Integrating Integrity into the Research Process through Training

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National Institutes of Health (NIH)

Primary Federal agency in the United States for conducting and supporting medical research

- Executive Branch, White House
- Department of Health and Human Services (DHHS), *includes the Office of Research Integrity*
- NIH
  - *27 Institutes and Centers*
  - *Over 18,000 employees*

National Institutes of Health

✏~ $30 billion in Congressional appropriations

✏~ 80,0000 applications/year

✏~ 50,000 active grants

- \> 325,000 individuals supported
- \> 3,000 universities, medical schools, and other research institutions
- 50 states and around the world

✏~ 10% of NIH budget supports

\> 6,000 intramural scientists

National Institutes of Health

☞ Not regulatory

☞ Promote through partnership

- Responsible conduct of research

  http://grants.nih.gov/training/responsibleconduct.htm

- Training of young scientists

  http://grants.nih.gov/training/extramural.htm

- Career development

  http://grants.nih.gov/training/careerdevelopmentawards.htm

- Peer review

  http://grants.nih.gov/grants/peer/peer.htm

Honor system in the United States

- ☞ Self-reporting, self-identification
- ☞ Professional responsibility
- ☞ Strong ethical practice
- ☞ Reverence for science
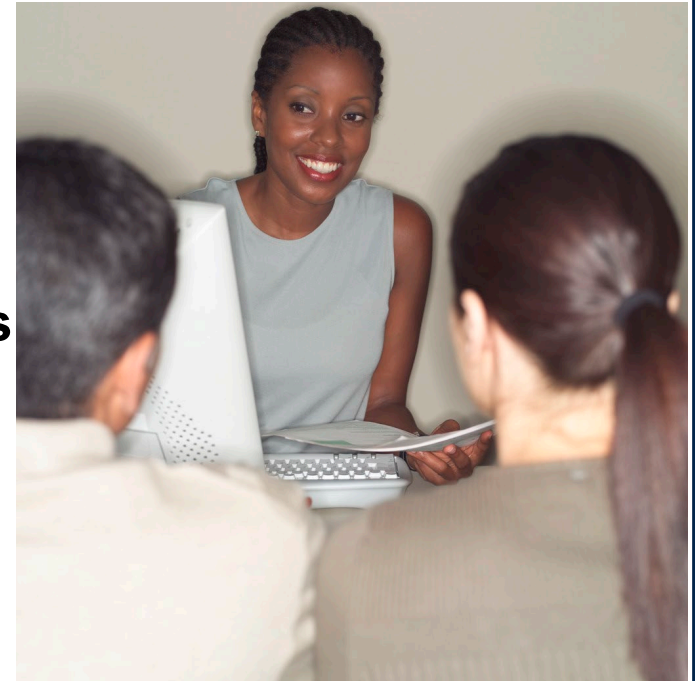- ☞ Misconduct first handled locally

Honor system in the United States

☞ Peer review

- **Grant applications**
- **NIH – 42 CFR 52h**
- **Manuscripts for publications**
- **Abstracts for scientific meetings**

☞ The role of the press

- **New findings, discoveries**
- **Wrongdoing**

NIH Support for Training in Research

☞ Ensures diverse pools of highly trained scientists

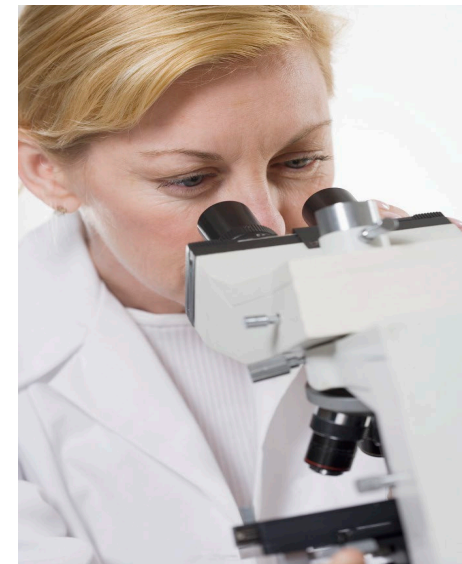☞ Prepares qualified individuals for careers in health services research

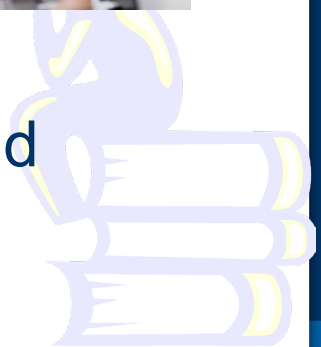# NIH Support for Training in Research

☞National Research Service Awards (NRSA)

- Individual fellowships
  - **Predoctoral (~ 500/yr)**
  - **Postdoctoral (500–900/yr)**
  - **Senior fellows (~100/yr)**
- Institutional Training Grants
  - **~ 350/year**

☞FY2007

- $764M for training awards
- ~16,000 positions/yr supported on training and fellowship awards
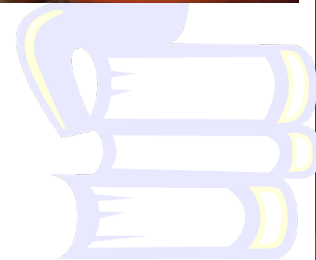
NIH Support for Career Development

☞ Types of career development awards:

- Clinical Scientists
- Mentored Research
- Specific Focus Areas
- Established Investigators
- Pathways to Independence

☞ FY 2006

- ~ $650M for all "K" awards
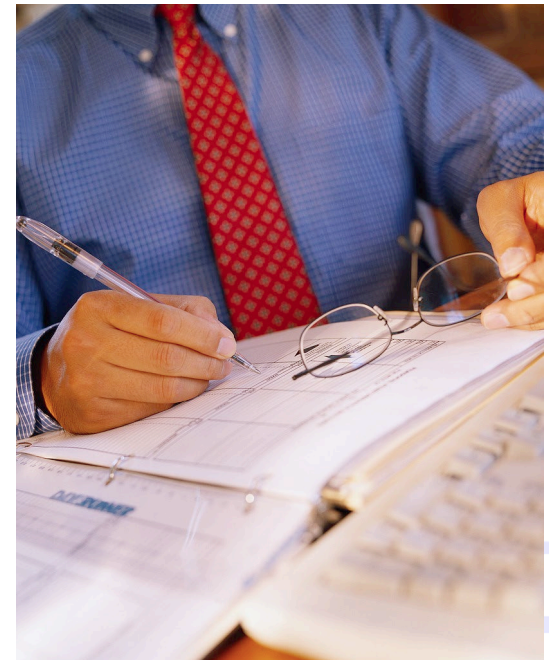- ~ 4200 "K" awards

Instruction in Responsible Conduct of Research

☞ *Plans required for applications:*

- NRSA Awards
- Institutional Training Awards
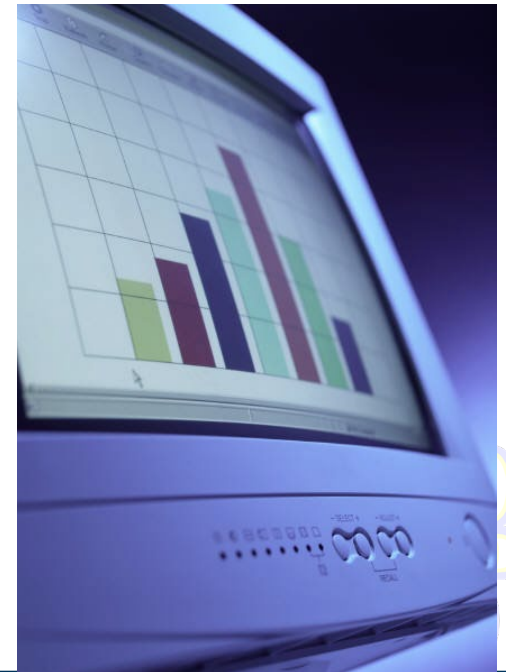- Career Development Awards

☞ *Plans address*

- Training provided

by sponsoring institution

- Candidate's plans for

obtaining instruction

Instruction in Responsible Conduct of Research

✏ NIH does not prescribe specific curriculum

✏ NIH does provide general guidance

- Conflict of interest
- Responsible authorship
- Data sharing & management
- Policies for handling misconduct
- Policies regarding use of human
  & animal subjects

✏ Plans considered in peer review

Instruction in Responsible Conduct of Research

☞ Mentoring

☞ Online resources

Virginia Commonwealth University **http://www.courses.vcu.edu/micr510/**

University of Pennsylvania http://www.bioethics.upenn.edu/

Princeton Bioethics Forum http://www.princeton.edu/~bioethic/

☞ Formal coursework

Columbia University **http://www.cumc.columbia.edu/dept/gsas/ac_programs/rcr-crse.htm**

Whom to contact:

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  http://ori.hhs.gov/