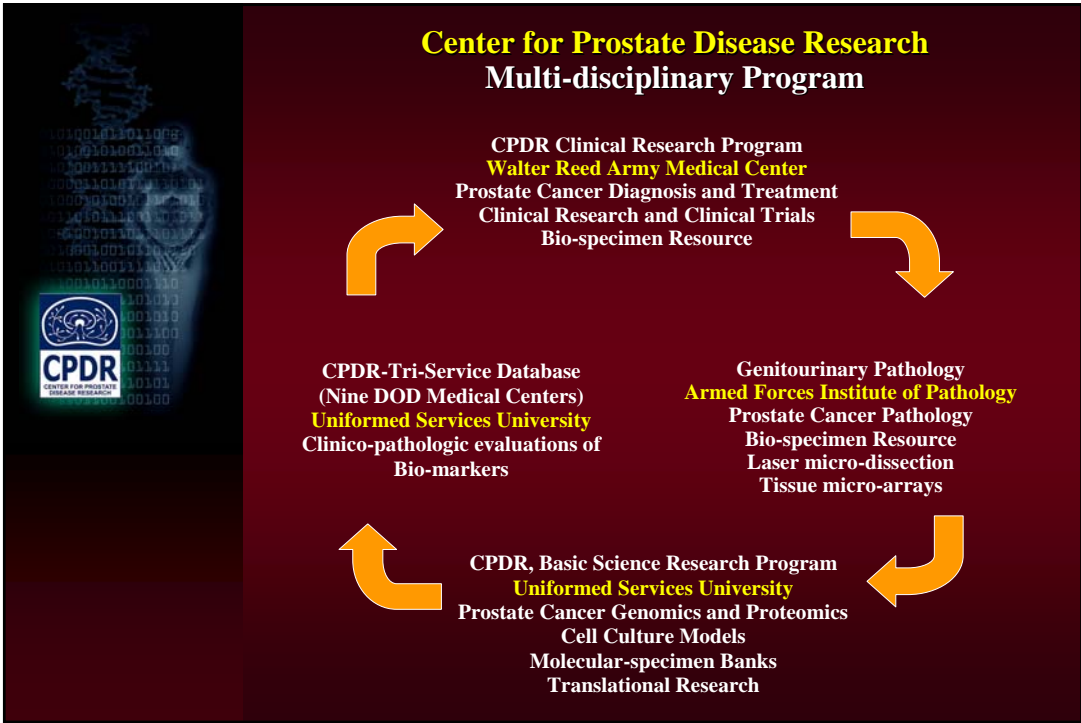


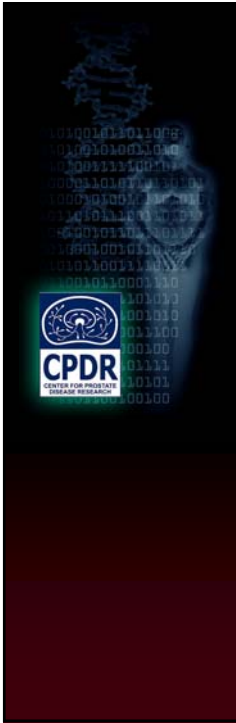


**NIH Indian Association,
Round Table Discussion, May 7, 2006**

**Global Collaborations: Academia and
Industry Collaborations, International
Collaborations**

Shiv Srivastava, PhD
Co-Director
Center for Prostate Disease Research
Professor & Judd W Moul Basic Science Chair
Department of Surgery, USUHS



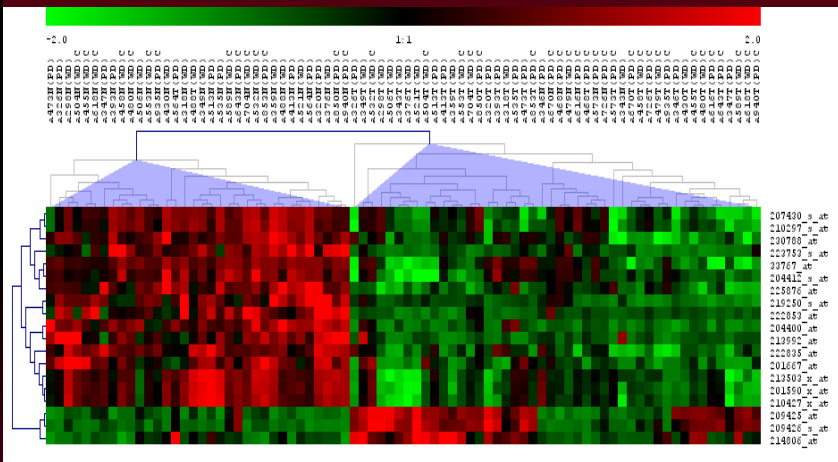


Translational Research 2006 = Team Effort

- Urology
- Medical & Radiation Oncology
- GU Pathology
- Cancer Molecular and Cell Biology
- Epidemiology
- Patient Database
- Information Technology
- Medical Technology
- Bio-specimens
- Bio-informatics
- Bio-statistics
- Publication and Communication
- Administration/Regulatory Affairs



Unsupervised hierarchical clustering analysis of 80 LCM-samples based on the 19 features (12 genes) biomarker: 95% sensitivity and 80% specificity





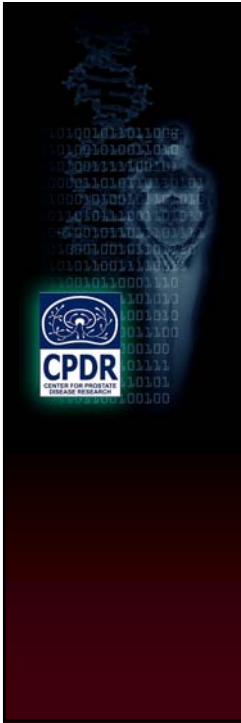
Novel Molecular Targets for Disease Diagnosis, Prognosis and Therapy: Promising Areas Collaboration?

- ❑ Disease Focus : Infectious Diseases, Cancer, Diabetes etc
- ❑ Academic Collaborations: Discoveries
Genomics, Proteomics, Nanotechnologies :
Biomarkers and Therapeutic targets
- ❑ Industrial Collaborations: Product development; Services (Informatics, Trials)



Expertise and Products
Focus on collaborations leading to useful and affordable

- ❑ Mutually beneficial academic collaborations
- ❑ Affordable products for disease screening and diagnosis: biomarkers (purified proteins, antibodies, molecular probes, nanotechnology, instrumentation)
- ❑ Small molecule development
- ❑ Bio-informatics
- ❑ Biospecimens for target prioritization and validations. IRB compliance.
- ❑ Pre-clinical animal and cell culture models
- ❑ Clinical trials



Expertise and Products

Focus on collaborations leading to useful and affordable

- **Prostate Specific Antigen (PSA)**

Only widely used blood based biomarker for a cancer (despite its severe limitations)

Dramatic reduction in metastatic disease

Increased quality of life.