Moffitt Cancer Center and caBIG®: A Data Sharing Partnership

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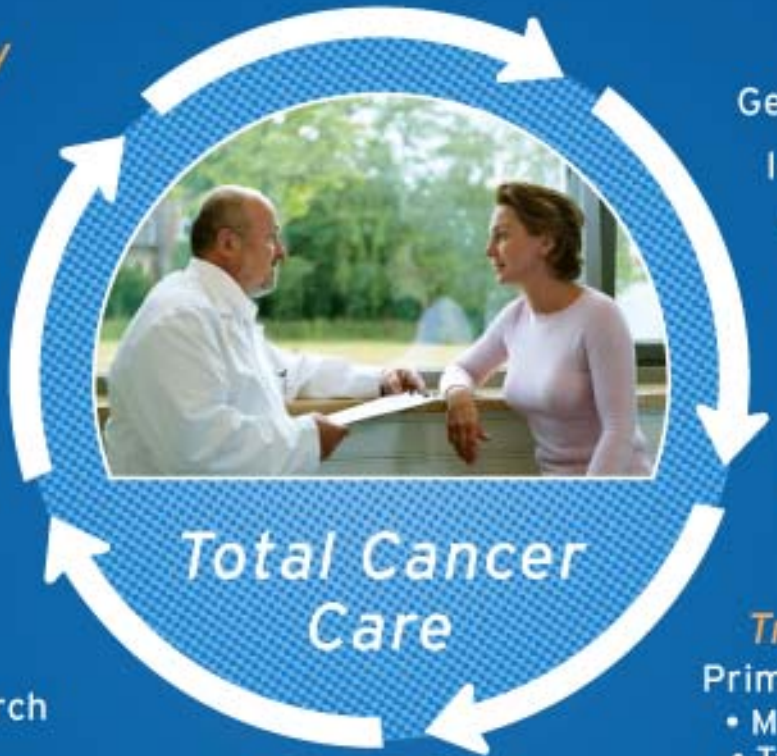
Moffitt Cancer Center

A Cancer Patient's Life Journey



Behavioral Oncology
Cancer Prevention

Lifestyle/Nutrition

Education

Populations At Risk
Risk Factors

Genetics

Early Detection

Health Disparities

Survivorship
Behavioral Research

Psychosocial & Palliative Care

Family Needs

Health Outcomes

Relapsed Disease
Recurrence Therapy

Drug Discovery

Clinical Trials

Treatment
Primary Therapy
- Multimodality
- Target Based

Post Therapy
- Surveillance

Prognosis
Molecular Oncology

Genomics/Proteomics

Diagnosis
Genomics/Proteomics

Imaging Modalities

Nanotechnology

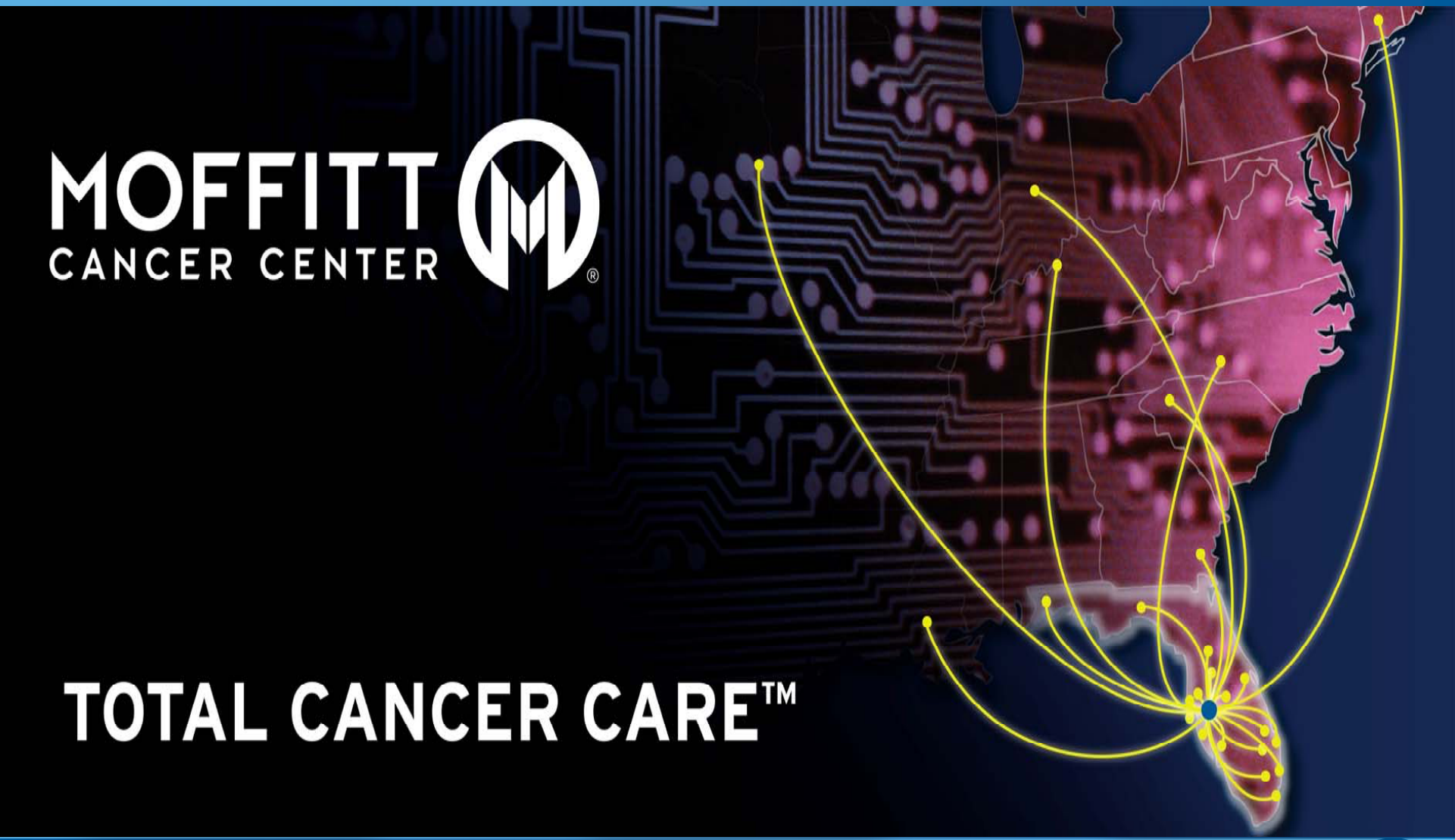
TCC protocol:

1. Can we follow you throughout your lifetime?
2. Can we study your tumor using molecular technology?
3. Can we recontact you?

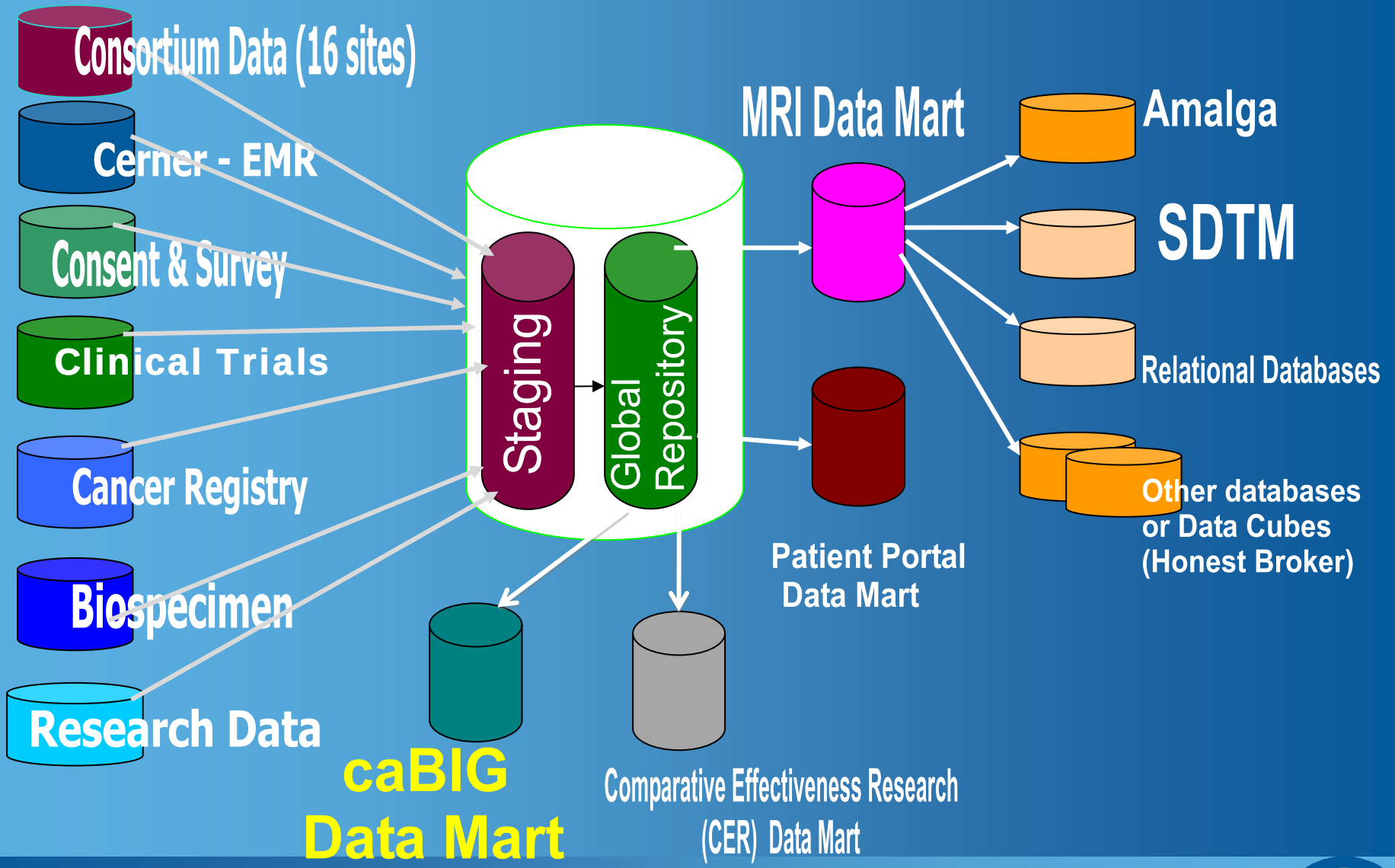
Total Cancer Care Today

- State of the art data warehouse in place
- Partnership with Merck for data generation and warehouse construction
- Over 36,912 patients prospectively consented
- 11,996 tissues collected since 2006
- 7,191 specimen profiles completed; 10K scheduled by end of 2009
- 18 participating sites contributing 80% of tumors
  - 10 in Florida (including Moffitt)
  - 8 other states (NC, SC, NE, LA, IN, KY, CT MI)
- Several international sites identified
- Access to clinical data and gene expression data

TCC Data Collection



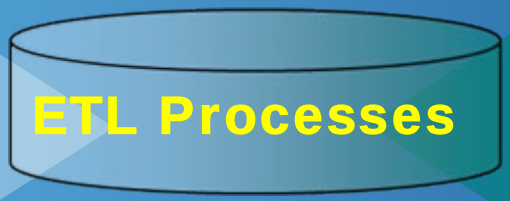
TCC Data Integration



TCC Integration with caBIG

Moffitt Commercial Software

- Microarray Data Resolver®
- Clinical Trials Data Oncore®
- Biospecimen Data LabVantage BioBanking
- Image Data Emageon®
- SNP Data caGWAS™/Custom

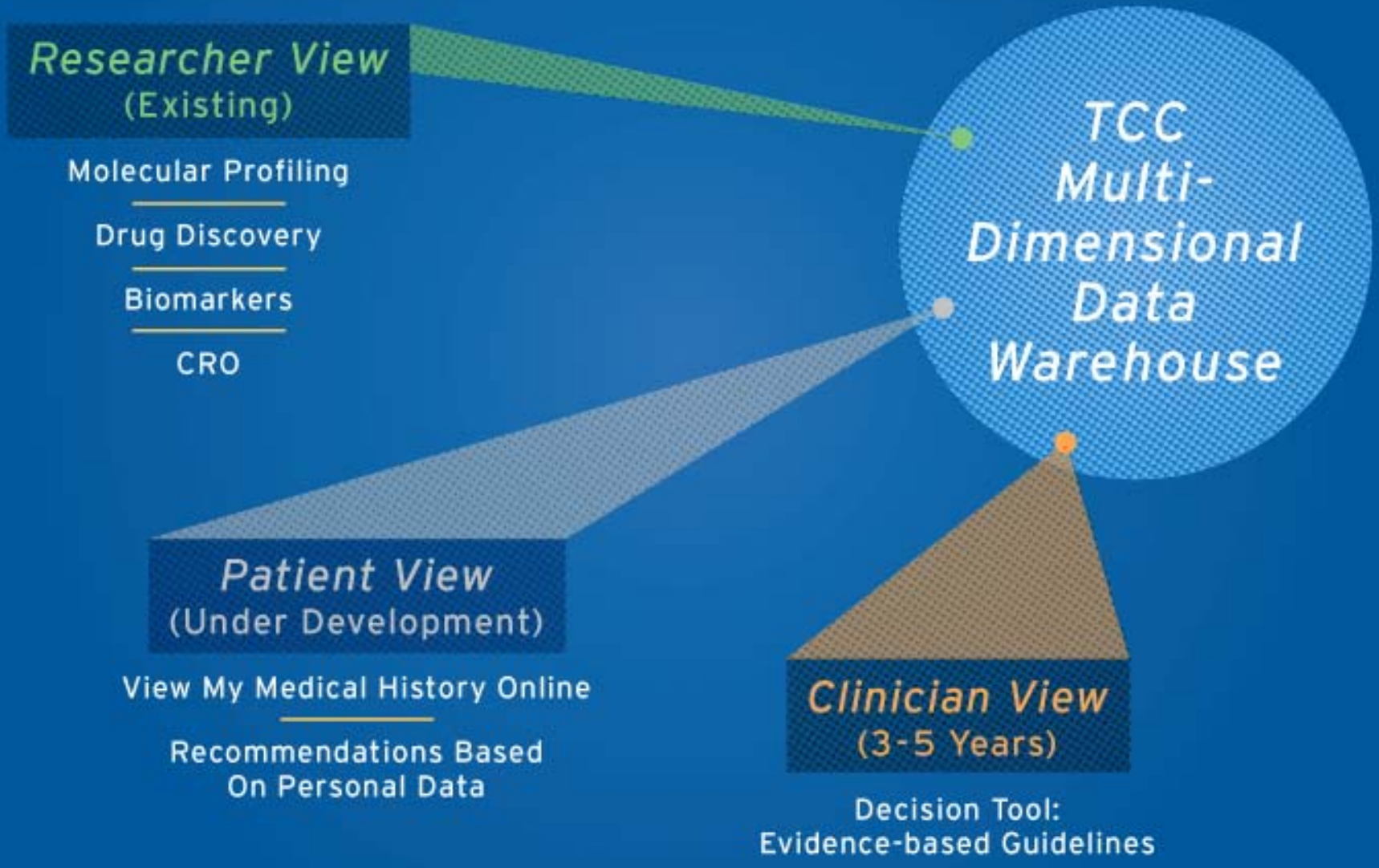


caBIG Data Mart

caBIG Software

- Microarray Data caArray™
- Clinical Trials Data caAERS™, CTODS™
- Biospecimen Data caTISSUE™
- Image Data caIMAGE™
- SNP Data caGWAS™

Three Portals To TCC



caBIG Implementation at MCC

- 2007-2008 (Year 1) – Assessment, Goals and Implementation Plan Completed
- 2008-2009 (Year 2) – caGrid, caArray, caGWAS, caTISSUE Suite and geWorkbench deployed; Ponce School of Medicine: caTISSUE Suite implementation
- 2009-2010 (Year 3) – caIMAGE, caAERS and CTODS to be deployed; Ponce School of Medicine: Active caGrid implementation using caTISSUE

Facilitating Research with caBIG Infrastructure

- MCC researchers sharing and consuming data via caGrid network using deployed tools
- MCC Data Sharing Plans
  - Colon 400 – 400 Affymetrix chips from MCC colorectal cancer study (release w/publication)
  - Ovarian Cancer GWAS study (>4000 Illumina 610K chips – Phase I) (release based on GINA)
  - Biospecimen data from NCI/NIH funded studies
  - Lung SPORE data (research, tissues and clinical)
  - Future: TCC data (microarrays, images, biospecimens and clinical metadata)

MCC caBIG Implementation Team

- Research IT
  - Sunil Shanmugam
  - Robert Sprinkle
- Biomedical Informatics
  - Andrew Hoerter*
  - Xiaotao Qu*
  - Zhihua Chen
  - Greg Bloom, Ph.D.
  - William Ge, Ph.D.*
  - Steven Eschrich, Ph.D.
- IT
  - Don Wasylyna
  - Don Chancey
  - Graham Smith
  - William Totten
- MCC Deployment Lead
  - David Fenstermacher, Ph.D.*

* Working with Ponce School of Medicine to implement caTISSUE Suite and caGrid