

# An Integrated, Multi-institutional, Bi-state, Clinical and Translational Science Initiative



***Delaware Valley Institute for  
Clinical and Translational Science***

# Mission Statement (Abbreviated)

- **The mission of DVICTS is to establish clinical and translational science as the academic discipline that drives new research discoveries into clinical practice within its affiliated institutions, in order to improve the health of the community in the Delaware Valley.**
- **DVICTS was created to enable the distinct academic and clinical missions of the individual institutions to come together to develop the novel approaches in clinical and translational science that are needed to take biomedical discoveries from the basic sciences through to clinical practice, and also to have clinical observations inform basic science research via a seamless two-way highway linking the bench and the bedside.**

# Central Themes

- **Trans-institutional integration across the four core partner institutions and their peripheral institutions and components.**
- **Educational spectrum from undergraduate work through professional schools and on to post-graduate training and residency and CME.**
- **Unique “virtual laboratory” offered by the State of Delaware to assess the impact of DVICTS on medical care.**

# Specific Aims

## 1. Train the next generation of clinical and translational health-related professionals.

*This will involve the creation of novel, interdisciplinary, interprofessional team-based educational programs spanning the entire health-care training spectrum and integrating training in translational methodology into curricula at all levels, from the early years of pre-baccalaureate education through the professional schools and beyond, to residency and postdoctoral training.*

## 2. Develop new methodologies to translate research discoveries into community health settings.

*A particular focus of DVICTS will be its emphasis on the T3 stage of translational research and on population-based medicine. Delaware has a unique statewide health information network that provides the infrastructure necessary to disseminate health care discoveries to the community and also offers a novel mechanism for measuring success of new approaches to translate research discoveries into clinical practice.*

## 3. Improve the health of the community in the Delaware Valley.

*DVICTS will develop innovative collaborations between experts in community-based medical practice, health economics and policy, population sciences, public health and policy, and materials and biomedical sciences to improve healthcare technology and to enhance opportunities for access to quality health care across diverse communities, including the underserved. The inclusion of all residents within a defined community (the State of Delaware) that mirrors national demographics provides a test-bed that will enable us to identify successful translational methods and technologies so that these can be transferred to benefit other communities.*

# NIH Funding

## NIH Annual Funding at DVICTS Partner Institutions:

Thomas Jefferson University	\$64,653,069
University of Delaware	\$23,779,793
Nemours/duPont Hospital for Children	\$2,638,423
Christiana Care Health Services	<u>\$3,906,537</u>
Totals	\$94,977,822

Total External funding in excess of \$300M

# NIH IDeA Life Sciences Initiatives

## NIH-NCRR IDeA – INBRE & COBRE

- IDeA – Institutional Development Awards
- INBRE – IDeA Network of Biomedical Research Excellence
- COBRE – Center of Biomedical Research Excellence

## INBRE

- Partnership between UD, Christiana Care, Nemours, DSU, Wesley College and Delaware Tech
- Funding since 2001: \$25MM (plus \$17MM currently pending)
- Focus on Cancer, Cardiovascular and Neuroscience

## COBRE

**Four COBREs in Delaware (total funding since 2000: \$70MM)**

- Membrane Protein Production & Characterization – PI: Abraham Lenhoff, UD
- Osteoarthritis, Prevention & Treatment – PI: Thomas Buchanan, UD
- Molecular Design of Advanced Biomaterials – PI: Thomas Beebe, UD
- Center for Pediatric Research – PI: Thomas Shaffer, Nemours

# “Crunch Time”

- **Grant due in October 13**
- **Support of State Government**
- **Support of Congressional delegation**
- **Delaware Bio will provide letter of support**
  
- **Thank you all for your support**