

VII. STANDING COMMITTEE

A. Academic and Student Affairs Committee

Report on the Center for Translational Medicine in Women

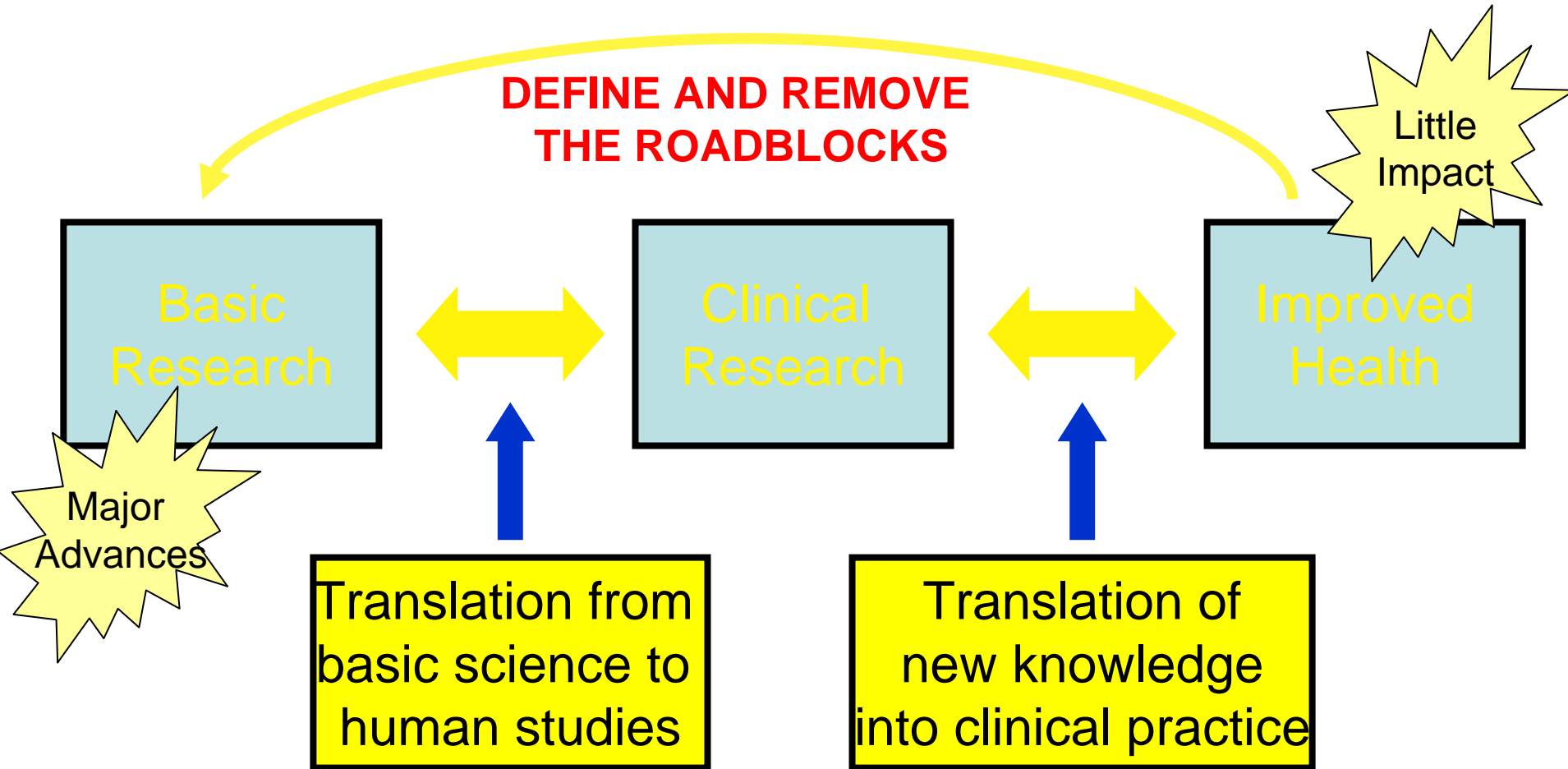
See Attachment.

# What is the Clinical and Translational Science Award?

- New NIH Roadmap Grant that replaces and integrates 4 previous UW grants
  - At UW: GCRC (research infrastructure) plus 3 training grants: Roadmap K12, T32, K30 (pre- & post-doc training)
- Comprehensive award intended to support clinical and translational science as a discipline
- “Transform” translational research, training, and career development
- Develop departments, institutes, or centers
- NIH’s goal: national network of 60 CTSAs by 2012

# Why CTSA?

## Accelerate the Health Science Pipeline



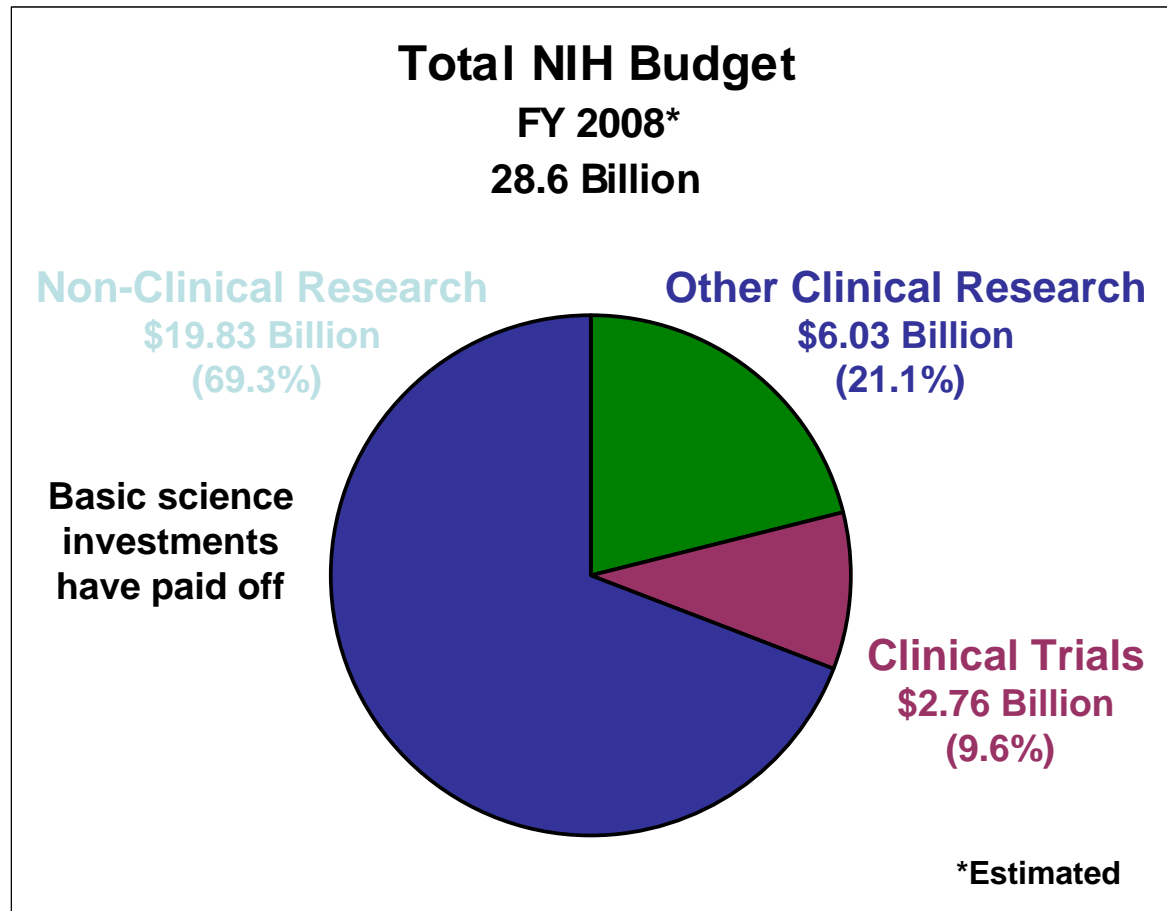
Adapted from Sung et al. (2003) JAMA, 289, 1278-89.

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# NIH Roadmap Seed Funding to Stimulate Significant Change

Define and Remove Roadblocks

Locally  
Regionally  
Nationally



<http://officeofbudget.od.nih.gov/FY07/Overview.pdf>

<http://www.nih.gov/news/fundingresearchareas.htm>

# Institute of Translational Health Sciences (ITHS)

- UW award: \$62 million over 5 years
- Current Partners: UW, CHRMC, FHCRC
- UW participants: Schools of Business, Dentistry, Law, Medicine, Nursing, Pharmacy, and Public Health
- Current Collaborators: GHCHS, VM, WWAMI clinical and research networks, AI/AN populations
- Over 180 faculty at all sites involved in planning grant (2006-2007)
- Structure based on surveys, focus groups, town halls; over 2200 faculty and community members contacted for input
- UW PI and co-PI's at CHRMC/FHCRC, Leadership group of 30 faculty meet bi-weekly

# Translational Research in Our Environment

Top 4 barriers to conducting translational/clinical research:

1. Career development
2. Infrastructure needs
3. Regulatory issues
4. Identifying collaborators

Top 4 barriers to career development:

1. Funding
2. Time constraints
3. Lack of appreciation
4. Clinical responsibilities

# ITHS as a “Collaboratory”

The ITHS is a dynamic and interactive organization with a mission to create, enable, and sustain innovative translational research and research collaborations across disciplines and professions which will accelerate the development of concepts and tangible products that will improve human health.

## CORE PURPOSE:

- Foster innovative research and research partnerships
- Create and sustain research resources
- Ensure a translational research pipeline through robust education and career development programs

*Develop an infrastructure that in itself can act as a laboratory for original research*

# ITHS Components and Programs

Leverage existing programs

## Innovative Research and Research Partnerships

Community Outreach  
and Research  
Translation Core

Novel Methods Core

Center for Scientific  
Review

Evaluation Research  
Core

Continuous Process  
Improvement  
Program

## Research Resources

Portal Program

Clinical Research  
Center Network

Translational  
Technologies and  
Resources Core

Center for Biomedical  
Statistics

Biomedical  
Informatics Core

Regulatory Support  
and Bioethics Core

## Education and Career Development

Education Research  
Core

Mentoring Programs

*Examples of Core  
Education Programs:*

- Technology application seminars
- Training in the conduct of research (GCP)
- Biostatistical training



# Innovative Research & Research Partnerships

## *Community Outreach & Research Translation*

### CORE WORK

- Build or expand 3 community-based clinical research networks (Group Health, WWAMI, American Indian/Alaska Native)
- Foster the development of basic/translational research teams within WWAMI
- Provide community research networks with IT toolkits to become full participants in research (develop exportable tools)
- Launch virtual data warehousing in selected areas to allow population based research links
- Facilitate ITHS membership research interactions with developed networks

### CORE RESEARCH

- Research on how to develop community populations as research partners
- Research driven by community partners (pilot projects)
- Develop educational programs for training community based researchers.

# Innovative Research & Research Partnerships

## *Novel Methods Core*

### CORE WORK

- Create and maintain public/private partnerships
  - Targeted symposia leading to new collaborations and funding
  - Searchable collaborator database
- Facilitate novel therapeutic development
  - Pre-clinical consulting
  - “IND” type project management
  - Ignition awards
  - Match with external funding
  - Entrepreneurial Law Clinic
  - Entrepreneur Scholarships

Institute of Translational Health Sciences

## Utilizing Saliva in Translational Research

*A forum for collaboration in new areas of health research*

Join basic and clinical researchers at a symposium linking advances in the saliva proteome and basic research in oral biology with clinical applications. Speakers will highlight initiatives in non-invasive diagnostics and other approaches to utilizing saliva to improve human health.

*Panels will be followed by discussion.*



September 11, 2007 ✧ 9am - 5pm  
UW Health Sciences ✧ Turner Auditorium (D-209)

Over 80 Attendees: Academics, Industry, Clinical Practice  
Fields represented: Anesthesiology, Biostatistics, Brain Injury Research, Commercialization of Technology, Dental Hygiene, Dental Research, Early Detection of Cancer, Epidemiology, Infectious Disease, Microbiology-Microfluidics, Molecular Biology, Obesity and Sleep, Occupational and Environmental Health, Oral Biology, Oral Health-Community, Sleep Research, Technology Transfer, Virology, Wound Repair

# Innovative Research & Research Partnerships

*Center for Scientific Review*

## CORE WORK

➤ Over 400K/year in pilot funds and programs

Technology Access

Small Projects

Ignition/Drug and Device

Clinical Research Center

Community Partnerships

➤ Training in grant review for junior investigators and community researchers

➤ Matching funds for other institutional pilot projects to enhance translational research

**Currently taking applications**



[Download ITHS Technology Access Grant Application](#)

<http://www.nwiths.org/Proposals.htm>

# Innovative Research & Research Partnerships

## *Evaluation Research Core*

### CORE WORK

- Develop metrics by which to assess core and program productivity
- Evaluation & tracking of cores and programs to ensure productivity & quality of ITHS functions
- Make recommendations based on metrics as to what programs should be expanded or discontinued
  - Financial flexibility is a hallmark of the grant
- Monitor and evaluate the continuous process improvement program that supports the ITHS

### CORE RESEARCH

- Research pertaining to the development of successful collaboration networks
- Research on academic career trajectories and how research focus impacts career
- Research on academic process improvement
- Define methods to assess impact of established structures

# Research Resources

ITHS  
Develops resources  
solely or in  
partnership

Clinical  
Research  
Centers

Translational  
Technologies  
and Resources  
Core

Center for  
Biomedical  
Statistics

Biomedical  
Informatics  
Core

Regulatory  
and  
Bioethics Core

Research networks  
Qualified nurses  
GCP compliant  
Regulatory oversight  
Provide clinical  
research tools;  
database,  
recruitment

Enhance utilization of  
existing resources  
cGMP core network  
Nutrition research lab  
Incubate new cores:  
Human genomics  
QA assistance on  
existing cores

Seed money with  
other partners to  
start a biostatistical  
consult service both  
pre and post award  
service

Support ITHS  
database/eval  
Methods to link  
clinical/research  
data  
Provide preferred IT  
research tools  
Facilitate access to  
tech core data

Research  
coordinator support  
Research staff & PI  
education  
Educational audits  
Data, safety  
monitoring boards  
Research ethics  
consults

# Education and Career Development

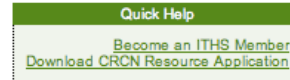
- T32/TL1 Pre-Doctoral Training
- K12/KL2 Post-Doctoral Training
- Master's Tuition Support Program
- Multi-disciplinary mentoring committee program
- Pair junior or transitioning investigators with mentor(s)
- Ongoing translational research education
  - Clearing house for ongoing education
  - Summer short courses
  - Courses within each core and program
- Institutional T and K program interactions

# Membership has its Benefits

- Eligible for Pilot Projects
- Open access to all educational programs
- Priority ITHS core usage
- Access to pre-award biostatistical consults
- Access to research networks
- Access to ITHS “laboratory”
- Institutional voice for translational and clinical research
- Active participation in defining needed resources
- Career development programs

Category	Requirements	Contributions
<b>Member</b>	•Developed <u>research program</u> focused on some aspect of translational health science	•Participate as a mentor, assist with education or review programs, or provide a venue for scholars to participate in research.
<b>Scholar</b>	•Involved in or interested in being involved in research focused on translational medicine •Commitment to develop a career in translational health science	•Participate in career development activities •Work with a mentoring committee

# www.iths.org



- [Home](#)
- [About ITHS](#)
- [Innovative Partnerships](#)
- [Research Resources](#)
- [Education](#)
- [Pilot Funding](#)
- [Contact Us](#)



The Institute of Translational Health Science (ITHS) is a multi- and inter-disciplinary "collaboratory" funded by the National Institutes of Health to advance translational research. Translational research means taking medical discoveries from the laboratory into the clinic and out into the community. The goal of the ITHS is focused on making a positive impact on human health locally and globally. To achieve this goal requires collaboration between many groups; academia, industry, non profit agencies, government, and most importantly the community. Any researcher or individual interested in translational research from any group is invited to become a member of the ITHS.

The ITHS is a dynamic and interactive organization with a mission to create, enable, and sustain innovative translational research and research collaborations across disciplines and professions which will accelerate the development of concepts and tangible products that will improve human health.

Our aims are to:

- Foster innovative research and research partnerships
- Create and sustain research resources
- Ensure a translational research pipeline through robust education and career development programs

Our programs and resources fall into one of 3 categories:

1. Innovative Research Partnerships: programs to develop partnerships and research links with many types of communities as well as