

Delaware Science & Technology Council

HUMAN HEALTH SUBCOMMITTEE

Nicholas Petrelli, MD
December 12, 2006



Human Health Initiative

◆ Purpose

- **To establish a program to build a nationally recognized biomedical research capability in Delaware**

◆ Proposal Submitted October 4, 2005

- **Initial Focus: Cancer**
- **Endorsed by S&T Council**
- **Recurring funding provided by State in 2006**



*Cancer Research Partnership:
Creation of CTCR in February, 2006*

**Center for
Translational
Cancer Research**

Director:

Mary C. Farach-Carson, PhD

www.udel.edu/ctcr



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Translational Research

- ◆ **Transforms scientific discoveries arising from laboratory, clinical or population studies into clinical application to reduce incidence, morbidity & mortality.**



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CTCR Objectives

- ◆ To create a multi-disciplinary, inter-institutional center without walls focused on coordinating clinical and basic science efforts in translational cancer research within the State of Delaware.
- ◆ Managed research and core facilities at UD, DBI, and Nemours.
- ◆ Clinical partners at Helen F Graham Cancer Center (HFGCC) at Christiana Hospital.
- ◆ Research and educational partnership with AI duPont Hospital for Children/Nemours Research Foundation.



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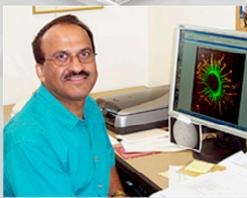
Collaborative Biomedical Research



DNA Oligonucleotide Sensitizing of Cells for
Chemotherapy – Kmiec/Bauer



3D Biomedical Visualization
– Steiner/Bauer



Role of JAM-A in Cancer Cell
Invasion – Naik/Dickson-Wittmer



Center for Translational Cancer
Research – Farach-Carson



Chick Embryo Model for Brain &
Breast Cancer – Galileo/Boulos



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Cancer-related Progress

- ◆ Tissue Bank in place for collection and processing of tissue samples at Christiana Care to provide researchers with breast, prostate, liver, head & neck, colon & rectal cancer samples and associated normal tissue. (Patient database)
- ◆ Bi-annual Translational Research Updates held at the HFGCC – over 50 attendees from UD, CCHS, Nemours.
- ◆ HFGCC pursuing National Cancer Institute (NCI) Pilot Initiative to be designated as an NCI Community Based Cancer Center Program (NCCCP).
- ◆ A new pavilion will be added to the HFGCC, providing a potential future home for the Center for Translational Cancer Research.



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Discovery Center at Helen F. Graham Cancer Center



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Other Human Health Progress

- ◆ **Multi-disciplinary effort in pediatric research at Nemours.**
- ◆ **Multi-institutional research effort in biomedical imaging.**
- ◆ **Statewide network for biomedical visualization in place at DBI, Christiana Care, Delaware Tech and DSU.**
- ◆ **UD scientists pursuing research in the area of nanotechnology for cancer detection and therapeutics.**
- ◆ **Christiana Center for Outcomes Research (CCOR) at Christiana Care (William Weintraub, MD)**



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Other Human Health Progress

- ◆ **Center for Heart and Vascular Health opened at Christiana Hospital campus November 2006**
 - ◆ 140 new in-patient rooms
 - ◆ 87,000 sft state-of-the-art science education center
 - ◆ 7,000 sft medical library.
- ◆ **Pediatric oncology research center at Nemours moved to newly renovated building November 2006.**
- ◆ **A statewide initiative is being launched to address the national and statewide nursing shortage.**



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The Bank of America Pavilion and John H. Ammon Medical Education Center



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Action Items

- ◆ Assess the potential of building a cardiovascular research capability in Delaware.
- ◆ Explore other opportunities.
- ◆ Reconstitute the Human Health Subcommittee.



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Human Health Subcommittee

- ◆ **Nicholas Petrelli, CCHS, HFGCC – Chair**
- ◆ **William Weintraub, CCHS, CCOR**
- ◆ **Brian Little, CCHS**
- ◆ **John O’Brien, AstraZeneca**
- ◆ **William Mezzanotte, AstraZeneca**
- ◆ **Paul Friedman, Incyte**
- ◆ **Karl V. Steiner, DBI**
- ◆ **David Weir, DBI**



DEPARTMENT OF
MEDICAL ONCOLOGY
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