

# Responsible Conduct of Research

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# Responsible Conduct of Research

*The practice of scientific investigation with integrity and involves the awareness and application of established norms and ethical principles in the performance of all activities related to scientific research.*

# Core RCR Areas

Authorship

Collaborative  
Research

Data  
Management

Mentoring

Conflicts of  
Interest

Peer Review

Research Misconduct &  
Reporting

Field – Specific

# MSU RCR Training Plan

How:

- CITI Training
- PHL 491 or BIOB 424
- ORC in-person training



## Question 5

# Responsible Conduct of Research

If you want to take Responsible Conduct of Research (RCR) Course, please make your selection below.

Choose one answer

- Biomedical Responsible Conduct of Research Course
- Social and Behavioral Responsible Conduct of Research Course
- Physical Science Responsible Conduct of Research Course
- Humanities Responsible Conduct of Research Course
- Responsible Conduct of Research for Engineers

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# Field-Specific RCR

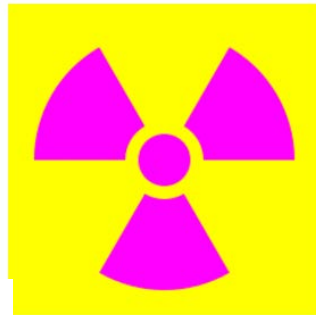


- Safe Lab Practice
- Biosafety
- Radiation Safety
- Chemical Safety
- Animal Subjects
- Human Subjects

Contact:  
Office of Research Compliance or  
Safety & Risk Management



CAUTION					
 CAUTION RADIOACTIVE MATERIALS	 BIOHAZARD	BIOSAFETY LEVEL <b>2</b>	 TOXIC GAS	 TOXIC CHEMICALS	 CANCER HAZARD
CANCER SUSPECT AGENT	Reproductive Hazard	 Food & Beverage Prohibited			
			<b>Legend</b> Blue = Health Hazard Red = Fla Yellow = Reactivity White = Oxid. Hazard Green = Health Hazard Orange = Reactivity Red/White = Health Hazard Red/White = Oxid. Hazard Red/White = Health Hazard Red/White = Oxid. Hazard		
Principal Contact: John Doe    Room: 908-777    Phone: 555-555-5555			Special Abbrev:		
Department: Pharmacology			Emergency Contact:		
Principal Contact: John Doe			Campus Phone:		
Home Phone: 555-555-5555			Home Phone:		
Cell Phone:			Cell Phone:		
Fax:			Fax:		
If an emergency, please contact VURPD at 1-811-1111			Posted by:		
For more information, please contact VURPD at 2-267			Posted by:		



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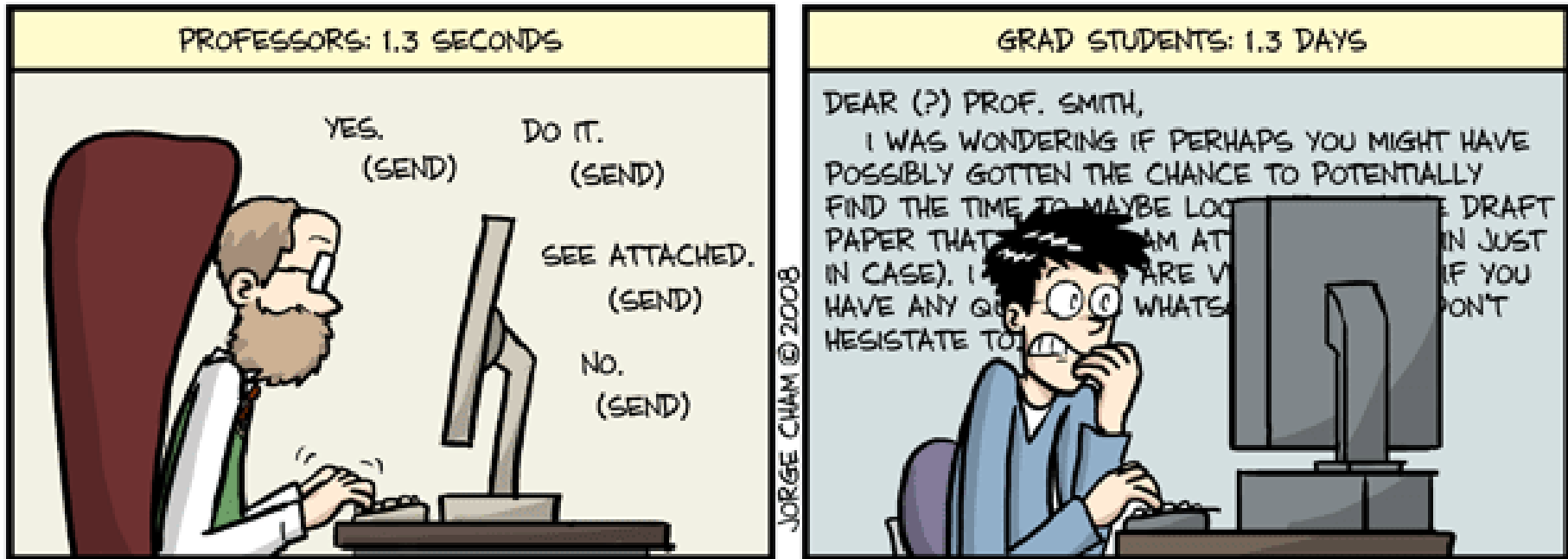
Research Misconduct &  
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Field – Specific



# Mentoring

## AVERAGE TIME SPENT COMPOSING ONE E-MAIL



WWW.PHDCOMICS.COM

# Mentoring

## Mentor Responsibilities

- ❖ Providing scientific knowledge
- ❖ Passing on skills and techniques
- ❖ Guiding student work
- ❖ Assisting with achieving career goals
- ❖ Providing contacts and relationships with other scientists

## Mentee Responsibilities

- ❖ Contributing to the scientific goals of the lab
- ❖ Providing a fresh perspective
- ❖ Gaining scientific knowledge

# Mentor/Mentee Issues? Talk to...

Start Here

Mentor/Mentee

Department  
Head

Dean

Academic  
Affairs

Office of  
Institutional  
Equity

Office of  
Research  
Compliance

Graduate  
School

Counseling  
Center

ethics.point

Hotline

Graduate  
Representative

Human  
Resources

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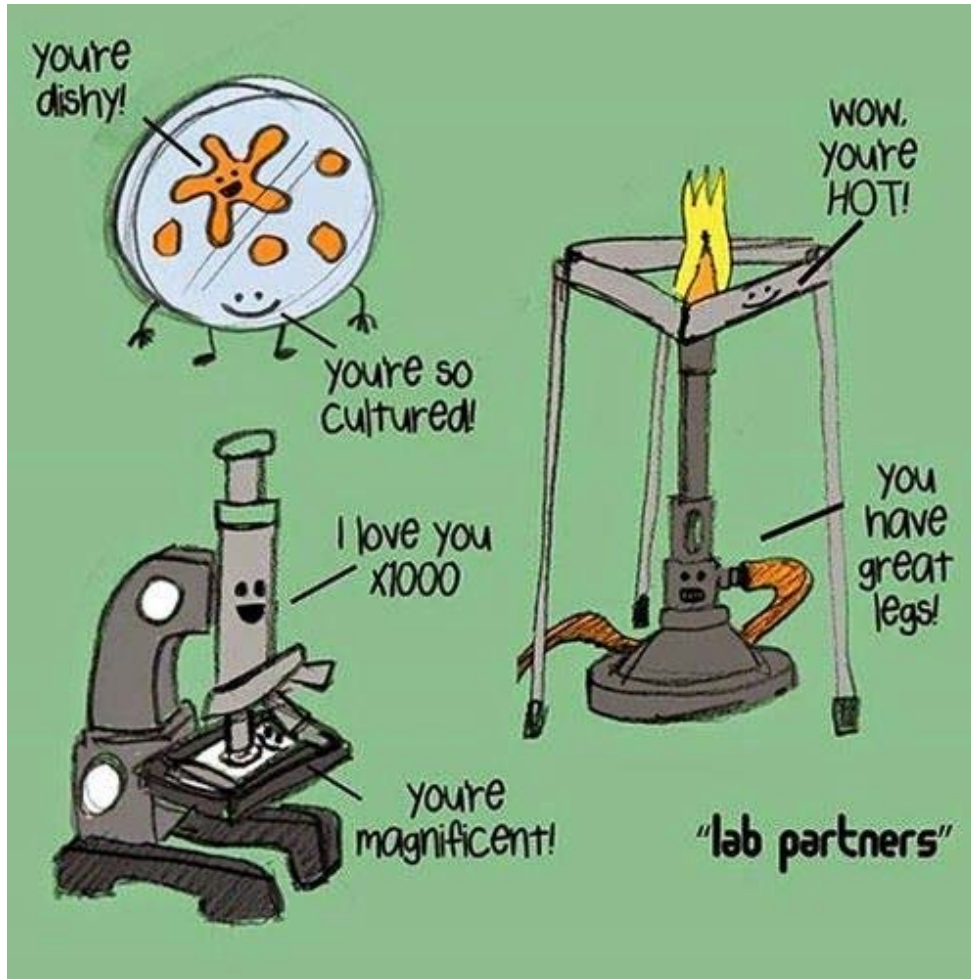
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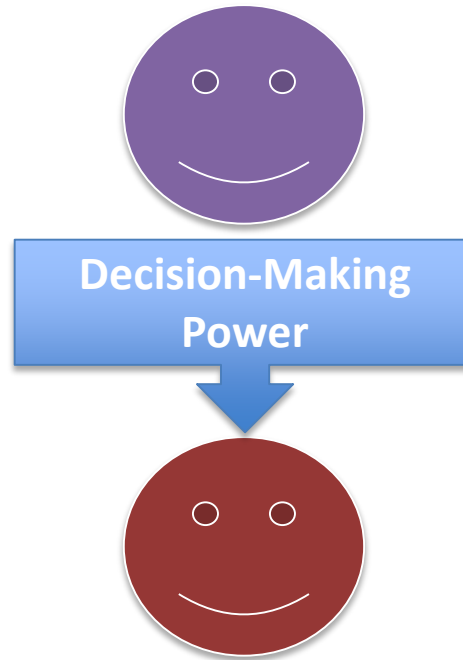
# Conflicts of Interest



- Dating
- Relatives

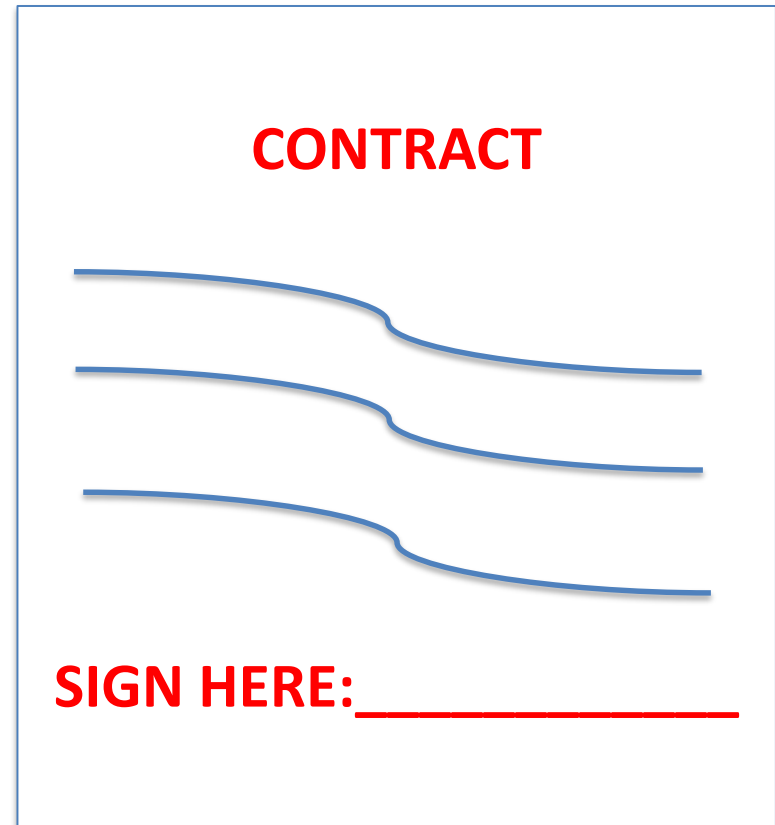
[Source: <http://clinical-laboratory.blogspot.com/2014/08/tools-of-microbiology.html>]

# Conflicts of Interest



# Conflicts of Interest

- Outside Employment



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# Research Misconduct

In proposing, performing, or reviewing research results:

Fabrication

Falsification

Plagiarism

# Research Misconduct

In proposing, performing, or reviewing research results:

**Fabrication**: making up results and recording or reporting them.

# Research Misconduct

In proposing, performing, or reviewing research results:

**Falsification**: manipulating research materials, equipment, or processes, or changing or omitting results such that the research is not accurately represented in the record.

## BE AWARE:

Undocumented image manipulations can lead to accusations of research misconduct.

67%

of ORI's closed research misconduct cases involved image manipulation.\*

\*between 2011 and 2015





# Research Misconduct

In proposing, performing, or reviewing research results:

**Plagiarism**: appropriation of another person's ideas, processes, results, or words without giving proper credit.

# Criteria for Research Misconduct

- ✓ Represents a significant departure from accepted practices
- ✓ Has been committed intentionally, knowingly, or recklessly
- ✓ Can be proven by a significant amount of evidence

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○ NOT Misconduct: honest, unintentional error

# Research Misconduct Policy

[MSU Policies and Procedures](#) > [Electronic Research Data Security Policy](#) > Research Misconduct Policy

## Research Misconduct Policy

**Subject:** Research Misconduct Policy  
**Revised:** November 15, 2012  
**Effective:** November 15, 2012  
**Review Date:** November 2015  
**Responsible Party:** Office of Research Compliance

### TABLE OF CONTENTS

- 100.00 Policy on Research Misconduct
- 200.00 Definitions
- 300.00 Reporting the Allegation
- 400.00 The Investigation
- 500.00 Confidentiality and Protection of Reputations
- 600.00 Appointment of Impartial Inquirer or Investigator
- 700.00 Notice to Respondent
- 800.00 Maintenance and Custody of Research Records and Evidence
- 900.00 Interim Protective Actions
- 1000.00 Notification and Coordination with ORI

At MSU:



# POSSIBLE RED FLAGS OF RESEARCH MISCONDUCT



## TIME

- Usable data are only generated when there is a pressing deadline
- Experiments are completed faster than usual

## RESULTS

- Data are too good to be true
- Findings can't be replicated by others in the lab



# POSSIBLE RED FLAGS OF RESEARCH MISCONDUCT



## LACK OF TRANSPARENCY

- Raw data can't be produced when requested
- Research materials and protocols are kept hidden
- Work is mostly done when no one else is around

- Reasons for misconduct

**WHAT DRIVES PEOPLE TO COMMIT RESEARCH MISCONDUCT?**



# YOU SUSPECT RESEARCH MISCONDUCT NOW WHAT?

## IF YOU ARE SUSPICIOUS

### AVOID CONFRONTATION

Direct confrontation may lead to retaliation and/or tampering with evidence.

### KEEP NOTES

Document details and save communications related to the misconduct. This will help you recall important information needed by the institution.

### EDUCATE YOURSELF

Read your institution's research misconduct policy or contact the U.S. Office of Research Integrity (ORI) with questions.

### SEEK SUPPORT

You may want to get advice from someone you trust to help you consider all options.

## CONSULT YOUR RESEARCH INTEGRITY OFFICER (RIO)

RIOs can help you better understand the situation. You can speak in hypotheticals as you consider making an official allegation.



**What if I need to report something that falls outside of fabrication, falsification, or plagiarism?**

# Talk to...

Mentor/Mentee

Department  
Head

Dean

Counseling  
Center

Graduate  
School

Academic  
Affairs

Office of  
Research  
Compliance

Office of  
Institutional  
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ethics.point

Hotline

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Representative

# When you get off track...



[the derailment and wreck of the Granville - Paris Express, October 22, 1895.]



if you  
SEE something | SAY something™

Source: <https://www.dhs.gov/see-something-say-something>

# Office of Research Compliance Areas

1. [Animal Care and Use \(IACUC\)](#)
2. [Biosafety \(IBC\)](#)
3. [Conflict of Interest](#)
4. [Export Control](#)
5. [Human Subjects \(IRB\)](#)
6. [Non-Disclosure & Material Transfer Agreements](#)
7. [Radiation Safety](#)
8. [Reporting](#)
9. [Research Misconduct](#)
10. [Responsible Conduct of Research](#)