

#### STANFORD

School of Humanities and Sciences



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### Gendered in Science, Health & Medicine, Innovations Engineering, and Environment

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#### What is Gendered Innovations?

SEX	& GENDER ANALYS
Me	thods
Ter	ms

Checklists

#### CASE STUDIES

Science

Health & Medicine

Engineering

Environment

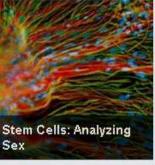
#### POLICY

#### INSTITUTIONAL TRANSFORMATION

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#### FEATURED CASE STUDIES





Research in Men: **Breaking the Gender** Paradigm



Why Gendered Innovations?

"Gendered Innovations" employs methods of sex and gender analysis to create new knowledge.

# What's new?

## Gender Variables in Health Research

#### Other new projects:

- Algorithms
- Inclusive Design
- Robotics
- Synthetic Biology

# Gendered Innovations...

How can we harness the creative power of sex & gender analysis for discovery?

genderedinnovations.stanford.edu

# **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.

# Sex = biological characteristics

## > Sex as a Biological Variable

# Gender = cultural attitudes and behaviors

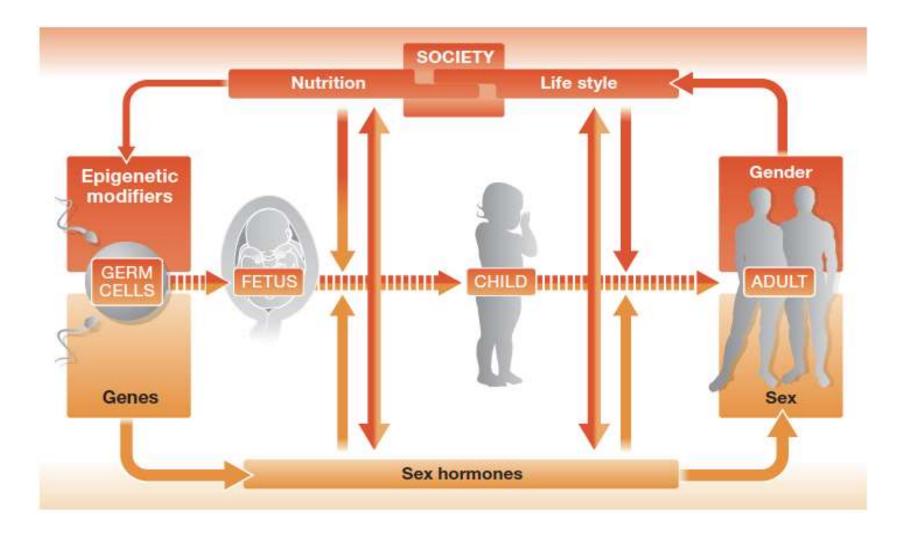
#### Gender Variables in Health Research

# Question

 Can we reduce gender to variables so that results can be manipulated statistically?

## Sex and Gender Interact

Regitz-Zagrosek, V. (2012). Sex and Gender Differences in Health. EMBO Reports, 13 (7): 596-603.



## Gender Variables in Health Research

### Inspiration from Canada

Sex versus Gender–Related Characteristics: Which Predicts Outcome After Acute Coronary Syndrome in the Young? By Pelletier, R., Khan, N. A., Cox, J., Daskalopoulou, S. S., Eisenberg, M. J., Bacon, S. L., ... & Norris, C. M. (2016). *Journal of the American College of Cardiology*, *67* (2), 127–135.

## Gender Variables in Health Research

 Provides an instrument for measuring gender variables in health

# Seven Relevant Gender Factors

- > household primary earner
- > personal income
- > number of hours per week spent doing housework
- status of primary person responsible for doing housework
- > level of stress at home
- > Bem Sex Role Inventory masculinity score
- Bem Sex Role Inventory femininity score

# Acute Coronary Syndrome (aged 55 and younger)

- No sex difference
- Gender matters. Patients with a higher "femininity" score—regardless whether they were a man or a woman—were more likely to experience a recurrence of ACS.

# No longer valid

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# **Stanford Study**

### Gender Variables in Health Research

# Innovative Approaches

1. To move beyond binary notions of "masculinity" and "femininity."

2. To capture three dimensions of gender: Norms Identity Relations

# Proposed Gender-Related Variables

#### Norms

- Responsibility for Caregiving
- Time use
- Occupation

#### Identity

- Competitive
- Independent
- Risk-taking
- Communal
- *Expressive*

#### Relations

- Social support
- Perceived discrimination
- Quality of family relationships

# Hoping for results in June

Londa Schiebinger, Mathias Wullum Nielsen, Claudette Brooks, Mark R. Cullen, Gillian Einstein, John P.A. Ioannidis, Ineke Klinge, Hannah LeBlanc, Torsten B. Neilands, Hee Young Paik, Diana Peragine, Louise Pilote, Judith Prochaska, Stephen Ristvedt, Kierstyn Smith, YoonJu Song, Marcia L. Stefanick

# Join the Gendered Innovations listserv

- On the Gendered Innovations website, sign up at "Contact Us."
- http://genderedinnovations.stanford.edu/con tact-us.html