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SCHOOL OF  
HUMANITIES AND SCIENCES



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# Gendered Innovations

in Science,  
Health & Medicine,  
Engineering, and  
Environment

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What is **Gendered Innovations**?

SEX & GENDER ANALYSIS

Methods

Terms

Checklists

CASE STUDIES

Science

Health & Medicine

Engineering

Environment

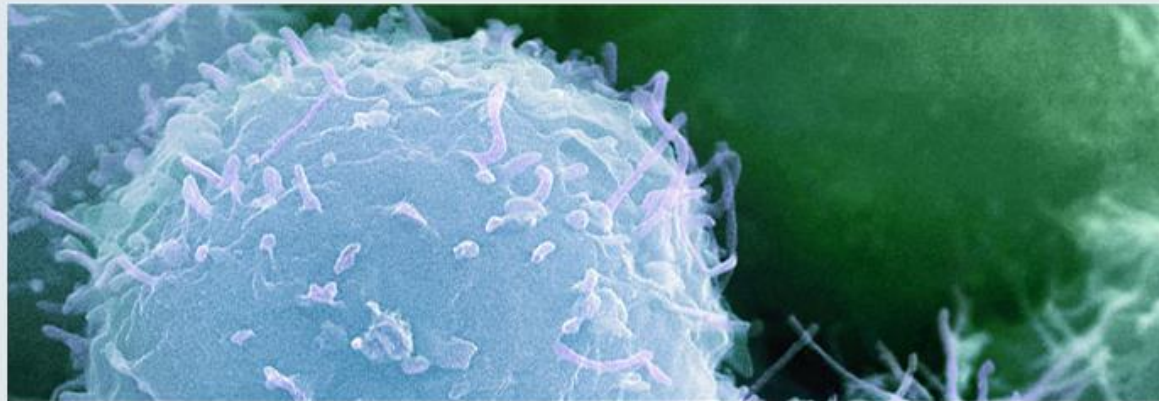
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TRANSFORMATION

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How to cite website



SCIENCE

Sex and Gender Methods for Research

Gendered Innovations



SCIENCE

HEALTH & MEDICINE

ENGINEERING

ENVIRONMENT

FEATURED CASE STUDIES



Stem Cells: Analyzing  
Sex



Osteoporosis  
Research in Men:  
Breaking the Gender  
Paradigm



HIV Microbicides:  
Formulating Research  
Questions & Analyzing  
Academic Disciplines

Why Gendered Innovations?

**“Gendered  
Innovations”  
employs methods of  
sex and gender  
analysis to create  
new knowledge.**

# Gendered Innovations...

- ▶ How can we harness the creative power of sex and gender analysis for innovation and discovery. Does considering gender add a valuable dimension to research? Does it take research in new directions?

[genderedinnovations.stanford.edu](http://genderedinnovations.stanford.edu)



# Definition of Terms

- ▶ **SEX:** biological qualities;  
male/female/intersex
  
- ▶ **GENDER:** cultural attitudes & behaviors;  
masculine ↔ feminine

[genderedinnovations.stanford.edu/terms.html](http://genderedinnovations.stanford.edu/terms.html)

# THREE FIXES

1. FIX THE NUMBERS OF WOMEN
2. FIX THE INSTITUTIONS
3. FIX THE KNOWLEDGE



**FIX THE KNOWLEDGE**

# Doing Research Wrong Costs Lives and Money

- Between 1997 and 2000, 10 drugs were withdrawn from the U.S. market because of life-threatening health effects—8 of those showed greater severity in women (GAO, 2001).

# Doing Research Right Saves Lives and Money

## U.S. WHI Hormone Therapy Trials

- Each \$1 spent, returned \$140
- Health Improvements
  - \* 76,000 fewer cases of cardiovascular disease
  - \* 126,000 fewer breast cancer cases
  - \* 145,000 more quality-adjusted life years
- \* However: 263,000 more osteoporotic fractures

Joshua A. Roth et al., *Annals of Internal Medicine* (2014) 60, 9:594-602.



# Continue to Gendered Innovations

- Machine Translation:  
<http://genderedinnovations.stanford.edu/case-studies/nlp.html>
- Osteoporosis Research in Men:  
<http://genderedinnovations.stanford.edu/case-studies/osteoporosis.html>
- Policy:  
[http://genderedinnovations.stanford.edu/policy\\_landing.html](http://genderedinnovations.stanford.edu/policy_landing.html)