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

Basic Research

Clinical Research

Improved Health

Translation from basic science to human studies

Translation of new knowledge into clinical practice

DEFINE AND REMOVE THE ROADBLOCKS

Little Impact

Major Advances

Adapted from Sung et al. (2003) JAMA, 289, 1278-89.
Copyright © (2003) American Medical Association. All Rights reserved.
NIH Roadmap Seed Funding to Stimulate Significant Change

Define and Remove Roadblocks
Locally Regionally Nationally

Total NIH Budget
FY 2008*
28.6 Billion

Non-Clinical Research
$19.83 Billion
(69.3%)

Other Clinical Research
$6.03 Billion
(21.1%)

Clinical Trials
$2.76 Billion
(9.6%)

Basic science investments have paid off

*Estimated

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

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

- **Translational Technologies and Resources Core**
  - Enhance utilization of existing resources
  - cGMP core network
  - Nutrition research lab
  - Incubate new cores: Human genomics
  - QA assistance on existing cores

- **Center for Biomedical Statistics**
  - Seed money with other partners to start a biostatistical consult service both pre and post award service

- **Biomedical Informatics Core**
  - Support ITHS database/eval
  - Methods to link clinical/research data
  - Provide preferred IT research tools
  - Facilitate access to tech core data

- **Regulatory and Bioethics Core**
  - 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

<table>
<thead>
<tr>
<th>Category</th>
<th>Requirements</th>
<th>Contributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member</td>
<td>• Developed research program focused on some aspect of translational health science</td>
<td>• Participate as a mentor, assist with education or review programs, or provide a venue for scholars to participate in research.</td>
</tr>
<tr>
<td>Scholar</td>
<td>• Involved in or interested in being involved in research focused on translational medicine  • Commitment to develop a career in translational health science</td>
<td>• Participate in career development activities  • Work with a mentoring committee</td>
</tr>
</tbody>
</table>
Welcome to
The Institute of Translational Health Sciences

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