**SWOG Solid Tumor Biorepository**
- One of three biorepositories operated by SWOG.
  - Leukemia in New Mexico
  - Lymphoma/myeloma in Arizona
- Location
  - Aurora, CO

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**Solid Tumor Staff**
- Wilbur A. Franklin, MD, Director
- Miguel Martinez, MSPH Epidemiologist, Senior Research Associate
- Pat Lenhart, BS, Histotechnologist

Contact Information:
- Shipping Address:
  - SWOG Solid Tumor Biorepository
  - 12801 E. 17th Ave.
  - RC-1 South, L18-5400 A
  - Aurora, CO 80045
- Phone: 303-724-3086
- Fax: 303-724-3096
- Email: miquel.martinez@uchsc.edu

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**History of the bank**
- Previous location
  - New Mexico
  - University of Cincinnati
- Oct. 2006 moved to Colorado
- Please update your protocols. Cincinnati no longer receives any material for banking.

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**Purpose**
- To provide biospecimens for evaluating molecular correlates from SWOG trials
- To maintain a central location for registering, tracking and processing SWOG biospecimens for molecular testing
- Quality assurance for SWOG molecular testing
- To maintain sample archives for future studies
**Arrive** 9:30 **– 10:00**  
**same times**

**SWOG Inventory by Site, 06-08**

<table>
<thead>
<tr>
<th>Site</th>
<th>Subjects</th>
<th>Total Specimens</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brain</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Breast</td>
<td>1910</td>
<td>22,177</td>
</tr>
<tr>
<td>GI</td>
<td>1061</td>
<td>20,124</td>
</tr>
<tr>
<td>GU</td>
<td>391</td>
<td>1,739</td>
</tr>
<tr>
<td>Head &amp; Neck</td>
<td>4</td>
<td>29</td>
</tr>
<tr>
<td>Lung</td>
<td>355</td>
<td>3,725</td>
</tr>
<tr>
<td>Melanoma</td>
<td>8</td>
<td>136</td>
</tr>
<tr>
<td>Prostate</td>
<td>573</td>
<td>4,185</td>
</tr>
<tr>
<td>Sarcoma</td>
<td>91</td>
<td>1,263</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>4334</td>
<td>53,381</td>
</tr>
</tbody>
</table>

**Receiving Packages**

- 25-30 packages daily
- Arrive 9:30 – 10:00
- All packages arrive at the same time
  - **Ex**: NY to CO
    - 4398-78 FedEx 3rd overnight
    - $12.39 FedEx priority overnight
    - $2.38 FedEx std overnight

**Bank Information**

- **Blocks**: 2310
- **Unstained Slides**: 15269
- **H&E Stained Slides**: 1078
- **EDTA Plasma**: 8671
- **Citrate Plasma**: 4114
- **Serum**: 15343
- **Whole Blood**: 1090
- **Buffy Coat**: 1172
- **TOTAL Samples**: 53381 (4331 patients)

**Receiving Packages (cont.)**

- Sort samples and packing lists.
- **Required paperwork**:
  - Requested Packing List
  - Pathology Report (tissue)
- **Not Required**:
  - Patient Consents
  - **Shipping list**
- **Patient reports** should be de-identified
Receiving Packages (cont.)
- Samples are aliquoted into 2 mL cryovials
- Each vial receives a unique 12 digit number & barcode

Confirming Samples in STS
- Samples are confirmed as being received in tracking system

SWOG Specimen Tracking System

Storage of Samples
- Assist with specimen collection (Spec track, collection kits)
- Tissue processing and diagnosis
  - Histology assessment
  - Tumor cell enrichment
    - Laser capture
    - Block punch
  - DNA/RNA extractions microdissection
  - Tissue microarrays
  - IHC

Services
What the bank can do for you

- Monitor what samples have been submitted to the bank.
- Help answer study questions
- Direct you to the correct resources
- Supply study kits for S0226.

Questions the bank CAN help you with.

- Blood collection
  - Types of vacutainers (EDTA vs. SST vs. Citrate)
- Centrifuge timed spin cycles
- Ice pack vs. dry ice
- Shipping of biohazard material
- Correct documentation and labeling

SPECIMEN SUBMISSION

- Shipping Address:
  
  **SWOG Solid Tumor Biorepository**
  
  12801 E. 17th Ave.
  
  RC-1 South, L18-5400 A
  
  Aurora, CO 80045

- Phone: 303-724-3086
- Fax: 303-724-3096
- Email: miguel.martinez@uchsc.edu

Bank Information

Log and Ship through SWOG Tracking System
Packing List Needed

![Blood Collection image]

Blood Collection

- **Vacutainers used:**
  - Pink, Purple or lavender - contains EDTA (the potassium salt, or K\(_2\)EDTA). This is a strong anticoagulant and these tubes are usually used for **full blood counts (CBC)**.

Vacutainers (cont.)

- Yellow or Light blue - Contain a measured amount of citrate. Citrate is a reversible anticoagulant.

- Red or Red/Black - SST (serum separator tube) contain particles to cause blood to clot quickly.

Sample processing

- **Check with you lab on site.**
- **Serum:** 20 minutes at 1100-1300 g

Sample Storage

- Buffy Coat and Plasma (req. 2 cycles)
  1. 15 minutes at 400 g
     - Remove buffy coat interface
  2. 15 minutes at 1200 G
     - Remove cleared plasma
Sample Submission

- Ship all samples via overnight delivery with FedEx, UPS or DHL
- Paraffin Tissue Blocks
- H&E Stained Slides
- Unstained Slides

Block submission

- Usually surgically resected tissue prior to study.
- Core biopsy if no resected tissue.

Institution will not release block

- Refer to protocol for slide submission
- Punch biopsy tool can be used.
  - H&E stained slide
  - Unstained slides

Slide Submission

- Slides should be individually labeled with the SWOG patient ID, study and date of collection.
- Slides should be packaged in a slide cassettes or other durable containers.
- April through November, an ice pack should be placed in the package to prevent paraffin from melting.

Sample Is Not Available

- Record in CRA workbench
- Will remove sample from site's expectation list.
Request Block Returned

- Contact the bank via email or fax.
- Need Patient ID, SWOG study, Contact info and Shipping address.
- Please allow 7 business days for return.

Shipping Samples

- All packages arrive around the same time
  - Ex: New York to Colorado
  - $108.78 FedEx 1st overnight
  - $12.19 FedEx priority overnight
  - $12.18 FedEx std overnight

Shipping Blood Samples

- All samples need to be logged into the SWOG spectrac system
  - www.swog.org
- All sample shipping labels must be generated by the tracking system
- All should be mailed via overnight with dry ice
- Packaging list should go inside the package with the samples
- Vials should be individually labeled with the SWOG patient ID, study and date of collection
- Vials should be placed in a biohazard bag
- Samples should be shipped via overnight delivery with a commercial carrier
- Do not send samples on Friday or before holidays
- There is nobody at the bank to receive samples

Dry Ice vs. Ice Pack

- Whole Blood – Ice Pack
- Buffy Coat, Plasma and Serum – Dry Ice
  - 3 to 5 lbs of dry ice is needed
  - Dead space should be filled with packing material

Centrifuge (3000xG – 15min)

Peripheral Blood

(2-6.5 ml ACD Vacutainer Lavender Top Tubes)

Plasma

(4x 2 ml Freezer Vial purple cap)

Buffy Coat

(2x 2 ml Freezer Vial yellow cap)

Dry Ice vs. Ice Pack

Whole Blood – Ice Pack

Buffy Coat, Plasma and Serum – Dry Ice

3 to 5 lbs of dry ice is needed

Dead space should be filled with packing material
Shipping Tissue Samples

- All samples need to be logged into the SWOG spectrac system at www.swog.org.
- Please include the packing list generated by the tracking system with the package.
- Please include the pathology report for the samples.
- Slides should be individually labeled with the SWOG patient ID, study and date of collection.
- Slides should be packaged in a slide cassettes or other durable containers.
- April through November an ice pack should be placed in the package to prevent paraffin from melting.

Shipping Labels

- Study specific kits
  - Currently only for S0226
  - Quest Diagnostics
  - No account number for shipments
    - Please DO NOT:
      - Use account number from packages the bank sends out
      - Mark/check "bill recipient"

What you can do for the bank

- Ship samples Monday thru Thursday.
- Provide the correct patient information
- Enter patient information in the specimen tracking system.
- Confirm that you “ship” the sample through the tracking system.