

Spring Cleaning

2024 Sample Manager User Conference
Lance Ludwick (He/Him)

Sample Manager Support

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New projects, lab, or users?

Questions or feedback?

Introduction

Lance Ludwick

- ▶ Help new and existing customers with all things Sample Manager
- ▶ Worked at a zoo, emergency veterinary clinic, human organ and tissue donation
- ▶ Recorded samples using pen and paper, Excel, LIMS, combination of all three

Archive Project

Organize/dispose 100K+ samples

- ▶ 2007-2023
- ▶ Used: 3 different LIMS, spreadsheets, written records

Archive Project Challenges



Missing Data

- ▶ Each set of data had different data fields, but not the whole picture
- ▶ Had to cross reference data multiple times
- ▶ Missing source information

Always Moving

- ▶ Sample location was not indicated
- ▶ Freezers were constantly changing with no record of where they went
- ▶ Had 16 freezers in five rooms in 2 labs

Not Queryable

- ▶ Could not easily pull a list of samples needing to dispose
- ▶ Difficult to track which samples had been disposed of

How Sample Manager Could Help



Missing Data

- ▶ Capture as much or as little data
- ▶ Link samples to source
- ▶ Centralize Data
- ▶ Register samples without it impacting existing data

Always Moving

- ▶ Move entire racks/freezers of samples to a new location
- ▶ Audit sample locations
- ▶ Indicate exactly which lab or room the samples are in

Not Queryable

- ▶ Search for samples based on specific data
- ▶ Keep track of sample life cycle

Data Organization



Organize Data by Levels - We Can Help!



Source

Information to discard all samples from a source (deconsent, inactive, cancelled)

Lineage

Assay

Thresholds for test results to indicate if a sample can be disposed of

Quality control

Sample

Expiration dates or dates to discard

Volume of what remains

Sample quality

Audit log

Sample centric, specific location, and system wide

Track all changes and their reasons

Sample Finder

Sample Finder

Select Sample Source Properties

Sources

- Patient** 1
- Recipient

Fields

- Source ID
- Donor Status**
- Denial Reason
- Donation Date

Values

FILTER | **CHOOSE VALUES**

Find values for Donor Status

- [All]
- [blank]
- Both
- Non-Donor
- Organ
- Tissue

Selected

- Non-Donor

Saved Searches ▾ **Save Search**

MOST RECENT SEARCH

Searched 2024-03-12 13:44

NO SAVED SEARCH

OTHER REPORTS

- All Samples Created by Me
- All Samples Created by Other Users
- All Samples Created in the Last 7 Days
- Samples Expiring in the Next 7 Days**
- Samples with Fewer than 5 Aliquots Available

Source
Donor



DONOR STATUS Non-Donor

All Samples (522)

Blood (522)

Add ▾

Edit ▾

Derive ▾

Assay ▾

Picklists ▾

Jobs ▾

More ▾

Filters



Search...

1 - 20 of 522



1 ▾



Select all 522

<input type="checkbox"/> Sample ID	<input type="checkbox"/> Ilection Date	<input type="checkbox"/> Material	<input type="checkbox"/> Amount	<input type="checkbox"/> Units	<input type="checkbox"/> Storage Status	<input type="checkbox"/> Checked Out By	<input type="checkbox"/> Storage Location
<input type="checkbox"/> S-3037		Serum		mL	In storage		Bio Repository / Bag #3
<input type="checkbox"/> S-3032		Serum		mL	In storage		Bio Repository / Bag #3
<input type="checkbox"/> S-3030		Serum		mL	In storage		Reference Laboratory / Bag #1
<input type="checkbox"/> S-3022		Serum		mL	In storage		Bio Repository / Bag #2

Freezer Maintenance





Sample Management

- ▶ Use barcodes and print labels from Sample Manager
- ▶ Cover labels in clear tape
- ▶ Enforce comments when working with samples

Audit Logging

Would you like to require that users provide a reason before completing certain actions? 

No, reasons are optional.

Users will see the reasons field but can leave it blank.

Yes, reasons are required.

Users must enter a reason for any of these actions.



Sample Management

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Sample Management

- ▶ Use barcodes and print labels from Sample Manager
- ▶ Cover labels in clear tape
- ▶ Enforce comments when working with samples
- ▶ Use picklists

<input type="checkbox"/> Sample ID	<input type="checkbox"/> Storage Location	<input type="checkbox"/> Storage Row	<input type="checkbox"/> Storage Col
<input type="checkbox"/> Blood-10260	Seattle / SLU Building / LabKey -80C Freezer 2 / Shelf #1 / Rack #1 / Box #1 (006213)	A	1
<input type="checkbox"/> Blood-10244	Seattle / SLU Building / LabKey -80C Freezer 2 / Shelf #1 / Rack #1 / Box #1 (006213)	A	9
<input type="checkbox"/> Blood-1001-A	Seattle / LabKey -80C Freezer 1 / Shelf #1 / Rack #1 / New Box	A	2




Sample Management

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Freezer Management

- ▶ Don't block the fans
- ▶ Should defrost a freezer at least once a year
- ▶ Use freezer statuses



LabKey -80C Freezer 1

Seattle

[Details](#)

Active ▾

- Active
- Defrosting
- Backup



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Move Shelf #1 ✕

All sub-units of this storage unit will also be moved to the new location.

To move this storage unit, select a target location below.

San Diego / Building #1 Bench XYZ	
Seattle LabKey -80C Freezer 1	▼
Hannah Rack	
Shelf #1 Blood shelf	i
Shelf #2	>
Shelf #3	>

Cancel Move Here

Freezer Management

- ▶ Don't block the fans
- ▶ Should defrost a freezer at least once a year
- ▶ Use freezer statuses
- ▶ Move entire racks or shelves



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- ▶ Don't block the fans
- ▶ Should defrost a freezer at least once a year
- ▶ Use freezer statuses
- ▶ Move entire racks or shelves
- ▶ Use dry ice

Disposal Process



Organize Data

Structure data in a way to indicate whether or not a sample or group of samples should be disposed of

Query Data

Search for samples based on their data using Sample Finder

Maintain Samples and Freezers

Periodically dispose of samples no longer needed.

Follow freezer manufacturer guidelines

Sample Manager Support

help@labkey.com

How to learn more:

- ▶ [Email Us](#)
- ▶ [Blog](#)
- ▶ [YouTube Playlist](#)
- ▶ [Support Docs](#)
- ▶ [Schedule a Meeting](#)

Questions?

