff feel comfortable and ethically responsible reporting potential research misconduct to the appropriate official.
 - 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree, 5. Don't Know
- 4. I feel that there is a need for more opportunities for research faculty and staff to learn what they should do when they have evidence of research misconduct.
 - 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree, 5. Don't Know
- 5. I think that this institution has made a concerted effort to educate research faculty and staff about whom to report allegations of research misconduct.
 - 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree, 5. Don't Know
- 6. I believe that persons who make allegations of research misconduct at this institution need not fear that they will be ostracized or marginalized by colleagues.
 - 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree, 5. Don't Know
- 7. I believe that this institution takes appropriate measures to protect persons who make allegations of research misconduct from being the objects of retaliation.
 - 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree, 5. Don't Know
- 8. I am confident that the personnel at this institution who are responsible for reviewing allegations of research misconduct are trained and prepared to arrive at a fair and impartial judgment.
 - 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree, 5. Don't Know
- 9. It seems to me that this institution could do more to make everyone feel obliged to report misconduct when they suspect it may have occurred.
 - 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree, 5. Don't Know
- 10. I feel that persons who are considering making allegations of research misconduct at this institution should seriously consider the impact it will have on their professional career opportunities.
 - 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree, 5. Don't Know

Section V. People have different ideas about what constitutes research misconduct and the best way to deal with suspicions about the work of colleagues at their institution. We would like you to indicate whether you strongly agree, agree, disagree, or strongly disagree with the points of view expressed in each of the following statements.

the points of view expressed in each of the following statements.
1. I would have to be absolutely sure that the actions of one of my colleagues represented research misconduct before I would make such an allegation to an institutional official? 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree
2. I would raise the possibility of misconduct with the person I suspected in order to give that person a chance to correct the situation before making an allegation to an institutional official. 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree
3. I would discuss my suspicions with other colleagues and get their perspectives before I decided whether or not to report a colleague I suspected of research misconduct to an institutional official. 1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree
4. I would immediately report a colleague to an institutional official if I had the slightest suspicion that the person was involved in research misconduct.1. Strongly Agree, 2. Agree, 3. Disagree, 4. Strongly Disagree
Section VI: This next section starts off with questions about direct experience you may have had at this or any other institution with allegations about research misconduct, and then ends with items that ask for your assessment of factors you think influence whether persons will report research misconduct.
1. That you know of, have you ever had an allegation of research misconduct made about your research at this institution or elsewhere?
No, never (1) [GO TO 2]
Yes, at this institution (2) Yes, elsewhere (3)
Yes, here and elsewhere (4)
[IF YES:] 1a. Did this experience affect your willingness to make an allegation of research misconduct against someone else?
No (1) Yes, I am less likely (2)
Yes, I am more likely (3)
2. Have you ever made an allegation of research misconduct about a colleague at your current institution or elsewhere?
No, never (1) [GO TO 3]
Yes, at this institution (2)
Yes, elsewhere (3)
Yes, here and elsewhere (4)
[IF YES:] 2a. Did this experience affect your willingness to make a subsequent allegation of research misconduct?
No (1) Yes, I am less likely (2)
Yes, I am less likely (2) Yes, I am more likely (3)
1 cs, 1 and more likely (3)

made of research misconduct, either at this institution or elsewhere?
No, never (1) [GO TO 4] Yes, at this institution (2) Yes, elsewhere (3) Yes, here and elsewhere (4)
[IF YES:] 3a. Did this experience affect your willingness to give testimony as a witness in a research misconduct proceeding? No (1) Yes, I am less likely Yes, I am more likely (3)
4. Have you ever been a member of an inquiry or investigation committee investigating an allegation of research misconduct, either at this institution or elsewhere?
No, never (1) [GO TO 5] Yes, at this institution (2) Yes, elsewhere (3) Yes, here and elsewhere (4)
[IF YES:] 4a. Did this experience affect your future willingness to serve as a member of an inquiry or investigation committee investigating an allegation of research misconduct? No (1) Yes, I am less likely (2) Yes, I am more likely (3)
5. We would like to know how important you think each of the following considerations is in a decision to report suspected research misconduct?
a. The research misconduct could result in people being hurt. Very Important (1) Important (2) Not Important (3)
b. The identity of the person making the report will remain anonymous. Very Important (1) Important (2) Not Important (3)
c That if research misconduct is not stopped, then the scientific record will be severely damaged. Very Important (1) Important (2) Not Important (3)
d. Having first hand evidence of the research misconduct. Very Important (1) Important (2) Not Important (3)

3. Have you ever given testimony as a witness in an inquiry or investigation into an allegation

e. Being confident that the matter will be handled fairly and justly. Very Important (1) Important (2) Not Important (3)
f. Knowing to whom reports of research misconduct should be made. Very Important (1) Important (2) Not Important (3)
g. The belief that all scientists are obliged to report research misconduct. Very Important (1) Important (2) Not Important (3)
6. How important do you think each of the following factors is in a person's decision to not report suspected research misconduct?
a. The fear of retaliation by the person accused of misconduct. Very Important (1) Important (2) Not Important (3)
b. The potential for ostracism by colleagues. Very Important (1) Important (2) Not Important (3)
c. Expectation that damage will result to ones own professional reputation and/or career. Very Important (1) Important (2) Not Important (3)
d. Don't know what constitutes research misconduct at the institution. Very Important (1) Important (2) Not Important (3)
e. Too much time will be spent in the allegation resolution process. Very Important (1) Important (2) Not Important (3)
f. Don't know to whom the misconduct is supposed to be reported. Very Important (1) Important (2) Not Important (3)

Section VII: Sometimes it is difficult to identify actions that constitute research misconduct. In this final section, we have described instances of researcher behavior that would generally be considered bad practice. Some of these could be considered research misconduct according to federal regulations. Please indicate for each of the following scenarios whether you think the behavior would likely be considered research misconduct according to the federal regulations.

1. You are responsible for tracking the radioactive materials received in the labs. It is normal procedure for your colleagues to circulate all manuscripts to lab staff for review and comments. In your review of a colleague's manuscript, you notice that there are more subjects involved in experiments using radioactive iodine than were discussed in the lab meeting. You also know that no radioactive stocks have come into the laboratory during the proceeding weeks. You calculate the quantity of radioactive iodine that would have had to be used with the subjects in the experiments and conclude that this was not possible.

Likely Research Misconduct (1)
Not Likely Research Misconduct (2)
Don't Know If Research Misconduct (3)
[IF LIKELY:] 1a. What would you do in such a situation?
Talk to the colleague (1) Talk to the colleague's supervisor (2) Report this to the designated institutional official (3) I would do nothing (4)
2. A colleague is clinical investigator on a drug trial sponsored by a pharmaceutical firm. The drug appears to show some efficacy but also has some potentially serious side-effects. A resident tells you that your colleague is recruiting patients into the trial without disclosing to them the existence of a consulting contract with the firm.
Likely Research Misconduct (1) Not Likely Research Misconduct (2) Don't Know If Research Misconduct (3)
[IF LIKELY:] 2a. What would you do in such a situation?
Talk to the colleague (1) Talk to the colleague's supervisor (2) Report this to the designated institutional official (3) I would do nothing (4)

Animal Care and Use Committee discussed the study at length because it potentially involved inflicting some serious pain and suffering on the animals. The Committee approved the study after your colleague agreed to procedures that would substantially minimize pain and suffering. You've learned that your colleague is not actually using these procedures.
Likely Research Misconduct (1) Not Likely Research Misconduct (2) Don't Know If Research Misconduct (3)
[IF LIKELY:] 3a. What would you do in such a situation?
Talk to the colleague (1) Talk to the colleague's supervisor (2) Report this to the designated institutional official (3) I would do nothing (4)
4. You are working on a series of related neurophysiology studies in a research group led by a more senior investigator. At a series of group meetings, the group leader assigned leadership and authorship for each of the studies and the expected resulting manuscripts. The group leader then confirmed the assignments with an e-mail to the group. You were assigned one set of experiments and first authorship on the two manuscripts expected to result from them. You conduct the experiments, draft both manuscripts, and send them to the group leader for review. In return, the group leader tells you that he has decided to be first author on both manuscripts despite being only minimally involved in conducting the experiments and writing the manuscripts.
Likely Research Misconduct (1) Not Likely Research Misconduct (2) Don't Know If Research Misconduct (3)
[IF LIKELY:] 4a. What would you do in such a situation?
Talk to the more senior investigator (1) Talk to the more senior investigator's supervisor (2) Report this to the designated institutional official (3) I would do nothing (4)
5. A colleague of yours learned that a technician made up test results and combined them with some legitimate data to make the table in a grant proposal more convincing. The colleague dismissed the lab technician, but because the grant application was due the next day, submitted the grant application as it was with the intention of correcting it later.
Likely Research Misconduct (1) Not Likely Research Misconduct (2) Don't Know If Research Misconduct (3)
[IF LIKELY:] 5a. What would you do in such a situation?
Talk to the colleague (1) Talk to the colleague's supervisor (2) Report this to the designated institutional official (3) I would do nothing (4)

3. A colleague of yours is doing a study involving guinea pigs. You know that the Institutional

6. You head a central data storage and analysis center serving a number of departments. You notice that the statistical tables for two different experiments included in a colleague's manuscript look identical. You point that out to him. He says it was the result of a file error and that he will fix it. Several months later you happen to see the actual publication and the tables for the two experiments have been substantially changed. Curious, you look to see what data files for this work your colleague has sent recently to the data storage facility. There are none that look like those in the publication, and the files you previously found problematic have been deleted.
Likely Research Misconduct (1) Not Likely Research Misconduct (2) Don't Know If Research Misconduct (3)
[IF LIKELY:] 6a. What would you do in such a situation?
Talk to the colleague (1) Talk to the colleague's supervisor (2) Report this to the designated institutional official (3) I would do nothing (4)
7. You and a colleague have been working together on a clinical trial. As you are writing up the results, you find you have a major disagreement with how your colleague plans to interpret the data. You strongly believe that your colleague is wrong, even misleading, and that her interpretation should not be published because it could lead other researchers down a useless path and give false hopes to patients. Your colleague tells you that she intends to publish the data and her interpretation, and since you disagree, you are welcome to do the same.
Likely Research Misconduct (1) Not Likely Research Misconduct (2) Don't Know If Research Misconduct (3)
[IF LIKELY:] 7a. What would you do in such a situation?
Talk to the colleague (1) Talk to the colleague's supervisor (2) Report this to the designated institutional official (3) I would do nothing (4)

8. You have recently initiated a working relationship with a new collaborator. One day, as you enter the collaborator's lab, you overhear his two post-docs talking about your joint research project. They sound defeated and annoyed. One says "This study is no different than all the others we have done. Again, we need to figure out how to get the results he wants to demonstrate." The other responds, "We just will have to figure out what data points to omit so that he gets the results he wants. I really thought this time it would be different because his new collaborator is so well respected by his post-docs."
Likely Research Misconduct (1) Not Likely Research Misconduct (2) Don't Know If Research Misconduct (3)
[IF LIKELY:] 8a. What would you do in such a situation?
Talk to the collaborator (1) Talk to the collaborator's supervisor (2) Report this to the designated institutional official (3) I would do nothing (4)
9. You are the principal investigator on an NIH-funded study to examine the incidence of a serious communicable disease in minority sub-populations in several cities. In examining your data set it appears that one of the project's interviewers is very productive and is conducting more interviews than the interviewers in the other four sites. You do a random audit of that interviewer's work and discover that, although the interviews had only recently been conducted, one address is an abandoned house, several phone numbers are either not working or not correct, and in six repeat interviews you are told that the respondent never talked with an interviewer.
Likely Research Misconduct (1) Not Likely Research Misconduct (2) Don't Know If Research Misconduct (3)
[IF LIKELY:] 9a. What would you do in such a situation?
Talk to the interviewer (1) Talk to the interviewer's supervisor (2) Report this to the designated institutional official (3) I would do nothing (4)
That is the end of the questions. Please feel free to provide a comment about the survey in the box below.
Thank you.