

CLINICAL & TRANSLATIONAL SCIENCE AWARDS

***Transforming Biomedical Research
To Improve the Health of Our Nation's People***

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**ACPM
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Re-engineering Clinical Research

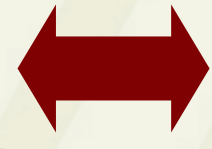
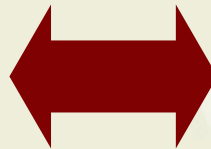
Interdisciplinary Research
Innovator Award

Public-Private Partnerships

Bench

Bedside

Practice



Building Blocks and Pathways

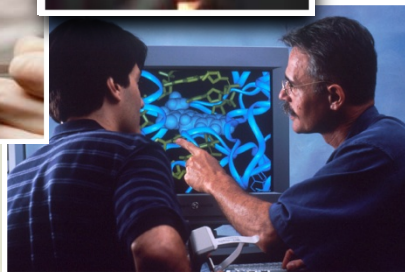
- Molecular Libraries
- Bioinformatics
- Computational Biology
- Nanomedicine

**Translational
Research
Initiatives**

- Integrated Research Networks
- Clinical Research Informatics
- NIH Clinical Research Associates
- Clinical Outcomes

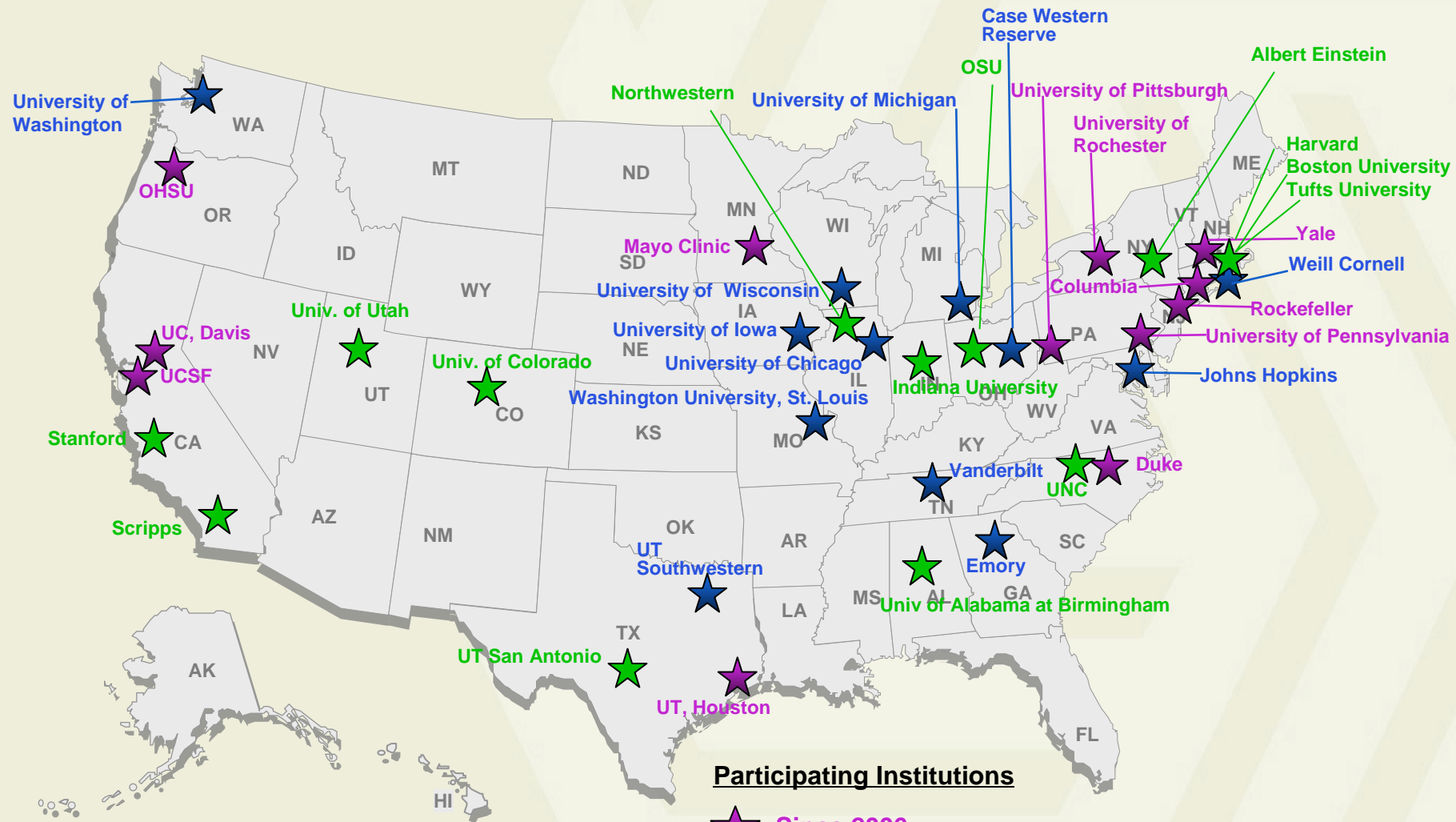
Cross-cutting: Harmonization, Training

NIH Clinical and Translational Science Awards ... and Beyond



- **Catalyze change - break silos, break barriers, and break conventions**
- **Advance the new intellectual discipline of clinical and translational science**
- **Integrate resources and training**
- **Identify and remove impediments to clinical and translational science**

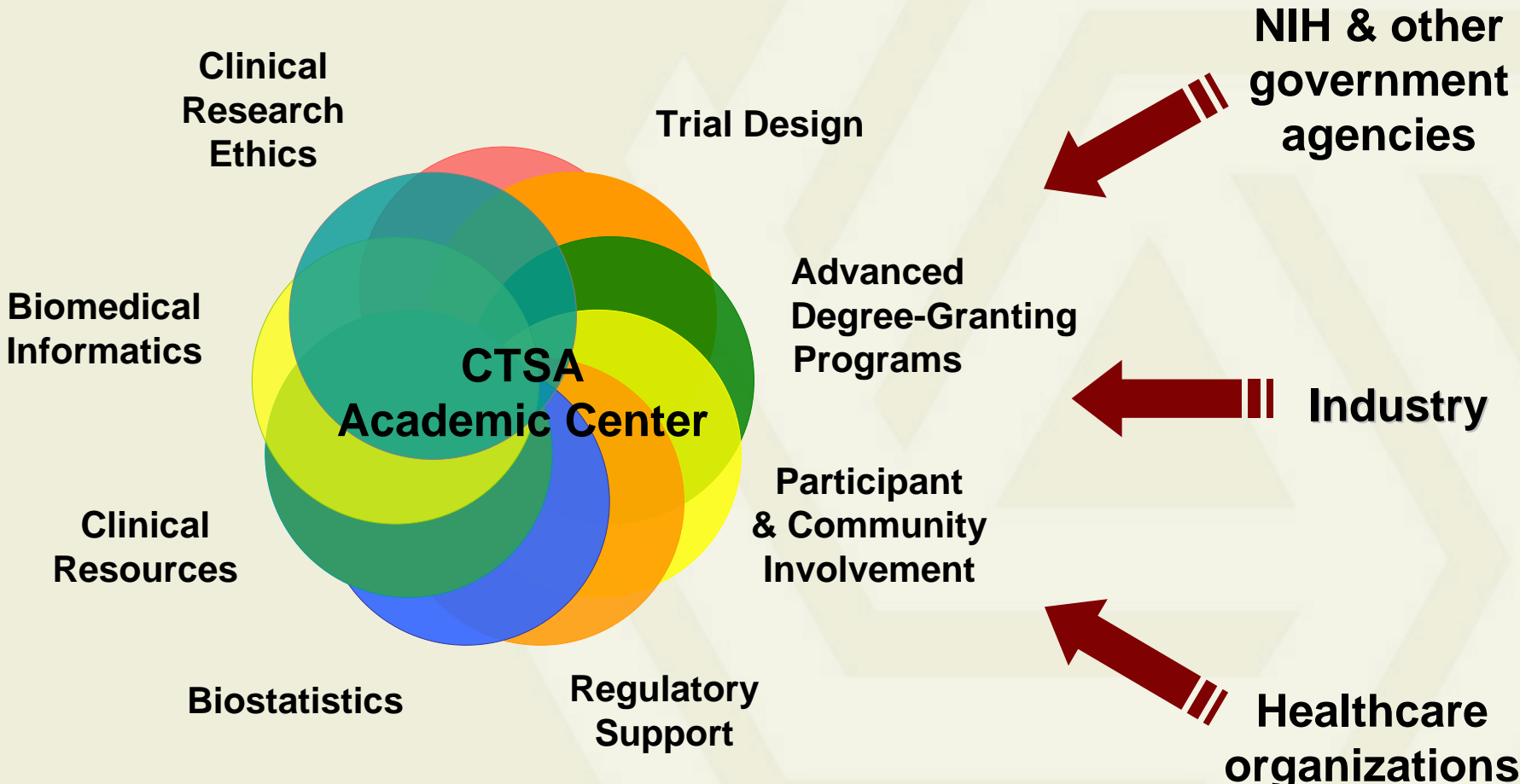
Building a National CTSA Consortium



Participating Institutions

- ★ Since 2006
- ★ Since 2007
- ★ Since 2008

Key Functions



CTSA Strategic Planning

Partial list of Partners:

- **CDC - Prevention Research Centers**
- **HRSA - Health Disparity Collaborative**
- **HMO Research Network**
- **Practice-Based Research Networks**
- **State and local health departments**
- **Multiple local organizations**

CTSA Strategic Planning

Goal One: *Enhancing National Clinical and Translational Research Capability*

- clinical research management
- research infrastructure
- phenotyping - human and preclinical models

Goal Two: *Enhancing the Training and Career Development of Clinical and Translational Scientists*

CTSA Strategic Planning

Goal Three: *Enhancing Consortium-Wide Collaborations*

- National Resource Inventory
- Data Sharing Network
- Social Networking Initiative

Goal Four: *Enhancing the Health of Our Communities and the Nation*

- National Model for Community Engagement
- Inform Public Health Policy Through Research

Recent CTSA Community Engagement Activities

Four workgroups:

- **Community-Based Academic and Practice partnership**
- **Education**
- **Resource Development**
- **Workshops**
 - **May 9, 2008: “Accelerating the Dissemination and Translation of Clinical Research into Practice”**
 - **May 14-15, 2009 : *“Improving Health WITH Communities: The Role of Community Engagement in Clinical and Translational Research”***
 - **5 Regional Workshops 2008 Jointly Sponsored by NCRR and APTR/CDC**

Recent CTSA Community Engagement Activities

Supplemental Projects

Consultation Service

- **Provide consultation for each CTSA to strengthen community practice links**

PRIMER

- **Practice network research infrastructure needs among CTSA**

The Duke Center for Community Research (DCCR)

Moving the Community from Subject to Collaborative Partner

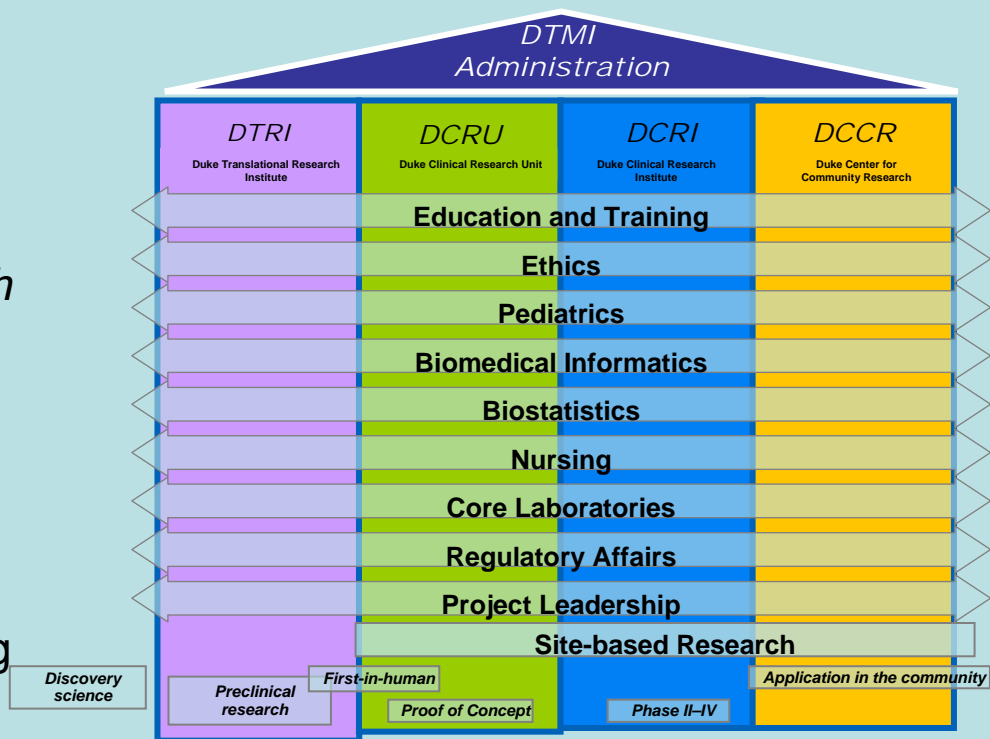
■ **Goal:**

Improve the health of the community through:

- *Community engagement in research*
- *Integration of practices into research structure*
- *Linking communities, practices, researchers*

■ **Components:**

1. Community Research Liaison Center
2. Community Health Research Training Center
3. Electronic Health Record
4. Demonstration Projects





1. Community Research Liaison Center

- **The connection between Duke and local communities, practices, and organizations**

- A virtual library:



- For researchers to learn about communities
- For community groups to learn about themselves
- For practices to identify opportunities for improvement
- Outreach and training to assist communities with data and to connect communities with researchers



Status: 30 grants funded, submitted or under development

- 14 community-wide health committees staffed

2. Community Health Research Training Center

- Train and prepare researchers and learners to work successfully with communities
 - **Electronic training modules**
 - **On-site training programs**

Status: required training for clinicians and researchers begun with online modules and classes (2500 trained to date)

www.aamc.org/mededportal

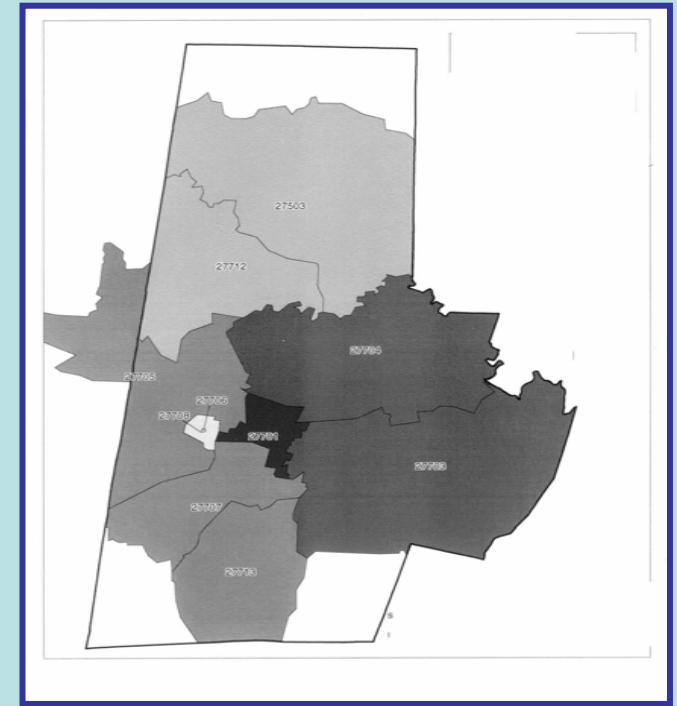


go to “Find Resources”; enter keyword: community engaged research

3. Electronic Health Record

- Covers citizens of Durham County
- Captures data for Durham County
- Develop analytic techniques
 - Data capture and co-variates
 - Meshing advanced laboratory data with long term outcomes
- Produce improvement of community health status

Status: Implemented in Duke practices, data analyses underway with community partners



4. Demonstration Projects

- Pilot projects to see if teams of community groups, clinicians, and researchers can improve health
- \$ 1 million for 1 year for planning
- RFA for pilot projects released Summer 2008.

Requirements:

- Input, support, and commitment from community
- Well-integrated design for prevention/care;
- Budget that demonstrates effective use of resources;
- Evaluation plan that establishes measurable markers

Project Status

- Number of Proposals: 22
- Number of Team Members: 413
 - **Duke affiliated: 237 (57%)**
 - **Durham: 176 (43%)**
- Number of Community Agencies, Organizations, and Businesses Represented: 90

Projects:

- | | |
|----------------------------------|-----------------------------|
| ▪ Adolescent Health | ▪ Obesity (0-5) |
| ▪ Asthma | ▪ Obesity (Latinos) |
| ▪ Breast Cancer | ▪ Obesity and Wellness |
| ▪ Cancer | ▪ Organ Donation |
| ▪ Cardiovascular Disease | ▪ Pain Management |
| ▪ Chronic Kidney Disease | ▪ Prostate Cancer |
| ▪ Diabetes | ▪ Seniors (Aging in Place) |
| ▪ Diabetes | ▪ Seniors (Fall Prevention) |
| ▪ HIV/AIDS | ▪ Substance Abuse |
| ▪ Insurance for Small Businesses | ▪ Substance Abuse (Youth) |
| ▪ Maternal/child health | ▪ Youth Violence |

More information:

- CTSA: <http://www.ctsawiki.org/wiki>
- Community Engagement Training Modules: www.aamc.org/mededportal
 - go to “Find Resources”; enter keyword: community engaged research
- Durham Projects: <http://forms.dukehealth.org/dccr/dtmi.nsf/rfp>
- Michener JL, Yaggy S, Lyn M, Warburton S, Champagne M, Black MA, Cuffe M, Califf R, Gilliss C, Williams RS, Dzau VJ. *Improving the Health of the Community: Duke’s Experience with Community Engagement. Acad Med. 2008; 83:408-413*
- Principles of Community Engagement CDC/ATSDR Committee on Community Engagement Centers for Disease Control and Prevention Public www.cdc.gov/phppo/pce



New Challenges Require New Solutions...



...Solutions that Combine Innovation
with Community Engagement