

# An introduction to research misconduct generally and misconduct in human subjects research specifically

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# Research misconduct is the:

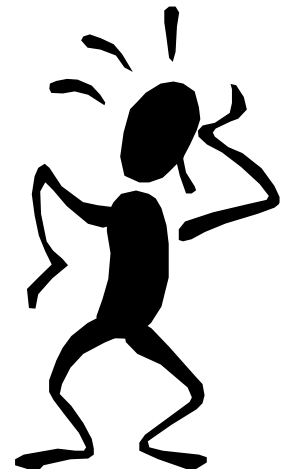
- **fabrication,**
- **falsification, or**
- **plagiarism in**

- ☐ proposing,
- ☐ performing,
- ☐ reviewing research, or in
- ☐ reporting research results.

**\*\*Research misconduct does not include honest error or differences of opinion.**

# Why attention to research misconduct:

- Diminishes the public trust in science and research
- Diminishes the scientific value of research
- Diminishes the professionalism of scientists and researchers
- Squanders public funds on research that cannot be replicated and research practices that are suspect
- Potential harm to research subjects and/or the public



# Federal regulatory requirement for a research misconduct process

- Office of Science and Technology published Federal Research Misconduct Policy - 2000  
**All federal agencies** supporting intramural/extramural research must have policy
- 42 CFR 93.102 - for institutions applying for or receiving PHS support for research, research training, or research related activities
  - >>>>> Office of Research Integrity, DHHS  
<http://ori.hhs.gov/>

# 3 requirements to find RM

## 42 CFR 93.104

- ❑ Significant departure from accepted practices of the relevant research community
- ❑ Committed intentionally, knowingly, or recklessly
- ❑ Proven by a preponderance of the evidence
  - ❖ Misconduct is more likely to be true than not



# VCU

## Misconduct in Research and Scholarly Activities

**Policy Type: Administrative**

**Responsible Office: Office of Research**

**Initial Policy Approved: 05/18/1990**

**Current Revision Approved: 04/05/2012**

**Policy**

**<http://www.assurance.vcu.edu/Policy%20Library/Misconduct%20in%20Research%20and%20Scholarly%20Activities.pdf>**

**VCU Policy Library**

Applicable to all research and scholarly activities regardless of funding

# Report research misconduct concerns to RIO

**Anyone who becomes aware of a possible incident of research misconduct by a member of the university shall immediately report the information to the Research Integrity Officer (RIO). (VCU policy)**

VCU Research Integrity Officer, Office of Research:

Monika Markowitz, PhD – 827-2157, [msmarkow@vcu.edu](mailto:msmarkow@vcu.edu)

Or report to any of the contacts below. If the concern involves research or alleged misconduct, it is referred to the RIO.

VCU Office of Compliance and Integrity: (804) 828-2336 or [ucompliance@vcu.edu](mailto:ucompliance@vcu.edu)

VCU Helpline – confidential, anonymous:

1-888-242-6022 or [www.vcuhelpline.com](http://www.vcuhelpline.com)

VCU Ombudsman, Office of the Provost:

Frank Baskind, PhD – 828-1040, [ombuds@vcu.edu](mailto:ombuds@vcu.edu)

# RM process, briefly

Allegation about faculty or staff

(align with definition? credible? enough evidence?)

**If YES:** — 1) Inquiry – warrant an Investigation?

**YES:** — 2) Investigation – did research  
misconduct occur and who did it?

**YES:** { Appeal is possible  
Sanctions – given outcome of appeal

Report to ORI or NSF as relevant – either may pursue further



# Case Summaries

[http://ori.hhs.gov/case\\_summary](http://ori.hhs.gov/case_summary)

## 2013

[Case Summary: Adibhatla, Rao M.](#)

[Case Summary: Aggarwal, Nitin](#)

[Case Summary: Aprikyan, Andrew](#)

[Case Summary: Doreian, Bryan W.](#)

[Case Summary: Han, Dong-Pyou](#)

[Case Summary: Karnik, Pratima](#)

[Case Summary: Poore, Matthew](#)

[Case Summary: Savine, Adam C.](#)

[Case Summary: Sheehy, Timothy](#)

[Case Summary: Wang, Hao](#)

[Case Summary: Xu, Baoyan](#)

## 2012

[Case Summary: Elton, Terry S.](#)

[Case Summary: Hauser, Marc](#)

[Case Summary: Kim, Sinae](#)

[Case Summary: Ma, Jian](#)

[Case Summary: Mayack, Shane](#)

[Case Summary: Miller, Michael W.](#)

[Case Summary: Muchowski, Paul J.](#)

[Case Summary: Ravindranath, Mepur H.](#)

[Case Summary: Smart, Eric J.](#)

[Case Summary: Thiruchelvam, Mona](#)

[Case Summary: Zach, Calleen S.](#)

[Case Summary: Zhang, Shuang-Qing](#)

## 2011

[Case Summary: Bois, Philippe](#)

[Case Summary: Jagannathan, Jayant](#)

[Case Summary: Jamieson, Jennifer](#)

[Case Summary: Manojlovic, Marija](#)

[Case Summary: Sanyal, Shamarendra](#)

[Case Summary: Visvanathan, Mahesh](#)

[Case Summary: Wang, Sheng](#)

[Case Summary: Weber, Scott](#)

# Assessing Research Misconduct Allegations Involving Clinical Research

## FALSIFICATION - examples

- substituting one subject's record for that of another subject;
- falsely reporting to a data coordinating center that certain clinical trial staff, who were certified to perform the procedures on the subjects, had done so, when they had not;
- altering the dates and results from subjects' eligibility visits;
- altering the dates on patient screening logs and/or submitting the same log with altered dates on multiple occasions;
- failing to update the patients' status and representing data from prior contacts as being current;
- altering the results of particular tests on blood samples to show that the test accurately predicted a disease or relapse;
- backdating follow-up interviews to fit the time window determined by the study protocol; and
- falsifying the times that blood samples were drawn from human subjects.

## FABRICATION - examples

- creating records of interviews of subjects that were never performed;
- making up progress notes for patient visits that never took place and inserting them into the medical record to support published and unpublished research reports; and
- preparing records for calls and follow-up contacts to subjects who had already died.

**Note** that research conducted without informed consent is noncompliance, but may not be research misconduct

# IRB and RIO collaboration in cases of alleged research misconduct

Recognize and/or question possible research misconduct :

- ❖ in reports submitted to IRB,
- ❖ irregularities in continuing review submissions,
- ❖ questionable signs in site visits



report to RIO

**IRB works with RIO to coordinate fact finding and reporting to federal agencies**

# Resources/articles about research misconduct

- DHHS Office of Research Integrity - <http://ori.hhs.gov>
- Fanelli D (2009) [How Many Scientists Fabricate and Falsify Research? A Systematic Review and Meta-Analysis of Survey Data](#), PLoS ONE 4(5): e5738.doi:10.1371/journal.pone.0005738
- Steen, R G (2010) **Retractions in the scientific literature: is the incidence of research fraud increasing?** J Med Ethics doi:10.1136/jme.2010.040923<http://jme.bmj.com/content/early/2010/12/23/jme.2010.040923>