

**OBBR**

Office of Biorepositories  
and Biospecimen Research

# caTissue Core 1.2 Demonstration

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Director of Bioinformatics

The Robert H. Lurie Comprehensive Cancer Center  
Northwestern University

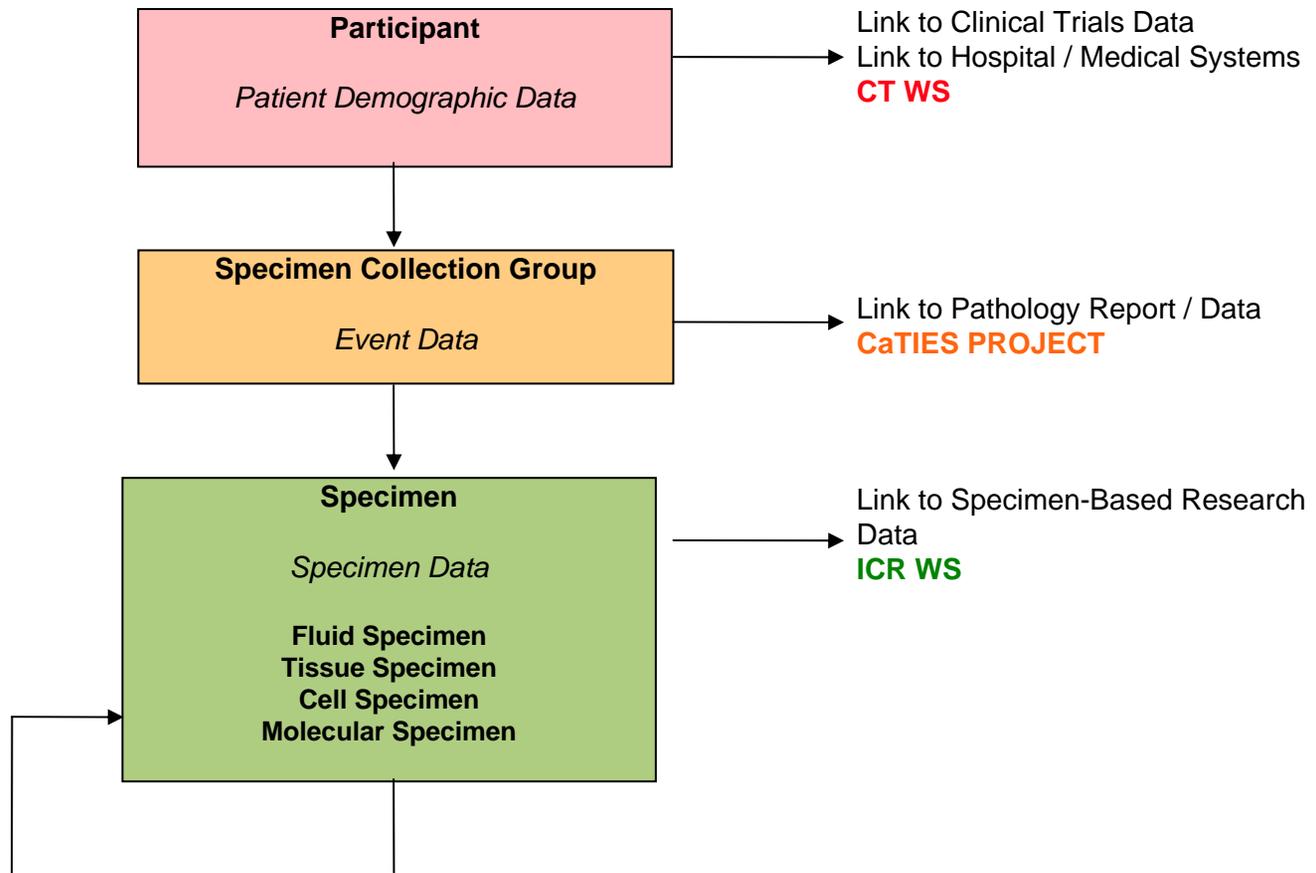
NATIONAL  
CANCER  
INSTITUTE



# Outline

- **"Object Model"**
- **Login**
- **User administration**
- **Biospecimen workflows**
  - Add a Participant
  - Add a Collection Protocol
  - Add a Biospecimen
  - Collection Events
  - Searching
  - Reports

# Flexible Specimen Hierarchy



# Splash screen - login

caBIG cancer Biomedical Informatics Grid

QUICK LINKS

- caBIG HOME
- NCICB HOME
- SITE HOME

HOME SUMMARY HELP

Welcome to caTissue Cor

Study Participant

- Serum
- Serum
- Lyr
- Tumo B

Fro

Core

CONTACT US PRIVACY NO

- Email Address is required
- Password is required

Email address

Password

Login

[Sign Up](#)

[Forgot your password?](#)

# Administrative tab - Users



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HOME ADMINISTRATIVE DATA BIO-SPECIMEN DATA SEARCH SUMMARY HELP

Sign Out

## USER SEARCH RESULT

Search Results

100 Records Per Page

Showing Results 1 - 4 of 4

1

First Name : User	Zip Code : User	Date : User	Department Name : User	Country : User	Login Name : User	Institution Name : User	State : User	Identifier
Dong	60611		Lurie Cancer Cen	United States	dongfu@northwe	Northwestern Uni	Illinois	1
Warren	60611	02-15-2007	Lurie Cancer Cen	United States	wakibbe@northw	Northwestern Uni	Illinois	2
Julie	60611	02-15-2007	Lurie Cancer Cen	United States	l-zhu2@northwes	Northwestern Uni	Illinois	3
Juergen	22102	09-19-2007	caBIG	United States	klenk_juergen@b	Booz   Allen   Han	Virginia	4

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FIRSTGOV

# Biospecimen default view

Collection Protocol: Register

✓ --Select--

Patient Name: IPBS Protocol Id)

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101505 caTISSUE

HELP Sign Out

Collection Protocol: Add | Edit | Aliquot

DISTRIBUTION: Add | Specimen Report | Array Report

QUICK LINKS: caBIG HOME, NCICB HOME, SITE HOME

Specimen Details :

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# View a Collection Protocol



## Collection Protocol : Register

IPBS



### Participant : Name (Protocol Id)

- Bannon , Roger "Race" (N/A)
- Doe , Jason (1001)
- Doe , Josh (1003)
- Gleason , Jackie (N/A)
- Quest , Jonny (N/A)
- Rodriguez , Jeanette (1005)
- Rousey , Ronda (1005)
- Zin , Dr (123)

Collection Protocol Base

PARTICIPANT

[Add](#) | [Edit](#)

PARTICIPANT REGISTRATION

[Add](#) | [Edit](#)

SPECIMEN COLLECTION

[Add](#) | [Edit](#)

SPECIMEN

[Add](#) | [Single](#) | [Multiple](#) | [Edit](#) | [Derive](#) | [Aliquot](#) | [Events](#)

SPECIMEN ARRAY

[Add](#)

[Edit](#) | [Aliquot](#)

DISTRIBUTION

[Add](#) | [Specimen Report](#) | [Array](#)

QUICK LINKS

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[NCICB HOME](#)

[SITE HOME](#)

# Select a Participant



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Collection Protocol Based View

PARTICIPANT  
[Add](#) | [Edit](#)

PARTICIPANT REGISTRATION  
[Add](#) | [Edit](#)

SPECIMEN COLLECTION GROUP  
[Add](#) | [Edit](#)

SPECIMEN  
[Add](#) | [Single](#) | [Multiple](#) | [Edit](#)  
[Derive](#) | [Aliquot](#) | [Events](#)

SPECIMEN ARRAY  
[Add](#)  
[Edit](#) | [Aliquot](#)

DISTRIBUTION  
[Add](#)  
[Specimen Report](#) | [Array Report](#)

QUICK LINKS

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Collection Protocol : Register

IPBS

Participant : Name (Protocol Id)

Bannon , Roger "Race" (N/A)  
Doe , Jason (1001)  
Doe , Josh (1003)  
Gleason , Jackie (N/A)  
Quest , Jonny (N/A)  
Rodriguez , Jeanette (1005)  
Rousey , Ronda (1005)  
Zin , Dr (123)

Edit [View Surgical Pathology Report](#) [View Clinical Annotation](#)

\* indicates a required field

## EDIT PARTICIPANT

Last Name	Quest
First Name	Jonny
Middle Name	
Birth Date	05-22-1956 [MM-DD-YYYY or MM/DD/YYYY]
Vital Status	<input type="radio"/> Alive <input type="radio"/> Dead <input checked="" type="radio"/> Unknown <input type="radio"/> Unspecified
	<input type="radio"/> Female <input checked="" type="radio"/> Male <input type="radio"/> Unknown <input type="radio"/> Unspecified
	Unknown
	Not Reported Not Specified Unknown White
	Not Specified

## Specimen Details :

T1.0: null: 2007-09-2  
prostate

# View specimen collection group



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Sign Out

Collection Protocol Based View

PARTICIPANT  
[Add](#) | [Edit](#)

PARTICIPANT REGISTRATION  
[Add](#) | [Edit](#)

SPECIMEN COLLECTION GROUP  
[Add](#) | [Edit](#)

SPECIMEN  
[Add: Single](#) | [Multiple](#) | [Edit](#)  
[Derive](#) | [Aliquot](#) | [Events](#)

SPECIMEN ARRAY  
[Add](#)  
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DISTRIBUTION  
[Add](#)  
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QUICK LINKS

caBIG HOME

NCICB HOME

SITE HOME

Collection Protocol : [Register](#)

IPBS

Participant : Name (Protocol Id)

Bannon , Roger "Race" (N/A)  
Doe , Jason (1001)  
Doe , Josh (1003)  
Gleason , Jackie (N/A)  
Quest , Jonny (N/A)  
Rodriguez , Jeanette (1005)  
Rousey , Ronda (1005)  
Zin , Dr (123)

Edit [View Surgical Pathology Report](#) [View Clinical Annotation](#)

\* indicates a required field

## EDIT SPECIMEN COLLECTION GROUP

* Collection Protocol Title	IPBS	
* Site	NMH	
<input checked="" type="radio"/> Participant	Quest, Jonny, 1956-05-22, 976-88-2007	<a href="#">Add New</a>
<input type="radio"/> Protocol Participant Identifier	-- Select --	<a href="#">Add New</a>
* Specimen Group Name	IPBS_6_5	<a href="#">Reset Name</a>
* Study Calendar Event Point	1.0	Days
al Diagnosis	Not Specified	<a href="#">E</a>
al Status	Post-Operative	
al Record Number	976882007	
al pathology number	2006-11-00294	
ly Status	Active	

## Specimen Details :

T1.0: null: 2007-09-2

prostate

# View specimen in collection group



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## Collection Protocol : Register

IPBS

### Participant : Name (Protocol Id)

- Bannon , Roger \*Race\* (N/A)
- Doe , Jason (1001)
- Doe , Josh (1003)
- Gleason , Jackie (N/A)
- Quest , Jonny (N/A)
- Rodriguez , Jeanette (1005)
- Rousey , Ronda (1005)
- Zin , Dr (123)

Events		New Surgical Pathology Report		New Clinical Annotation	
Required field					
<b>IDENTIFICATION</b>					
Group Name	IPBS_6_5	Add New	* Lineage	New	
	prostate		Barcode	000498	
	Tissue		* Type	Frozen Tissue	
	-- Select --		* Tissue Side	Not Specified	
Status	Pre-Malignant		* Activity Status	Active	
Weight	12.0	gm	Concentration	µg/µl	
	<input type="checkbox"/>		Available Quantity	12.0	
Location	NMH_Freezer1_1	1	3	MAP	
Comments					
<b>EXTERNAL IDENTIFIER(S)</b> <span style="float: right;">Add More</span>					

#### Specimen Details :

T1.0: null: 2007-09-2  
 prostate

- Collection Protocol Based V
- PARTICIPANT  
[Add](#) | [Edit](#)
- PARTICIPANT REGISTRATIO  
[Add](#) | [Edit](#)
- SPECIMEN COLLECTION GR  
[Add](#) | [Edit](#)
- SPECIMEN  
[Add](#): [Single](#) | [Multiple](#) | [Edit](#)  
[Derive](#) | [Aliquot](#) | [Events](#)
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# View another participant



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Collection Protocol Based View

PARTICIPANT

Add | Edit

PARTICIPANT REGISTRATION

Add | Edit

SPECIMEN COLLECTION GROUP

Add | Edit

SPECIMEN

Add: Single | Multiple | Edit

Derive | Aliquot | Events

SPECIMEN ARRAY

Add

Edit | Aliquot

DISTRIBUTION

Add

Specimen Report | Array Report

QUICK LINKS

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Collection Protocol : Register

IPBS

Participant : Name (Protocol Id)

Edit

New Surgical Pathology Report

New Clinical Annotation

\* indicates a required field

## Specimen Details :

T1.0: null: 2007-09-2

55-1123

55-1207

## PARTICIPANT

name Bannon

name Roger "Race"

last name T

date of birth 09-20-1935 [MM-DD-YYYY or MM/DD/YYYY]

status  Alive  Dead  Unknown  Unspecified

date of death [MM-DD-YYYY or MM/DD/YYYY]

sex  Female  Male  Unknown  Unspecified

phenotype Unknown

Black or African American  
Native Hawaiian or Other Pacific Islander  
Not Reported  
Not Specified

Not Specified

# View specimen

caCollection Protocol : Register

IPBS

Participant : Name (Protocol Id)

- Bannon , Roger "Race" (N/A)
- Doe , Jason (1001)
- Doe , Josh (1003)
- Gleason , Jackie (N/A)
- Quest , Jonny (N/A)
- Rodriguez , Jeanette (1005)
- Rousey , Ronda (1005)
- Zin , Dr (123)

55-1207

Specimen Group Name	IPBS_11_7	Add New	* Lineage	New
Barcode	55-1123		Barcode	
Type	Tissue		* Type	Fixed Tissue Block
Tissue Site	Prostate gland		* Tissue Side	Not Specified
Biological Status	Not Specified		* Activity Status	Active
Quantity	35	count	Concentration	µg/µl
Available?	<input type="checkbox"/>		Available Quantity	35 count
* Storage Position	Specimen is virtually Located			
Comments	<input type="text"/>			

EXTERNAL IDENTIFIER(S) Add More

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- Collection Protocol
- PARTICIPANT Add | Edit
- PARTICIPANT REG Add | Edit
- SPECIMEN COLLEC Add | Edit
- SPECIMEN Add | Single | Multiple Derive | Aliquot | Eve
- SPECIMEN ARRAY Add Edit | Aliquot
- DISTRIBUTION Add Specimen Report | A
- QUICK LINKS
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# Another participant



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SPECIMEN  
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Collection Protocol : Register

IPBS

Participant : Name (Protocol Id)

Bannon , Roger "Race" (N/A)  
Doe , Jason (1001)  
Doe , Josh (1003)  
Gleason , Jackie (N/A)  
Quest , Jonny (N/A)  
Rodriguez , Jeanette (1005)  
Rousey , Ronda (1005)  
Zin , Dr (123)

Specimen Details :

T1.0: null: 2007-08-2

- 1001
- 1
- 2
- 3

Specimen Details Events View Surgical Pathology Report View Clinical Annotation

\* indicates a required field

### EDIT SPECIMEN

* Specimen Group Name	IPBS_2_1 <a href="#">Add New</a>	* Lineage	New
* Label	1001	Barcode	1111
* Class	Cell	* Type	Frozen Cell Block
* Tissue Site	-- Select --	* Tissue Side	Right
* Pathological Status	Metastatic	* Activity Status	Active
* Initial Quantity	10000 cell count	Concentration	
Is Available?	<input type="checkbox"/>	Available Quantity	9990 count
* Storage Position	Specimen is virtually Located		
Comments	<input type="text"/>		

EXTERNAL IDENTIFIER(S)

[Add More](#)



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# Adding a participant



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## Collection Protocol Based View

### PARTICIPANT [Add](#) | [Edit](#)

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  - Add
  - [Specimen Report](#) | [Array Report](#)
- QUICK LINKS
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  - SITE HOME

**Specimen Details :**

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# Add a Participant



[Collection Protocol Based View](#)

**PARTICIPANT**

[Add](#) | [Edit](#)

**PARTICIPANT REGISTRATION**

[Add](#) | [Edit](#)

**SPECIMEN COLLECTION GROUP**

[Add](#) | [Edit](#)

**SPECIMEN**

[Add: Single](#) | [Multiple](#) | [Edit](#)

[Derive](#) | [Aliquot](#) | [Events](#)

**SPECIMEN ARRAY**

[Add](#)

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**DISTRIBUTION**

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**QUICK LINKS**

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\* indicates a required field

## ADD PARTICIPANT

Last Name	<input type="text"/>
First Name	<input type="text"/>
Middle Name	<input type="text"/>
Birth Date	<input type="text"/> [MM-DD-YYYY or MM/DD/YYYY]
Vital Status	<input type="radio"/> Alive <input type="radio"/> Dead <input checked="" type="radio"/> Unknown <input type="radio"/> Unspecified
Death Date	<input type="text"/> [MM-DD-YYYY or MM/DD/YYYY]
Gender	<input type="radio"/> Female <input type="radio"/> Male <input type="radio"/> Unknown <input checked="" type="radio"/> Unspecified
Sex Genotype	Unknown
Race	Native Hawaiian or Other Pacific Islander Not Reported Not Specified Unknown
Ethnicity	Unknown
Social Security Number (SSN)	<input type="text"/> - <input type="text"/> - <input type="text"/>

## MEDICAL IDENTIFIER(S)

[Add More](#)

[Delete](#)

#	Source	Medical Record Number	Delete?
1.	-- Select --	<input type="text"/>	<input type="checkbox"/>

[Submit](#)

[Register to Protocol](#)

# Enter participant data

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[Add](#)  
[Specimen Report](#) | [Array Report](#)

QUICK LINKS

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\* indicates a required field

## ADD PARTICIPANT

Last Name	<input type="text" value="Zin"/>
First Name	<input type="text" value="Dr"/>
Middle Name	<input type="text"/>
Birth Date	<input type="text" value="05/05/15"/> [MM-DD-YYYY or MM/DD/YYYY]
Vital Status	<input type="radio"/> Alive <input type="radio"/> Dead <input checked="" type="radio"/> Unknown <input type="radio"/> Unspecified
Death Date	<input type="text"/> [MM-DD-YYYY or MM/DD/YYYY]
Gender	<input type="radio"/> Female <input checked="" type="radio"/> Male <input type="radio"/> Unknown <input type="radio"/> Unspecified
Sex Genotype	<input type="text" value="Unknown"/>
Race	<input type="text" value="American Indian or Alaska Native"/> Asian Black or African American Native Hawaiian or Other Pacific Islander
Ethnicity	<input type="text" value="Not Reported"/>
Social Security Number (SSN)	<input type="text" value=""/> - <input type="text" value=""/> - <input type="text" value=""/>

## MEDICAL IDENTIFIER(S)

[Add More](#)

[Delete](#)

#	Source	Medical Record Number	Delete?
1.	<input type="text" value="-- Select --"/>	<input type="text"/>	<input type="checkbox"/>

[Submit](#)

[Register to Protocol](#)

# Adding MRN to participant

[Collection Protocol Based View](#)

[PARTICIPANT](#)  
[Add](#) | [Edit](#)

[PARTICIPANT REGISTRATION](#)  
[Add](#) | [Edit](#)

[SPECIMEN COLLECTION GROUP](#)  
[Add](#) | [Edit](#)

[SPECIMEN](#)  
[Add](#) | [Single](#) | [Multiple](#) | [Edit](#)  
[Derive](#) | [Aliquot](#) | [Events](#)

[SPECIMEN ARRAY](#)  
[Add](#)  
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[DISTRIBUTION](#)  
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QUICK LINKS

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[SITE HOME](#)

\* indicates a required field

## ADD PARTICIPANT

Last Name	<input type="text" value="Zin"/>
First Name	<input type="text" value="Dr"/>
Middle Name	<input type="text"/>
Birth Date	<input type="text" value="05/05/15"/> [MM-DD-YYYY or MM/DD/YYYY]
Vital Status	<input type="radio"/> Alive <input type="radio"/> Dead <input checked="" type="radio"/> Unknown <input type="radio"/> Unspecified
Death Date	<input type="text"/> [MM-DD-YYYY or MM/DD/YYYY]
Gender	<input type="radio"/> Female <input checked="" type="radio"/> Male <input type="radio"/> Unknown <input type="radio"/> Unspecified
Sex Genotype	<input type="text" value="Unknown"/>
Race	<input type="text" value="Asian"/>
Ethnicity	<input type="text" value="Not Reported"/>

- Select --
- Children's Memorial Hospital
- ENH
- NMFF
- ✓ NMH
- Rehab Institute

#	Participant Record Number	Delete?
1	<input type="text" value="1212"/>	<input type="checkbox"/>

# Submit and register



[Collection Protocol Based View](#)

[PARTICIPANT](#)

[Add](#) | [Edit](#)

[PARTICIPANT REGISTRATION](#)

[Add](#) | [Edit](#)

[SPECIMEN COLLECTION GROUP](#)

[Add](#) | [Edit](#)

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[DISTRIBUTION](#)

[Add](#)

[Specimen Report](#) | [Array Report](#)

QUICK LINKS

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[SITE HOME](#)

\* indicates a required field

## ADD PARTICIPANT

Last Name	<input type="text" value="Zin"/>
First Name	<input type="text" value="Dr"/>
Middle Name	<input type="text"/>
Birth Date	<input type="text" value="05/05/1915"/> [MM-DD-YYYY or MM/DD/YYYY]
Vital Status	<input type="radio"/> Alive <input type="radio"/> Dead <input checked="" type="radio"/> Unknown <input type="radio"/> Unspecified
Death Date	<input type="text"/> [MM-DD-YYYY or MM/DD/YYYY]
Gender	<input type="radio"/> Female <input checked="" type="radio"/> Male <input type="radio"/> Unknown <input type="radio"/> Unspecified
Sex Genotype	<input type="text" value="Unknown"/>
Race	<input type="text" value="Asian"/> American Indian or Alaska Native Asian Black or African American Native Hawaiian or Other Pacific Islander
Ethnicity	<input type="text" value="Not Reported"/>
Social Security Number (SSN)	<input type="text" value=""/> - <input type="text" value=""/> - <input type="text" value=""/>

## MEDICAL IDENTIFIER(S)

[Add More](#)

[Delete](#)

#	Source	Medical Record Number	Delete?
1.	<input type="text" value="NMH"/>	<input type="text" value="0128-5551212"/>	<input type="checkbox"/>

[Submit](#)

[Register to Protocol](#)

[Submit and Register to protocol](#)

# Add Registration Information

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[Sign Out](#)

- [Participant successfully created for Zin,Dr.](#)

\* indicates a required field

ADD PARTICIPANT REGISTRATION	
* <b>Collection Protocol</b>	<input type="text" value="-- Select --"/> <a href="#">Add New</a>
Participant Name	<input type="text" value="Zin,Dr"/> <a href="#">Add New</a>
Participant Protocol ID	<input type="text"/>
* <b>Registration Date</b>	<input type="text" value="12-01-2007"/> [MM-DD-YYYY or MM/DD/YYYY]

[Collection Protocol Based View](#)

**PARTICIPANT**

[Add](#) | [Edit](#)

**PARTICIPANT REGISTRATION**

[Add](#) | [Edit](#)

**SPECIMEN COLLECTION GROUP**

[Add](#) | [Edit](#)

**SPECIMEN**

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**SPECIMEN ARRAY**

[Add](#)  
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**DISTRIBUTION**

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**QUICK LINKS**

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# Select Collection Protocol



- Participant successfully created for Zin,Dr.

\* indicates a required field

ADD PARTICIPANT REGISTRATION	
* Collection Protocol	IPBS <input type="button" value="Add New"/>
Participant Name	Zin,Dr <input type="button" value="Add New"/>
Participant Protocol ID	123
* Registration Date	12-01-2007 <input type="button" value="Calendar"/> [MM-DD-YYYY or MM/DD/YYYY]

- Collection Protocol Based View
- PARTICIPANT [Add](#) | [Edit](#)
- PARTICIPANT REGISTRATION [Add](#) | [Edit](#)
- SPECIMEN COLLECTION GROUP [Add](#) | [Edit](#)
- SPECIMEN [Add: Single](#) | [Multiple](#) | [Edit](#) | [Derive](#) | [Aliquot](#) | [Events](#)
- SPECIMEN ARRAY [Add](#) | [Edit](#) | [Aliquot](#)
- DISTRIBUTION [Add](#) | [Specimen Report](#) | [Array Report](#)
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# Add Specimen Collection Group



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[PARTICIPANT](#)

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[SPECIMEN](#)

[Add](#) | [Single](#) | [Multiple](#) | [Edit](#)

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- Collection Protocol Registration successfully created for IPBS Zin,Dr.

\* indicates a required field

## ADD SPECIMEN COLLECTION GROUP

* Collection Protocol Title	IPBS	<a href="#">Add New</a>
* Site	-- Select --	<a href="#">Add New</a>
<input checked="" type="radio"/> Participant	Zin, Dr, 1915-05-05	<a href="#">Add New</a>
<input type="radio"/> Protocol Participant Identifier	-- Select --	<a href="#">Add New</a>
* Specimen Group Name	IPBS_12_9 <a href="#">Reset Name</a>	
* Study Calendar Event Point	-- Select --	<a href="#">Days</a>
* Clinical Diagnosis	Not Specified	<a href="#">E</a>
* Clinical Status	Not Specified	
Medical Record Number	-- Select --	
Surgical pathology number		

[Submit](#)

[Add Specimen](#)

[Add Multiple Specimens](#)

# Specimen Collection Site

OBBR Office of Biorepositories and Biospecimen Research



caBIG

cancer Biomedical Informatics Grid

ROBERT H. LURIE COMPREHENSIVE CANCER CENTER OF NORTHWESTERN UNIVERSITY

101505



caTISSUE Core

HOME ADMINISTRATIVE DATA BIO-SPECIMEN DATA SEARCH SUMMARY HELP Sign Out

- Collection Protocol Registration successfully created for IPBS Zin,Dr.

\* indicates a required field

## ADD SPECIMEN COLLECTION GROUP

* Collection Protocol Title	IPBS	<a href="#">Add New</a>
* Site	<input checked="" type="checkbox"/> -- Select -- Children's Memorial Hospital ENH NMFF NMH Rehab Institute	<a href="#">Add New</a>
<input checked="" type="radio"/> Participant		<a href="#">Add New</a>
<input type="radio"/> Protocol Participant Identifier		<a href="#">Add New</a>
* Specimen Group Name		
* Study Calendar Event Point	-- Select --	<a href="#">Add New</a> Days
* Clinical Diagnosis	Not Specified	<a href="#">Add New</a> E
* Clinical Status	Not Specified	<a href="#">Add New</a>
Medical Record Number	-- Select --	<a href="#">Add New</a>
Surgical pathology number		

Collection Site

Submit Add Specimen Add Multiple Specimens

# Select event point in protocol



Collection Protocol Based View

PARTICIPANT  
[Add](#) | [Edit](#)

PARTICIPANT REGISTRATION  
[Add](#) | [Edit](#)

SPECIMEN COLLECTION GROUP  
[Add](#) | [Edit](#)

SPECIMEN  
[Add](#) | [Single](#) | [Multiple](#) | [Edit](#)  
[Derive](#) | [Aliquot](#) | [Events](#)

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\* indicates a required field

## ADD SPECIMEN COLLECTION GROUP

* Collection Protocol Title	IPBS	<a href="#">Add New</a>
* Site	NMH	<a href="#">Add New</a>
<input checked="" type="radio"/> Participant	Zin, Dr, 1915-05-05	<a href="#">Add New</a>
<input type="radio"/> Protocol Participant Identifier	-- Select --	<a href="#">Add New</a>
* Specimen Group Name	IPBS_12_9 -- Select --	
* Study Calendar Event Point	✓ 1.0	<a href="#">Days</a>
* Clinical Diagnosis	Not Specified	<a href="#">E</a>
* Clinical Status	Post-Operative	
Medical Record Number	-- Select --	
Surgical pathology number		

[Submit](#) [Add Specimen](#) [Add Multiple Specimens](#)

# Ready to submit

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[Add](#) | [Edit](#)

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[Add](#) | [Edit](#)

[SPECIMEN](#)  
[Add](#) | [Single](#) | [Multiple](#) | [Edit](#)  
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\* indicates a required field

ADD SPECIMEN COLLECTION GROUP	
* Collection Protocol Title	IPBS <input type="button" value="Add New"/>
* Site	NMH <input type="button" value="Add New"/>
<input checked="" type="radio"/> Participant	Zin, Dr, 1915-05-05 <input type="button" value="Add New"/>
<input type="radio"/> Protocol Participant Identifier	-- Select -- <input type="button" value="Add New"/>
* Specimen Group Name	IPBS_12_9 <a href="#">Reset Name</a>
* Study Calendar Event Point	1.0 <input type="button" value="Days"/>
* Clinical Diagnosis	Serous cystadenocarcinoma, NOS <input type="button" value="E"/>
* Clinical Status	Post-Operative <input type="button" value="Add New"/>
Medical Record Number	0128-5551212 <input type="button" value="Add New"/>
Surgical pathology number	this is a test

# Next add specimen information



- Collection Protocol Based View
- PARTICIPANT  
[Add](#) | [Edit](#)
- PARTICIPANT REGISTRATION  
[Add](#) | [Edit](#)
- SPECIMEN COLLECTION GROUP  
[Add](#) | [Edit](#)
- SPECIMEN  
[Add](#): [Single](#) | [Multiple](#) | [Edit](#)  
[Derive](#) | [Aliquot](#) | [Events](#)
- SPECIMEN ARRAY  
[Add](#)  
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- DISTRIBUTION  
[Add](#)  
[Specimen Report](#) | [Array Report](#)
- QUICK LINKS
- [caBIG HOME](#)
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\* indicates a required field

ADD SPECIMEN			
* Specimen Group Name	IPBS_11_7	<a href="#">Add New</a>	
* Label	new collection	Barcode	
* Class	Tissue	* Type	-- Select --
* Tissue Site	Not Specified	* Tissue Side	Not Specified
* Pathological Status	Not Specified		
* Initial Quantity	0 gm	Concentration	µg/µl
* Storage Position	<input checked="" type="radio"/> Is Virtually Located? <input type="radio"/> Name: --- Pos1: --- Pos2: --- <input type="radio"/> <input type="text"/> <input type="text"/> <input type="text"/> <a href="#">MAP</a>		
Comments	<input type="text"/>		

COLLECTED EVENT		RECEIVED EVENT	
* Collector	Kibbe, Warren	* Receiver	Fu, Dong
* Date	12-01-2007 [MM-DD-YYYY]	* Date	12-01-2007 [MM-DD-YYYY]
* Time	23 Hr 38 Min	* Time	23 Hr 38 Min
* Procedure	Needle Core Biopsy	* Quality	Not Specified
* Container	Citrate Vacutainer	Comments	<input type="text"/>
Comments	<input type="text"/>	Comments	<input type="text"/>

EXTERNAL IDENTIFIER(S) <a href="#">Add More</a> <a href="#">Delete</a>		
#	Name	Value
1.	<input type="text"/>	<input type="text"/>
		<input type="checkbox"/>

BIOHAZARD(S) <a href="#">Add More</a> <a href="#">Delete</a>		
#	Type	Name
1.	-- Select --	-- Select --
		<input type="checkbox"/>

Do you want to create aliquot(s)?

[Submit](#) [Derive](#) [More](#) [Distribute](#)

# Specimen added



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Collection Protocol Based View

PARTICIPANT

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SPECIMEN COLLECTION GROUP

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Specimen Details Events View Surgical Pathology Report View Clinical Annotation

- [Specimen successfully created for new collection.](#)

\* indicates a required field

## EDIT SPECIMEN

* Specimen Group Name	IPBS_11_7 <input type="button" value="Add New"/>	* Lineage	<input type="text"/>
* Label	new collection	Barcode	<input type="text"/>
* Class	Tissue	* Type	Frozen Tissue
* Tissue Site	Not Specified <input type="button" value="E"/>	* Tissue Side	Not Applicable
* Pathological Status	Not Specified	* Activity Status	Active
* Initial Quantity	3 gm	Concentration	<input type="text"/> µg/µl
Is Available?	<input type="checkbox"/>	Available Quantity	3.0 gm
* Storage Position	Specimen is virtually Located		
Comments	<input type="text"/>		

## EXTERNAL IDENTIFIER(S)

[Add More](#)

[Delete](#)

#	Name	Value	Delete?
1.	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

## BIOHAZARD(S)

[Add More](#)

[Delete](#)

#	Type	Name	Delete?
1.	-- Select --	-- Select --	<input type="checkbox"/>

Do you want to create aliquot(s)?

[Submit](#)

[Derive](#)

[More](#)

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# Select the specimen event



- Collection Protocol Based View
- PARTICIPANT  
Add | Edit
- PARTICIPANT REGISTRATION  
Add | Edit
- SPECIMEN COLLECTION GROUP  
Add | Edit
- SPECIMEN  
Add: Single | Multiple | Edit  
Denies | Aliquot | Events
- SPECIMEN ARRAY  
Add  
Edit | Aliquot
- DISTRIBUTION  
Add  
Specimen Report | Array Report
- QUICK LINKS
- caBIG HOME
- NCICB HOME
- SITE HOME

- Specimen successfully updated for new collection.

Specimen Details Events Surgical Pathology Report Clinical Annotations

### Existing events for this specimen

Identifier	Event Parameter	User	Date / Time
36	Received Event	Fu Dong	12-01-2007 23:38
35	Collection	Kibbe Warren	12-01-2007 23:38

### Add New Specimen Event

- Select new event:  -- Select --
- Cell Specimen Review
  - Check In Check Out
  - Collection
  - Disposal
  - Embedded
  - Fixed
  - Fluid Specimen Review
  - Frozen
  - Molecular Specimen Review
  - Procedure
  - Received
  - Spin

# Entering the event information

## Add New Specimen Event

Select new event:

\* indicates a required field

NEW FROZEN EVENT PARAMETERS	
* User	<input type="text" value="Fu, Dong"/>
* Date	<input type="text" value="12-01-2007"/>  [MM-DD-YYYY or MM/DD/YYYY]
* Time	<input type="text" value="23"/> Hr <input type="text" value="43"/> Min
* Method	<input type="text" value="Not Specified"/>
Comments	<input type="text"/>

Submit

# Viewing specimen events

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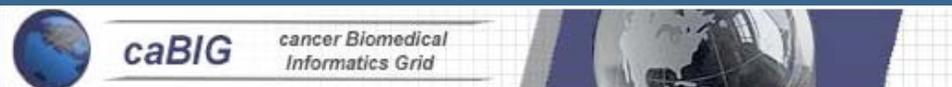
## Existing events for this specimen

Identifier	Event Parameter	User	Date / Time
35	Collection	Kibbe Warren	12-01-2007 23:38
36	Received Event	Fu Dong	12-01-2007 23:38
37	Frozen	Fu Dong	12-01-2007 23:43

## Add New Specimen Event

Select new event:

# View the collection groups for a protocol



## SPECIMEN COLLECTION GROUP SEARCH RESULT

Search Results

100 Records Per Page

Showing Results 1 - 8 of 8

1

Name : Specimen Collection Group	Participant Last Name : Specimen Collection Group	Study Calendar Event Point : Specimen Collection Group	Medical Record Number : Specimen Collection Group	Clinical Status : Specimen Collection Group	Surgical Pathology Number : Specimen Collection Group	Clinical Diagnosis : Specimen Collection Group	Protocol Participant Identifier : Specimen Collection Group	Identifi- Speci Collection
IPBS_2_1	Doe	1.0	2	Post-Operative	S09-21-2006	Mixed tumor malign	1001	1
IPBS_3_2	Doe	1.0	3	Post-Operative	S06-07-2006	Malignant tumor s	1003	2
IPBS_3_3	Doe	1.0	3	Post-Operative	S06-07-2006	Malignant tumor s	1003	3
IPBS_4_4	Gleason	1.0	4	Post-Operative	2005-07-24335	Not Specified		4
IPBS_6_5	Quest	1.0	6	Post-Operative	2006-11-00294	Not Specified		5
IPBS_5_6	Rodriguez	1.0		Post-Operative		Melanotic neurofil	1005	6
IPBS_11_7	Bannon	1.0	11	Post-Operative	2006-0500123	Not Specified		7
IPBS_9_8	Rousey	1.0		New Diagnosis		Olfactory neuroge	1005	8



# Add a specimen array (TMA)



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SITE  
[Add](#) | [Edit](#)

STORAGE TYPE  
[Add](#) | [Edit](#)

STORAGE CONTAINER  
[Add](#) | [Edit](#) | [View Map](#)

SPECIMEN ARRAY TYPE  
[Add](#) | [Edit](#)

BIOHAZARD  
[Add](#) | [Edit](#)

COLLECTION PROTOCOL  
[Add](#) | [Edit](#)

DISTRIBUTION PROTOCOL  
[Add](#) | [Edit](#)

REPORTED PROBLEMS  
[View](#)

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\* indicates a required field

## EDIT SPECIMEN ARRAY TYPE

* Name	<input type="text" value="TMA1"/>
* Specimen Class	<input type="text" value="Tissue"/>
* Specimen Type	<input type="text" value="Fresh Tissue&lt;br/&gt;Frozen Tissue Slide&lt;br/&gt;Fixed Tissue Slide&lt;br/&gt;Frozen Tissue Block"/>
Comments	<input type="text"/>
<b>Capacity</b>	
* Dimension One	<input type="text" value="12"/>
Dimension Two	<input type="text" value="14"/>

Submit





## Conclusion

- caTissue can support many typical workflows 'out of the box'
- caTissue supports good security practices, including CFR Title 21 Part 11 compliance
- Barcode-based tracking is available, but still a second class citizen
- All data elements are mapped to CDEs
- Interoperability is a huge plus

# Add a Specimen Collection Group

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HOME ADMINISTRATIVE DATA **BIO-SPECIMEN DATA** SEARCH SUMMARY HELP

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[Collection Protocol Based View](#)

**PARTICIPANT**  
[Add](#) | [Edit](#)

**PARTICIPANT REGISTRATION**  
[Add](#) | [Edit](#)

**SPECIMEN COLLECTION GROUP**  
[Add](#) | [Edit](#)

**SPECIMEN**  
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[Derive](#) | [Aliquot](#) | [Events](#)

**SPECIMEN ARRAY**  
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**DISTRIBUTION**  
[Add](#)  
[Specimen Report](#) | [Array Report](#)

**QUICK LINKS**

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\* indicates a required field

ADD SPECIMEN COLLECTION GROUP	
* <b>Collection Protocol Title</b>	<input type="text" value="-- Select --"/> <a href="#">Add New</a>
* <b>Site</b>	<input type="text" value="-- Select --"/> <a href="#">Add New</a>
<input checked="" type="radio"/> <b>Participant</b>	<input type="text" value="-- Select --"/> <a href="#">Add New</a>
<input type="radio"/> <b>Protocol Participant Identifier</b>	<input type="text" value="-- Select --"/> <a href="#">Add New</a>
* <b>Specimen Group Name</b>	<input type="text"/> <a href="#">Reset Name</a>
* <b>Study Calendar Event Point</b>	<input type="text" value="-- Select --"/> Days
* <b>Clinical Diagnosis</b>	<input type="text" value="Not Specified"/> <a href="#">E</a>
* <b>Clinical Status</b>	<input type="text" value="Not Specified"/>
Medical Record Number	<input type="text" value="-- Select --"/>
Surgical pathology number	<input type="text"/>

[Submit](#) [Add Specimen](#) [Add Multiple Specimens](#)

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FIRSTGOV

# Add Specimen



- Collection Protocol Based View
- PARTICIPANT  
Add | Edit
- PARTICIPANT REGISTRATION  
Add | Edit
- SPECIMEN COLLECTION GROUP  
Add | Edit
- SPECIMEN  
Add: Single | Multiple | Edit  
Derive | Aliquot | Events
- SPECIMEN ARRAY  
Add  
Edit | Aliquot
- DISTRIBUTION  
Add  
Specimen Report | Array Report
- QUICK LINKS
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\* indicates a required field

### ADD SPECIMEN

* Specimen Group Name	-- Select --	<a href="#">Add New</a>
* Label	<input type="text"/>	Barcode <input type="text"/>
* Class	Tissue	* Type -- Select --
* Tissue Site	Not Specified	* Tissue Side Not Specified
* Pathological Status	Not Specified	
* Initial Quantity	0	Concentration <input type="text"/> µg/µl
* Storage Position	<input checked="" type="radio"/> Is Virtually Located? <input type="radio"/> Name -- Pos1 -- Pos2 -- <input type="text"/> <input type="text"/> <input type="text"/> <input type="button" value="MAP"/>	
Comments	<input type="text"/>	

COLLECTED EVENT	RECEIVED EVENT
* Collector Fu, Dong	* Receiver Fu, Dong
* Date 12-01-2007 [MM-DD-YYYY]	* Date 12-01-2007 [MM-DD-YYYY]
* Time 10 Hr 16 Min	* Time 10 Hr 16 Min
* Procedure Not Specified	* Quality Not Specified
* Container Not Specified	
Comments <input type="text"/>	Comments <input type="text"/>

### EXTERNAL IDENTIFIER(S)

[Add More](#)

#	Name	Value	Delete?
1.	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>

### BIOHAZARD(S)

[Add More](#)

#	Type	Name	Delete?
1.	-- Select --	-- Select --	<input type="checkbox"/>

Do you want to create aliquot(s)?

# Specimen Search Result (right side)

- [Collection Protocol Based View](#)
- [PARTICIPANT](#)  
[Add](#) | [Edit](#)
- [PARTICIPANT REGISTRATION](#)  
[Add](#) | [Edit](#)
- [SPECIMEN COLLECTION GROUP](#)  
[Add](#) | [Edit](#)
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SPECIMEN SEARCH RESULT											
Search Results											
100 Records Per Page								Showing Results 1 - 12 of 12		1	
Available Quantity : Specimen	Is Available : Specimen	Tissue Side : Specimen	Class : Specimen	Initial Quantity : Specimen	Pathological Status : Specimen	Tissue Site : Specimen	Identifier : Specimen	Barcode : Specimen	Type : Specimen	Lineage : Specimen	
20.0	<input type="checkbox"/>	Not Specified	Tissue	20.0	Not Specified	PROSTATE GLAND	2	1	Fixed Tissue	New	
9990.0	<input type="checkbox"/>	Right	Cell	10000.0	Metastatic	PROSTATE GLAND	1	1111	Frozen Cell Block	New	
1000.0	<input type="checkbox"/>	Not Specified	Cell	1000.0	Not Specified	Prostate gland	3		Fixed Cell Block	New	
40.0	<input type="checkbox"/>	Not Specified	Fluid	40.0	Not Specified	Blood	4	3	Serum	New	
9988.0	<input type="checkbox"/>	Not Specified	Cell	10000.0	Malignant	PROSTATE GLAND	5	31	Fixed Cell Block	New	
40.0	<input type="checkbox"/>	Right	Tissue	60.0	Metastatic	Prostate gland	6	32	Fixed Tissue	New	
37.0	<input type="checkbox"/>	Left	Molecular	60.0	Not Specified	Prostate gland	7	33	DNA	New	
40.0	<input type="checkbox"/>	Not Applicable	Fluid	40.0	Malignant Invasiv	Blood	8		Serum	New	
10000.0	<input type="checkbox"/>	Not Applicable	Fluid	10000.0	Malignant Invasiv	Blood	9		Plasma	Derived	
0.0	<input type="checkbox"/>	Left	Tissue	0.0	Metastatic	Nervous system NOS	11		Fixed Tissue Slide	New	
12.0	<input type="checkbox"/>	Not Specified	Tissue	12.0	Pre-Malignant	PROSTATE GLAND	10	000498	Frozen Tissue	New	
35.0	<input type="checkbox"/>	Not Specified	Tissue	35.0	Not Specified	PROSTATE GLAND	12		Fixed Tissue Bloc	New	

# Specimen Search Result

<a href="#">HOME</a>   <a href="#">ADMINISTRATIVE DATA</a>   <a href="#">BIO-SPECIMEN DATA</a>   <a href="#">SEARCH</a>   <a href="#">SUMMARY</a>   <a href="#">HELP</a> <span style="float: right;"><a href="#">Sign Out</a></span>													
SPECIMEN SEARCH RESULT													
Search Results <span style="float: right;">Showing Results 1 - 12 of 12</span>													
Label : Specimen	Position Dimension Two : Specimen	External Identifier Value : Specimen	Parent Specimen Identifier : Specimen	Concentration : Specimen	Position Dimension One : Specimen	External Identifier Name : Specimen	Specimen Collection Group Identifier : Specimen	Available Quantity : Specimen	Is Available : Specimen	Tissue Side : Specimen	Class : Specimen	Initial Quantity : Specimen	Pathological Status : Specimen
1	1				1		1	20.0	<input type="checkbox"/>	Not Specified	Tissue	20.0	Not Specified
1001							1	9990.0	<input type="checkbox"/>	Right	Cell	10000.0	Metastatic
2	1				2		1	1000.0	<input type="checkbox"/>	Not Specified	Cell	1000.0	Not Specified
3	1				3		1	40.0	<input type="checkbox"/>	Not Specified	Fluid	40.0	Not Specified
31	1				1		3	9988.0	<input type="checkbox"/>	Not Specified	Cell	10000.0	Malignant
32	1				2		3	40.0	<input type="checkbox"/>	Right	Tissue	60.0	Metastatic
33	1				3		3	37.0	<input type="checkbox"/>	Left	Molecular	60.0	Not Specified
34	1				4		3	40.0	<input type="checkbox"/>	Not Applicable	Fluid	40.0	Malignant Invasiv
34-1	2		8		1		3	10000.0	<input type="checkbox"/>	Not Applicable	Fluid	10000.0	Malignant Invasiv
ENH1005A	4				1		6	0.0	<input type="checkbox"/>	Left	Tissue	0.0	Metastatic
prostate	3				1		5	12.0	<input type="checkbox"/>	Not Specified	Tissue	12.0	Pre-Malignant
prostate123							7	35.0	<input type="checkbox"/>	Not Specified	Tissue	35.0	Not Specified

# Sample Search Builder

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**SIMPLE SEARCH** Add More

#	Delete?	Object	Attribute	Condition	Value	Operator
1.	<input type="checkbox"/>	✓ -- Select -- Biohazard Cancer Research Group Cell Specimen Review Parameters Checkin Checkout Event Parameter Collection Event Parameters Collection Protocol Collection Protocol Registration Department Disposal Event Parameters Distribution Distribution Protocol Distribution_array Embedded Event Parameters Fixed Event Parameters Fluid Specimen Review Event Parameters Frozen Event Parameters Institution Molecular Specimen Review Parameters Participant Procedure Event Parameters Received Event Parameters Reported Problem Site Specimen Specimen Array Specimen Array Type Specimen Collection Group Spun Event Parameters Storage Container Storage Type		Starts With		AND





# Advanced Search options

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- Specimen

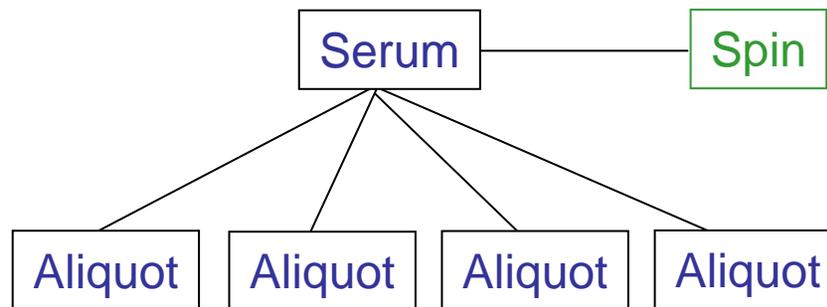
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# Instance diagram - Serum aliquots

Specimen

Event

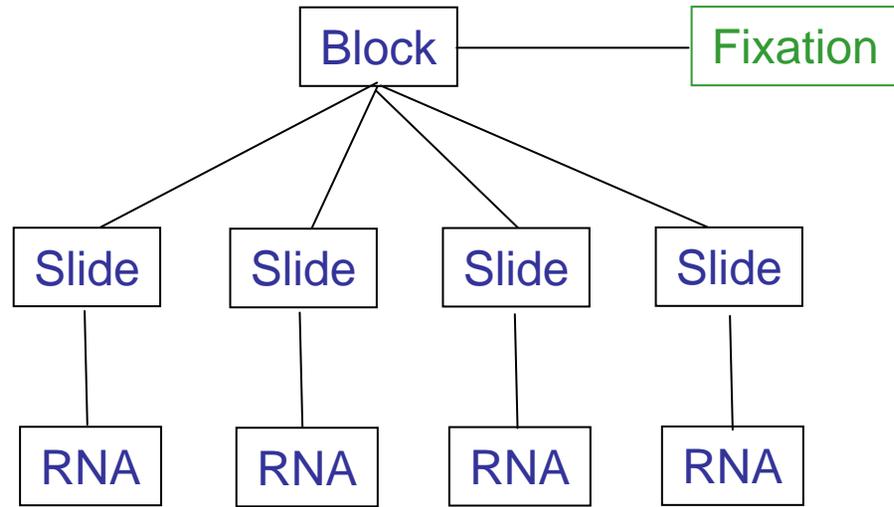




# Instance diagram - Laser capture microdissection

Specimen

Event





# Instance diagram - events

Specimen

Event

