

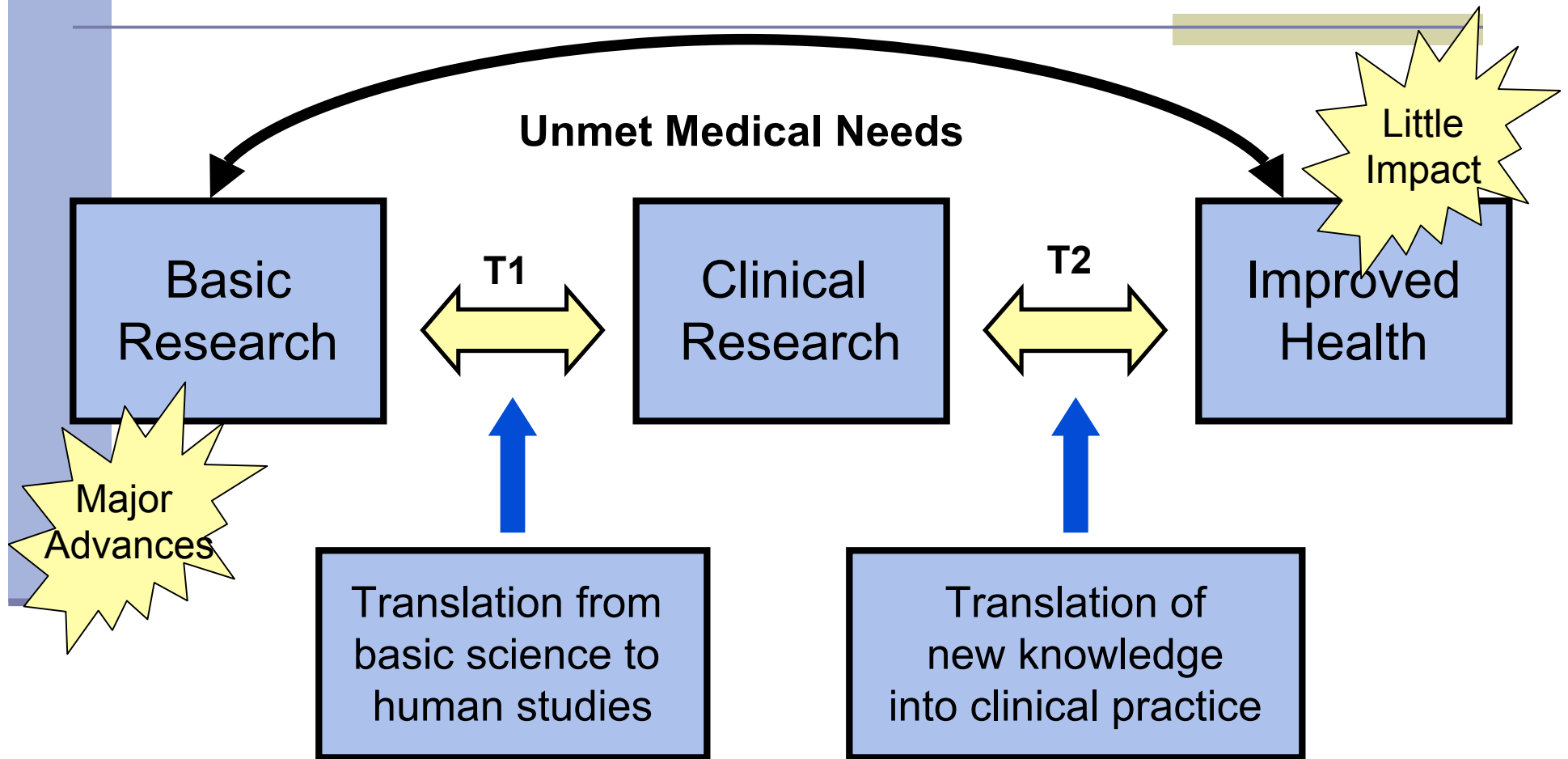


# **Institute of Translational Health Sciences**

## **“An overview”**

Kim Folger Bruce, PhD  
Director of Research Partnerships

# Translational Research



Ref: S.H.Woolf, (2008)

JAMA, 299, 211-213

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

Copyright © (2003) American Medical Association. All Rights reserved.

# Institute of Translational Health Sciences

---

- ITHS is the name for the regional interdisciplinary consortium funded through the NIH-NCRR Clinical Translational Science Award (CTSA) to the University of Washington
- ITHS provides an “academic home” and integrated resources to:
  - Advance clinical and translational science;
  - Create and nurture a cadre of well-trained clinical investigators;
  - Speed translation of discoveries into clinical practice (*i.e. bench to bedside*);
  - Create an incubator for novel ideas

# ITHS Components and Programs

Integration of key programs

[www.iths.org](http://www.iths.org)

## 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*

# Leadership and Administration

---

- **Core:** Leadership and Administration

- **Function:** Provide a central portal to institute services and membership. <http://iths.org/AboutITHS/Contacts.aspx>  
ITHS administration will provide financial and operational oversight and lead the business planning for services and programs. Coordinate community outreach and mentorship programs.

- PI: Nora Disis, University of Washington

- Co-PI: Bonnie Ramsey, Children's Hospital and Regional Medical Center

- Co-PI: Mac Cheever, Fred Hutchinson Cancer Research Center

# ITHS Access/Portal program

<http://iths.org/AboutITHS/Contacts.aspx>

Portal Program



In person



On line

Portal Managers

General questions about translational and clinical research

Catalogue of institutional resources

Catalogue of ITHS resources

Collaboration connections

Funding

Educational programs/mentoring

Participation

# Center for Scientific Review

---

- **Core:** Center for Scientific Review (CSR)  
<http://iths.org/PilotFunding/>
- **Function:** Manage a portfolio of pilot grants to support innovative research and integrate technologies into existing studies.
- **Director:**  
Cathryn Booth-LaForce, PhD, FAPS, RYT  
University of Washington  
[ibcb@u.washington.edu](mailto:ibcb@u.washington.edu)

# Center for Scientific Review ITHS Funding

---

- [Ignition Awards](#)
- [Technology Access Grants](#)
- [Small Pilot Project Grant](#)
- [Special WWAMI Awards](#)
- [Pediatric Small Grant](#)
- [ITHS/Coulter summer fellowships](#)

<http://www.iths.org/PilotFunding/>



# Biomedical Informatics

---

- **Core:** Biomedical Informatics (BMI)
- **Function:** Support data management tools and facilitate open access to research data derived from the multiple technology cores within the ITHS.
- **Director:**  
Peter Tarczy-Hornoch MD,  
Department of Medical Education and Biomedical Informatics  
[pth@u.washington.edu](mailto:pth@u.washington.edu)

# Center for Biomedical Statistics

---

- **Core:** Center for Biomedical Statistics (CBS)
- **Function:** CBS will provide study design and biostatistics support to ITHS members, as well as education on statistical design and analysis options for proposed studies, including the preparation of grant proposals.
- **Director:**  
[Patrick Heagerty, Ph.D.](mailto:heagerty@u.washington.edu)  
Professor  
206-616-2720  
[heagerty@u.washington.edu](mailto:heagerty@u.washington.edu)

If you have any questions about CBS services or activities, please feel free to send email to:

[MedStat@u.washington.edu](mailto:MedStat@u.washington.edu)

# Regulatory Support and Bioethics

- **Core:** Regulatory Support and Bioethics

- **Function:** The Regulatory Support and Bioethics Core is working to promote ethical translational collaborative research within the ITHS. The RSB provides education, training, consultation and collaboration.

- **Directors:**

Ann Melvin, MD, MPH. [ann.melvin@seattlechildrens.org](mailto:ann.melvin@seattlechildrens.org) Office: 206-987-2535  
Director, Regulatory support core, Pediatrics - Infectious Diseases

Kelly Fryer-Edwards, PhD.

Email: [edwards@u.washington.edu](mailto:edwards@u.washington.edu)

Office: 206-221-6622 Departments of Medical History and Ethics

Ben Wilfond, MD

Email: [benjamin.wilfond@seattlechildrens.org](mailto:benjamin.wilfond@seattlechildrens.org)

Office: 884-8355 Treuman Katz Center for Pediatric Bioethics

# Clinical Research Center Network (CRCN)

- **Core:** Clinical Research Center Network (CRCN)
- **Function:** Establish an integrated efficient network of clinical research centers from existing units across multiple ITHS sites (formerly known as GCRC).
- **Contacts:**
  - UW CRC, Timothy Ehling  
[tehling@u.washington.edu](mailto:tehling@u.washington.edu)(206) 598-8933
  - CHRMC Pediatric CRC, Gloria Venegas  
[gloria.venegas@seattlechildrens.org](mailto:gloria.venegas@seattlechildrens.org)(206) 987-1973
  - Benaroya Research Institute CRC Carla Greenbaum  
[cjgreen@benaroyaresearch.org](mailto:cjgreen@benaroyaresearch.org)(206) 515-5232
  - FHCRC CRC, Martin "Mac" Cheever M.D.  
[mcheever@u.washington.edu](mailto:mcheever@u.washington.edu)(206) 288-6370
  - Regional Clinical Dental Research Center Marilyn L. Rothen  
[rothen@u.washington.edu](mailto:rothen@u.washington.edu)(206) 685-8132

# Community Outreach and Research Translation

- **Core:** Community Outreach and Research Translation Core (CORT)
- **Function:** Create diverse collaborative community-based research networks. CORT integrates the Group Health Center for Health Studies (GH/CHS) into the ITHS. GH/CHS is the research arm of a statewide group practice delivery system for diverse American Indian and Alaska Native (AI/AN) communities; and organizations in the “WWAMI” clinical practice and educational network.
- **Co-Directors**
  - [Eric B. Larson, MD MPH](#)  
Executive Director Group Health Center for Health Studies
  - [Dedra S. Buchwald, MD](#)  
Professor of Medicine  
UW Division of General Internal Medicine
  - [Laura-Mae Baldwin, MD MPH](#)  
Adjunct Professor, Family Medicine  
UW Department of Health Services

# Research Education Core

---

- **Core:** Research Education Core
- **Function:** Provide formal (degree-granting) and informal training programs to facilitate the development and evolution of research skills in every phase of a translational investigator's career.
- **Directors:**
  - [Jeffrey L. Probstfield, M.D.](#)  
Professor of Medicine, Department of Medicine/Cardiology  
University of Washington  
[jeffprob@u.washington.edu](mailto:jeffprob@u.washington.edu)
  - [Pamela Mitchell, PhD, CNRN, FAAN](#)  
Director, Center for Health Sciences Interprofessional Education  
Biobehavioral Nursing and Health Systems  
[pmitch@u.washington.edu](mailto:pmitch@u.washington.edu)

# Evaluation Research Core

- **Core:** Evaluation Research Core (ERC)
- **Function:** Use qualitative & quantitative methods to assist each core & overall ITHS meet stated goals & needs; identify barriers to and facilitators of clinical and translational research; and function as an engine for research on the translational research process
- **Director & Co-directors:**
  - Fred Wolf, PhD  
Professor and Chair, Medical Education & Biomedical Informatics
  - Doug Brock, PhD  
Associate Professor, Medical Education & Biomedical Informatics
  - Lynne Robins, PhD  
Professor, Medical Education & Biomedical Informatics

Contact [ithserc@u.washington.edu](mailto:ithserc@u.washington.edu)

# Translational Technologies and Resources

---

- **Core:** Translational Technologies and Resources Core (TTRC)
- **Function:** Enhance access and utilization of existing technologies and resources across the partner institutions, and foster the development of new technologies and resources.
- **Websites:** for list of resources and contacts  
[www.iths.org/ResearchResources/](http://www.iths.org/ResearchResources/)  
[www.iths.org/ResearchResources/TTRC/OtherResources.aspx](http://www.iths.org/ResearchResources/TTRC/OtherResources.aspx)
- **Director:**  
Roger Bumgarner, PhD  
Associate Professor Department of Microbiology  
Campus Box: 358070  
Email: [rogerb@u.washington.edu](mailto:rogerb@u.washington.edu)  
Phone: (206) 732-6137



# Center for Clinical Genomics Services

- Assistance with experimental design of the genetic component of clinical studies
- Development and writing human subjects protocols
- Design of data capture forms and questionnaires Collection and tracking of phenotypic information
- Logistical coordination among regulatory boards, clinical centers and research programs
- Identification of suitable technologies for processing and analyzing genetic material Identification of resources/colleagues UWMC/CHRCM/FHCRC who can make available such technologies DNA extraction from a variety of tissues
- Tissue banking and long-term storage
- Support for management of clinical, sample storage and genetic analysis data

Contact: Michael J. Bamshad, MD

[mbamshad@u.washington.edu](mailto:mbamshad@u.washington.edu) (206) 221-4131

# Center for Array Technologies

---

## Services:

- Probe labeling for RNA Expression and DNA Genotyping samples
- hybridization, staining, washing, and scanning of the arrays
- feature extraction from raw array image data.
- RNA quality control service

Contact: Roger Bumgarner [rrogerb@u.washington.edu](mailto:rrogerb@u.washington.edu)  
(206) 732-6137

# Translational Technologies and Resources

## Gene and Cell Therapy Services:

- **Comprehensive quality program for therapeutic product development from benchtop to bedside, using current Good Manufacturing**
  - **Practices (cGMP)**
  - **Biosafety Level 2 and 3**
  - **Experienced research staff and training for investigator staff**
  - **Regulatory oversight and assistance**
- **Product Development Consult Service to help you develop your own clinical product**
  - **Evaluation of pre-clinical data**
  - **Developing a management plan and timeline for product development**
  - **Assistance finding cGMP-compliant vendors for reagents and disposables**
  - **Assistance in developing FDA-compliant manufacturing techniques**
- **On-site visits to help you set up your own cGMP-compliant lab**
- **Reduced rates for apheresis**
- **Assistance with IND applications including qualification scale-up runs**
- **Catherine Lindgren [lindgren@u.washington.edu](mailto:lindgren@u.washington.edu) (206) 598-7038**

# Translational Technologies and Resources

---

## **Nutrition Research and Body Composition Bionergetics and Exercise Testing Labs Services:**

- Assistance with [protocol development](#)
- Nutrition Studies
  - Development of protocol-specific research diets
  - Nutrition Assessment
  - Dietary Intake Analysis
  - Basic Data Management
  - Screening, ongoing evaluation and counseling
  - Staffed Research Kitchen

Contact: Holly Callahan MS, RD,  
[hcal@u.washington.edu](mailto:hcal@u.washington.edu) (206) 598-4529

# Development of Novel Clinical and Translational Methodologies

---

- **Core:** Development of Novel Clinical and Translational Methodologies Core (DNCTM)
- **Function:** Assemble a collaborative network of experts and resources from both academic and biomedical industry partners needed to implement effective preclinical programs. Create and maintain public/private partnerships that enable and support translational research within the ITHS institutions and broader research community
- **Contacts:**  
Lynn M. Rose, PhD  
[lynn.rose@seattlechildrens.org](mailto:lynn.rose@seattlechildrens.org) (206) 884-7540  
Kim Folger Bruce, PhD  
[kim.bruce@seattlechildrens.org](mailto:kim.bruce@seattlechildrens.org) (206) 884-7533

# Benefits of membership

---

- Eligible to apply for all Pilot Projects and other ITHS funding
- Access to all educational programs for you or your staff at minimal or no cost
- Priority usage of ITHS resources
- Access to pre-award biostatistical consults
- Access to research networks
- Access to the ITHS "laboratory"; using resources that the ITHS develops to conduct your own independent research
- You will have a voice to change or modify translational and clinical research systems both locally and nationally
- You will be an active participant in defining and creating resources needed to help your research program
- You will have access to career development programs and assistance
- You will be able to more easily find research partners
- You can help us further develop the aims of the Institute