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Director, Gendered Innovations in Science, Health & Medicine, Engineering, and Environment
Can we harness the creative power of sex & gender analysis for discovery?
THREE FIXES

1. FIX THE NUMBERS OF WOMEN
2. FIX THE INSTITUTIONS
3. FIX THE KNOWLEDGE
Sex and Gender Methods for Research

SCIENCE

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Between 1997 and 2000, 10 drugs were withdrawn from the U.S. market because of life-threatening health effects—8 of those showed greater severity in women (GAO, 2001).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

- Each $1 spent returned $140 to US taxpayers in health care savings

- 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

Gendered Innovations

1) develop state-of-the-art Methods of sex and gender analysis

2) provide Case Studies to illustrate how gender analysis leads to discovery and innovation.
Proportion of Research Studies Using Male and/or Female Animals
From published journal articles within specified biomedical subfield, 2009

Adapted from:
Percent of Articles Reporting Sex of Cells Used in Experiments
From published journal articles, 2009

<table>
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<tr>
<th>Journal</th>
<th>MALE</th>
<th>MALE &amp; FEMALE</th>
<th>UNSPECIFIED</th>
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Adapted from:
Software used by US courts was twice as likely to flag black (as opposed to white) defendants as being at a higher risk of committing future crimes.

Men are 5 times more likely than women to be offered ads for high-paying executive jobs.

Solutions


- Carnegie Mellon and Georgetown similar initiatives