

THE NCI SEER PROGRAM'S RESIDUAL TISSUE REPOSITORY (RTR)

Sean Altekruse,¹ David Stinchcomb,¹ Lawrence Hwang,¹ Marsha Reichman,¹ Charles Lynch,² Freda Selk,² Harvey Diehl,² Wendy Cozen,³ Maria Sibug-Saber,³ Myles Cockburn,³ Marc Goodman,⁴ Michael Green,⁴ Brenda Hernandez,⁴ Catherine Grafel-Anderson⁴ and the RTR Work Group

Affiliations: 1. National Cancer Institute, Division of Cancer Control and Population Sciences, Rockville, MD 2. University of Iowa, College of Public Health, Department of Epidemiology, Iowa City, IA 3. University of Southern California, Keck School of Medicine, Los Angeles, CA 4. University of Hawaii, Cancer Research Center of Hawaii, Honolulu, HI

Population-based Registries

- Hawaii
- Iowa
- Los Angeles

Background

- Tissues slated for destruction by path labs
 - ▶ Formalin fixed paraffin imbedded blocks
- Population-based tumors from registry area
 - ▶ Not only research facilities
- Compare representativeness with registry
 - ▶ Assess bias

Case Attributes

- Racially/ ethnically diverse populations
 - ▶ White, Black, Asian, Pacific Islander
 - ▶ Hispanic
- Data for registry cases include
 - ▶ Age, Sex
 - ▶ Primary Site, Stage
 - ▶ Tumor Sequence Number
 - ▶ First-Course Therapy
 - ▶ Vital status
 - Outcome
 - Cause of Death

Selected Publications

1. Anderson WF, et al. Human egf-2 and estrogen receptor expression: a demonstration project using the SEER residual tissue repository. *Breast Cancer Res Treat* 2008.
2. Glaser SL, et al. Racial/ethnic variation in EBV-positive classical Hodgkin lymphoma in California populations. *Int J Cancer* 2008;123:1499-507.
3. Goodman MT, et al. Tissues from population-based cancer registries: a novel approach to increasing research potential. *Hum Pathol* 2005;36:812-20.
4. Hernandez BY, et al. CK20 and CK7 protein expression in colorectal cancer: Demonstration of the utility of a population-based tissue microarray. *Hum Pathol* 2005;36:275-81.
5. Lynch CF, et al. Procurement of population-based cancer tissue in Iowa. *Mod Pathol* 1999;12:422-26.
6. Takikita M, et al. Associations between Selected Biomarkers and Prognosis In A Population-Based Pancreatic Cancer Tissue Microarray. *Cancer Research*. 2009. In Press.
7. Thyagarajan B, et al. New approaches for genotyping paraffin wax embedded breast tissue from patients with cancer: the Iowa women's health study. *J Clin Pathol* 2005;58:955-61.
8. Thyagarajan B, et al. No association between XRCC1 and XRCC3 gene polymorphisms and breast cancer risk: Iowa Women's Health Study. *Cancer Detect Prev* 2006;30:313-21.
9. Tsou JA, et al. Identification of sensitive and specific DNA methylation markers for lung adenocarcinoma. *Mol Cancer* 2007 Oct 29;6:70.
10. Wang SS, et al. Chromosomal aberrations in peripheral blood lymphocytes and risk for non-Hodgkin lymphoma. *Natl Cancer Inst Monogr* 2008;39:78-82.

Accomplishments

- Published etiologic/ prognostic studies:
 - ▶ Breast
 - ▶ Colorectal
 - ▶ Pancreatic
- Current studies:
 - ▶ Primary CNS Lymphoma
 - ▶ Burkitt Lymphoma
 - ▶ Ovarian
 - ▶ Breast
 - ▶ Hepatocellular carcinoma
 - ▶ HPV-related Tumors

Goals

- Use of RTR biospecimens for
 - ▶ Population-based studies
 - ▶ Research on rare cancers

Available Resources

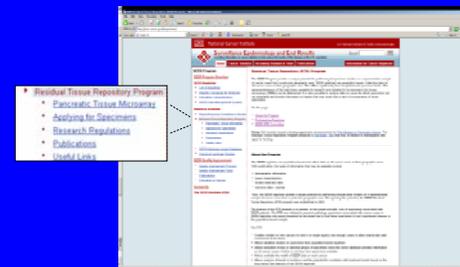
- Tumor tissues by topography and morphology
 - ▶ Formalin fixed paraffin imbedded blocks
 - ▶ Pancreatic Tissue microarray (TMA)
- Registry-specific TMAs available from
 - ▶ Hawaii
 - Breast
 - Colorectal
 - ▶ Los Angeles
 - Melanoma
 - Testicular

How to Request Specimens

- Tissues available via an application process
- Priority given to population-based studies
- Send brief concept and tissue requirements to seer-rtr@imsweb.com
- One to two page summary
 - ▶ Include ICD-O-3 site and morphology codes
 - ▶ Describe objectives, methods, funding
- RTR will assess if matching resources exist

Visit the RTR Website

- <http://seer.cancer.gov/biospecimen>



Query the RTR

- Complete request form on the RTR website
- Submit to seer-rtr@imsweb.com
- Feel free to take a copy of the form (below)

National Cancer Institute
Biospecimen Request Form

Please fill out the following form and press the submit button when finished. Or, send form manually as an email attachment to seer-rtr@imsweb.com

Principal Investigator: _____
 Title of Study: _____
 Funding Agency: _____
 Grant Number (if available): _____
 Date of Request: (MM/YY) _____
 Check/Tissue Microarray requested - available TMA: Pancreatic cancer
 ICD-O-3 Topography Code(s): _____ ICD-O-3 Morphology Code(s): _____

Requested Case Data Items (Check all that apply):
 Race
 Gender
 Age at Diagnosis: Specify age range (if applicable): _____ Not Applicable
 Year of Diagnosis: Specify year range (if applicable): _____ Not Applicable

Other Requested Data Items (e.g., Stage, Grade, Behavior): _____

Rationale for requesting population based specimens: _____

Brief summary of study hypothesis, goals, and objectives: _____

Type of histopathology material requested (check all that apply):
 Tissue Blocks Treated Slides Unreated Slides TMA Other (specify): _____

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