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Sex and Gender Methods for Research

**Featured Case Studies**

- **Stem Cells: Analyzing Sex**
- **Osteoporosis Research in Men: Breaking the Gender Paradigm**
- **HIV Microbiomes: Formulating Research Questions & Analyzing Academic Disciplines**

**Why Gendered Innovations?**

"Gendered Innovations" employs methods of sex and gender analysis to create new knowledge.
Sex and gender bias in research

- is expensive in terms of lives and costs.
- limits the excellence of research, and hence the potential benefits to society.
Most research is done in males
SURVEYING SEX BIAS

% of animal articles in 2009

- General Biology
- Immunology
- Neuroscience
- Physiology
- Pharmacology
- Reproduction
- Endocrinology
- Behavioral Physiology
- Behavior
- Zoology

Science (26.3.2010): Between 1997 and 2000, 10 drugs were withdrawn from the U.S. market because of life-threatening health effects—8 of those showed greater severity in women.
Business Case—Public Safety

- Conventional seatbelts do not fit pregnant women properly, and motor vehicle crashes are the leading cause of fetal death related to maternal trauma.

IT'S NOT ENOUGH TO IDENTIFY BIAS

- We need to DESIGN research correctly from the beginning
...states that “it is not enough simply to ‘add in’ a gender component late in a given project’s development. Research must consider gender from the beginning.”

WHO, What is Gender Mainstreaming?
Call for:

1. "gender-based analysis ... in science and technology"
2. the integration of a "gender perspective in science and technology curricula"
Gendered Innovations

...employs sex and gender analysis as a resource to create new knowledge.
Gendered Innovations

1. develops METHODS of sex and gender analysis for research and engineering

2. provides CASE STUDIES as concrete examples of how sex and gender analysis leads to innovation
• Go to website: Genderedinnovations.eu

See “What is Gendered Innovations”
Gendered Innovations

- Add value to research by ensuring excellence and quality in outcomes.

- Add value to society by making research and engineering projects more responsive to social needs.

- Add value to business by developing new ideas, patents, and technology.
Needed: Strategic Plan

- To train current researchers in methods of sex and gender analysis.
- To train the next generation by incorporating sex and gender research into university curricula.