

Rho Labkey for Collection of Mechanistic Assay Data and Visualization of Clinical-Assay Data

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Sr. Laboratory Project Manager

LabKey User Conference
Seattle, WA

Rho LabKey

- Objectives
 - Replace current assay data transfer process
 - Couple assay-specimen-clinical data
 - Provide real-time QC
 - Provide assay-clinical data visualization
 - Provide repository for merged assay-clinical data

Current Status

- Specimen tracking data is auto-loaded nightly
- Customized lab data import modules complete:
 - Lab uploads formatted for cumulative or incremental transfers with downloadable templates
 - Data is QCed against sample minded data in real-time
 - Labkey immediately reports discrepancies requiring resolution in listing and heat map
 - Specimen status summarized in “consort diagram”
 - Lab data not “published” until all queries resolved
 - All uploaded versions maintained as an audit trail

Current Status (cont.)

- Data visualization features include:
 - Labs can easily see what data issues there are in their specimen inventory that need their attention
 - Lab assay data can be filtered, sorted and viewed in charts and figures, and many are interactive
 - Example clinical data can be merged and visualized in a variety of exploratory data analysis formats

Firefox Rho LabKey Server: /home
 https://rhoworld.com/labkey/project/home/begin.view? Search Rho LabKey Server Admin | Help | amy_tsay@rhoworld.com

Rho LabKey Server

PROJECT FOLDERS: Home, support

PROJECTS: Home, CTOT, CTOTC, Shared

Home, Permanent Link, Support, Help

Home Rho LabKey Server

Projects ↑ ↓ ×

CTOT CTOTC

CREATE NEW PROJECT

Messages ↑ ↓ ×

NEW Showing: all messages

Agenda - 06 November 2012 kristinf@labkey.com 2012-11-06 15:14

- Troubleshoot any further assay setup/progress report issues
- Review feature summaries/proposals
- Review results of yesterday's lab call
- Discuss any additional work needed to prepare for Friday's demo

VIEW MESSAGE OR RESPOND >

Agenda - 30 October 2012 kristinf@labkey.com 2012-10-30 15:15

- Feature summaries for May-November 2012, December 2012-January 2013, February 2013-January 2014
- Dev work confirmation for November - unscheduled visit bucketing in progress report
- Deployment plans (11/2); will unlock autoloading for CTOTC-04
- Documentation for study/assay setup in progress (walkthrough of assay setup tomorrow w/ Amy)

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Agenda - 09 October 2012 kristinf@labkey.com 2012-10-09 14:57

- Review HLA data posting, folder creation steps, etc.
- Review outward facing design doc (attached here)
- Ops items (install Python 3, upgrade to latest LabKey build)

Rho Project Plan_external.docx

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Useful Links ↓

Lab data upload instructions

<Select Web Part> ADD

CTOTC Studies

PROJECT FOLDERS

- CTOTC
 - CTOTC-03
 - CCF (Farver)
 - MSSM (Heeger)**
 - WUSTL (White)
 - Study Data
 - CTOTC-04

PROJECTS

- Home
- CTOT
- CTOTC
- Shared
- Home
- Permanent Link
- Support
- Help

MSSM (Heeger)

 Assay Dashboard Results

Assay Progress Dashboard

Specimens

566 collections have occurred.

[CTOTC-03 STUDY DATA SPECIMENS](#)
Results

388 results from ELISpot have been uploaded.

Queries

45 ELISpot queries.

Templates

- Default spreadsheet
- Un-assayed specimens

Assay Progress Report

- specimen expected
- specimen collected
- specimen received by lab
- specimen received but invalid
- specimen not collected
- assay results available
- query

 ELISpot

D	Participant	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	999.0	999.0001
	C03001001	<input checked="" type="radio"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C03001002	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C03001003	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C03001004	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C03001005	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C03001006	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C03001007	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	C03001008	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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	A	B	C	D	E	F	G	H	I	J	K
1	ParticipantID	VisitID	Date	DateShipped	DateReceived	ReceivedbyLab	NewEntrybyLab	QueryStatus	WasSpecimenAdequate_	WereCellsViable_Y_N	ViableComm
2	C03002001	999.	2010-06-07 04:00								
3	C03005010	3.	2012-06-19 05:00								
4	C03006001	999.	2009-08-11 05:00								
5	C03300007	0.	2013-01-24 08:00								
6	C03006037	999.	2013-01-17 06:00								
7	C03002003	999.	2013-03-20 04:00								
8	C03005008	4.	2013-01-30 06:00								
9	C03006021	10.	2012-07-23 05:00								
10	C03006032	2.	2012-06-22 05:00								
11	C03002002	999.	2011-05-19 04:00								
12	C03006025	999.	2012-09-25 05:00								
13	C03091005	1.	2013-03-05 05:00								
14	C03091002	11.	2012-08-10 04:00								
15	C03006001	999.	2009-11-10 06:00								
16	C03006033	6.	2012-11-27 06:00								
17	C03300004	9.	2012-11-15 08:00								
18	C03006029	7.	2012-04-02 05:00								
19	C03006032	5.	2012-08-14 05:00								
20	C03006005	11.	2012-02-13 06:00								
21	C03006006	7.	2012-01-26 06:00								
22	C03300006	0.	2012-09-26 07:00								
23	C03002003	999.	2012-12-07 05:00								
24	C03001007	0.	2012-06-06 04:00								
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26	C03300004	999.	2012-05-13 07:00								
27	C03006020	10.	2013-03-12 05:00								
28	C03005010	7.	2012-11-06 06:00								
29	C03006019	11.	2012-08-27 05:00								
30	C03006013	11.	2012-04-30 05:00								
31	C03006019	999.	2011-08-17 05:00								
32	C03300003	999.	2011-05-20 07:00								
33	C03006025	10.	2013-01-16 06:00								
34	C03006004	999.	2009-10-20 05:00								
35	C03091004	999.	2011-09-02 04:00								
36	C03006025	9.	2012-07-17 05:00								
37	C03006032	3.	2012-07-17 05:00								

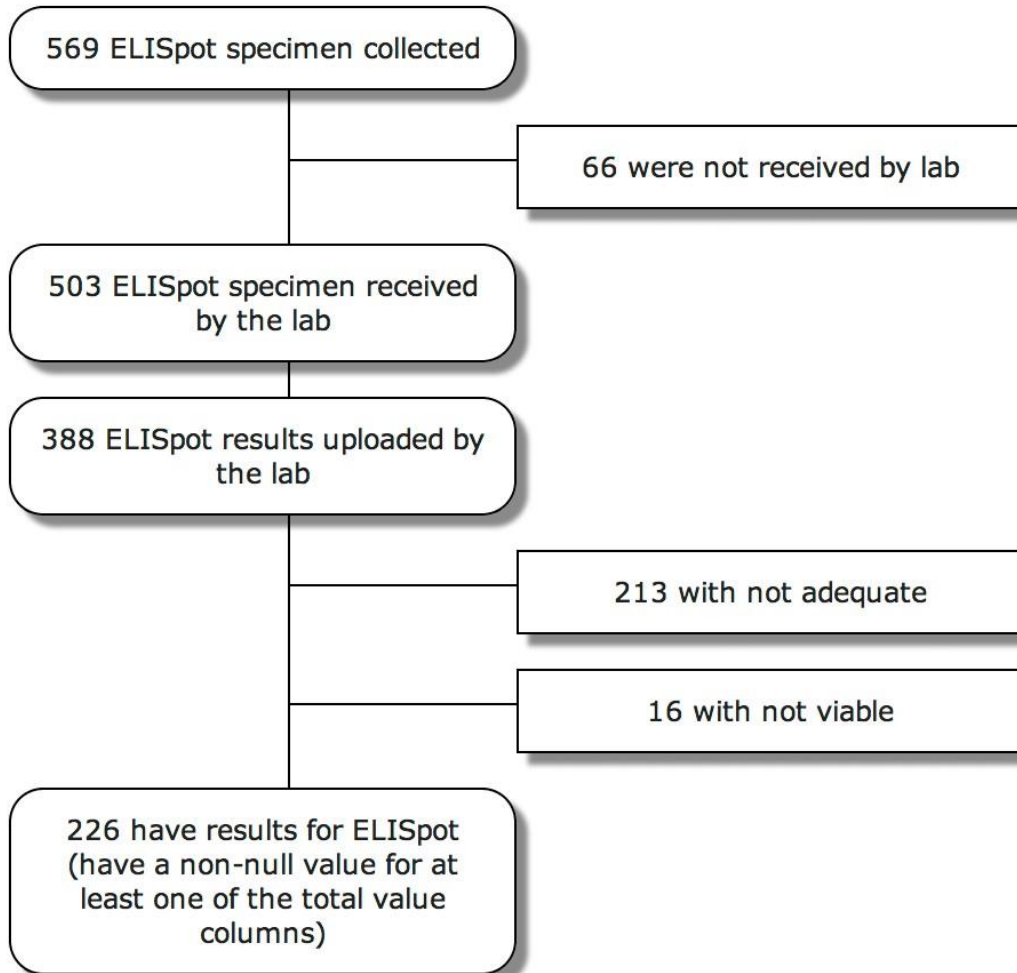
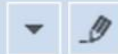
Assay Progress Report

- specimen expected
- specimen received by lab
- specimen not collected
- query
- specimen collected
- specimen received but invalid
- assay results available

ELISpot

D	Participant	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	11.0	999.0	999.0001
	C03001001	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
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ELISpot Specimen Usage Diagram



PROJECT FOLDERS

- CTOTC
 - CTOTC-03
 - CCF (Farver)
 - MSSM (Heeger)**
 - WUSTL (White)
 - Study Data
 - CTOTC-04

PROJECTS

- Home
- CTOT
- CTOTC
- Shared

- Home
- Permanent Link
- Support
- Help

MSSM (Heeger)

[Assay Dashboard](#)

[Results](#)

ELISpot Runs

[MANAGE ASSAY DESIGN](#) |
 [VIEW BATCHES](#) |
 [VIEW RUNS](#) |
 [VIEW RESULTS](#) |
 [VIEW COPY-TO-STUDY HISTORY](#)

VIEWS		CHARTS	EXPORT	PRINT	PAGE SIZE	DELETE	SHOW RESULTS	COPY TO STUDY	IMPORT DATA	RE-IMPORT RUN	REPLACED FILTER
<input type="checkbox"/>	Flag		Assay Id		Created		Created By		Run Groups	Batch	Target Study
<input type="checkbox"/>			Data_2013-01-10_14-38-40.xlsx		2013-01-10 19:21		kristinf@labkey.com			2013-01-10 batch	

ELISpot Results

[MANAGE ASSAY DESIGN](#) |
 [VIEW BATCHES](#) |
 [VIEW RUNS](#) |
 [VIEW RESULTS](#) |
 [VIEW COPY-TO-STUDY HISTORY](#)

VIEWS		CHARTS	EXPORT	PRINT	PAGE SIZE	REPLACED FILTER											1 - 100 of 137 Next >	
View: Good Data													<input type="button" value="X"/>					
<input type="checkbox"/>	Flag	Query Message	ParticipantID	VisitID	Date	Date Shipped	Date Received	Received by Lab	New Entry by Lab	Donor Total (Value)	Donor Specific (Value)	PRT Total (Value)	PRT Specific (Value)	Collagen Total (Value)	Collagen Specific (Value)	a-tubulin Total (Value)	a-tubulin Specific (Value)	
<input type="checkbox"/>			C03001001	0.0	2011-07-27	2011-02-25	YES			13.5	13.0	47.5	47.5	0.0	0.0	25.0	24.5	
<input type="checkbox"/>			C03002001	4.0	2009-12-21	2009-11-16	YES			12.0	10.5	84.5	84.5	0.5	0.0	0.5	0.0	
<input type="checkbox"/>			C03002001	5.0	2009-12-21	2009-11-23	YES			7.0	6.0	64.0	64.0	2.0	0.0	2.0	0.0	
<input type="checkbox"/>			C03002001	7.0	2010-04-19	2010-03-16	YES			15.5	15.0	130.5	130.5	0.0	0.0	1.0	0.5	

- PROJECT FOLDERS
 - CTOTC
 - CTOTC-03
 - CCF (Farver)**
 - MSSM (Heeger)
 - WUSM (Storch)
 - WUSTL (Mohanakumar)
 - WUSTL (White)
 - Study Data
 - CTOTC-04
- PROJECTS
 - Home
 - Permanent Link
 - Support
 - Help

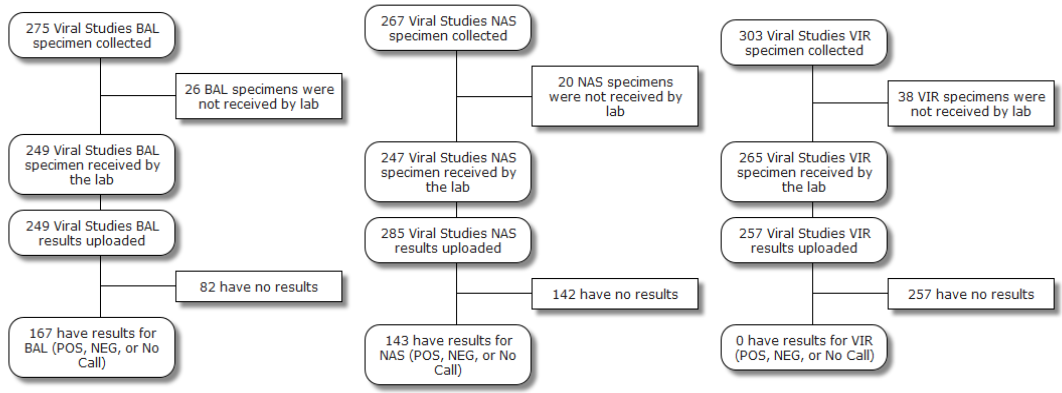
CCF (Farver)

Assay List > Histology Batches > Histology Runs > **Histology Results**

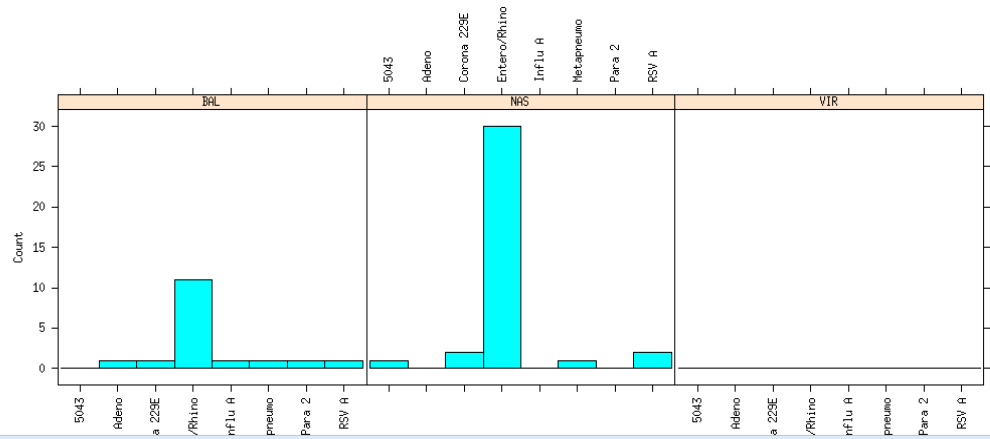
MANAGE ASSAY DESIGN | VIEW BATCHES | VIEW RUNS | VIEW RESULTS | VIEW COPY-TO-STUDY HISTORY

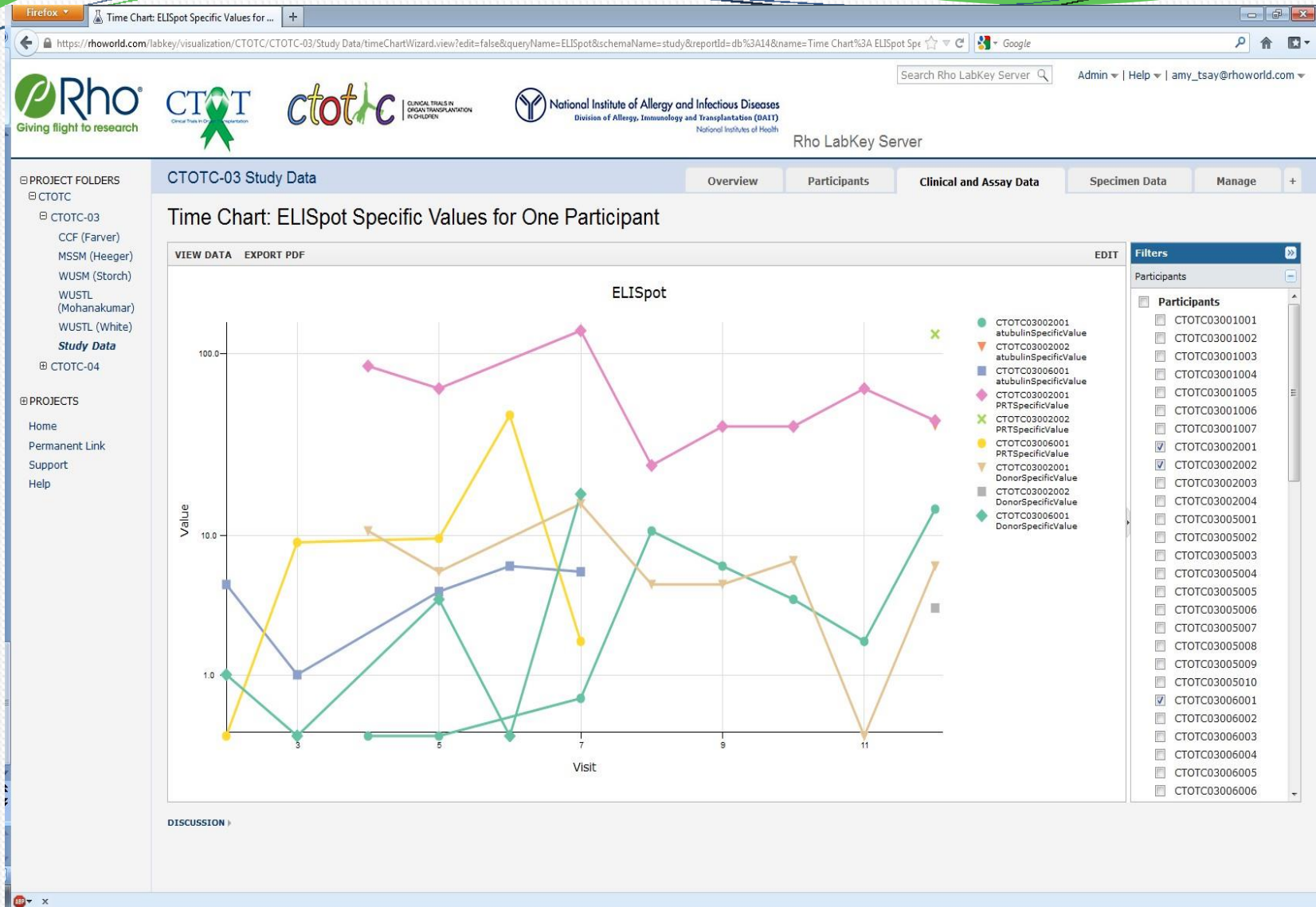
VIEWS	CHARTS	EXPORT	PRINT	PAGE SIZE	COPY TO STUDY	IMPORT DATA	REPLACED FILTER	1 - 39 of 39													
Study Site	Query Message	Patient Number	Participant ID	Number	Visit Date	Date Collected	Date Shipped	Date Received	Report Date	Specimen Type	Is Cutting Acceptable?	Alveolar tissue >= 5	"Vascular A" Score	Small Airways Present?	"Small Airways B" Score	"Chronic Airways C" Score	Large Airways Present?	Large Airway Inflammation	Acute LA Infl	Chronic LA Infl	Granulomas
001	2 duplicates found,	001	CTOTC03001001	2.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		No			No				No
001	2 duplicates found,	001	CTOTC03001001	2.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	No		No			No				No
001		001	CTOTC03001001	6.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		No			No				No
006		001	CTOTC03006001	4.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	No		Yes			No				No
006		001	CTOTC03006001	7.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		Yes			No				No
006		002	CTOTC03006002	6.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	No		Yes			Yes	Present	No	Yes	No
006		002	CTOTC03006002	7.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		Yes			Yes	Present	No	Yes	No
006		002	CTOTC03006002	8.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		Yes			Yes	None Present	No	No	No
006		002	CTOTC03006002	9.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		No			No				No
006	ParticipantID not found,	003	CTOT03006003	6.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		No			Yes	None Present	No	No	No
006	ParticipantID not found,	003	CTOT03006003	7.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	No		Yes			Yes	Present	No	Yes	No
006		003	CTOTC03006003	8.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		Yes			No				No
006		004	CTOTC03006004	6.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		Yes			No				No
006		004	CTOTC03006004	7.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	No		Yes			Yes	Present	No	Yes	No
006		004	CTOTC03006004	8.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		Yes			Yes	None Present	No	No	No
006		005	CTOTC03006005	4.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		No			No				No
006		005	CTOTC03006005	6.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		Yes			Yes	None Present	No	No	No
006		005	CTOTC03006005	7.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		Yes			Yes	Present	No	Yes	No
006		005	CTOTC03006005	8.0	2012-03-04	2012-03-04	2012-07-26	2012-07-28		TBBX	Yes	Yes		No			Yes	None Present	No	No	No

Viral Studies Specimen Usage Diagram



Frequency Distribution of Virus Detection by Specimen Type





Firefox Dataset: BAL-cytokines, All Visits /CTOT... +

https://rhoworld.com/labkey/study/CTOTC/CTOTC-03/StudyData/dataset.view?Dataset.reportId=db%3A11&datasetId=5004

Search Rho LabKey Server Admin | Help | amy_tsay@rhoworld.com

Rho Giving flight to research CTOT Clinical Trials in Organ Transplantation in Children National Institute of Allergy and Infectious Diseases Division of Allergy, Immunology and Transplantation (DAIT) National Institutes of Health Rho LabKey Server

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 CTOTC-03
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 MSSM (Heeger)
 WUSM (Storch)
 WUSTL (Mohanakumar)
 WUSTL (White)
 Study Data
 CTOTC-04

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CTOTC-03 Study Data Overview Participants Clinical and Assay Data Specimen Data Manage +

Dataset: BAL-cytokines, All Visits

VIEWS
 View: Trellis Scatter Plot: Cytokine Comparison Source: Cytokine data for R plot

View Data Source Help

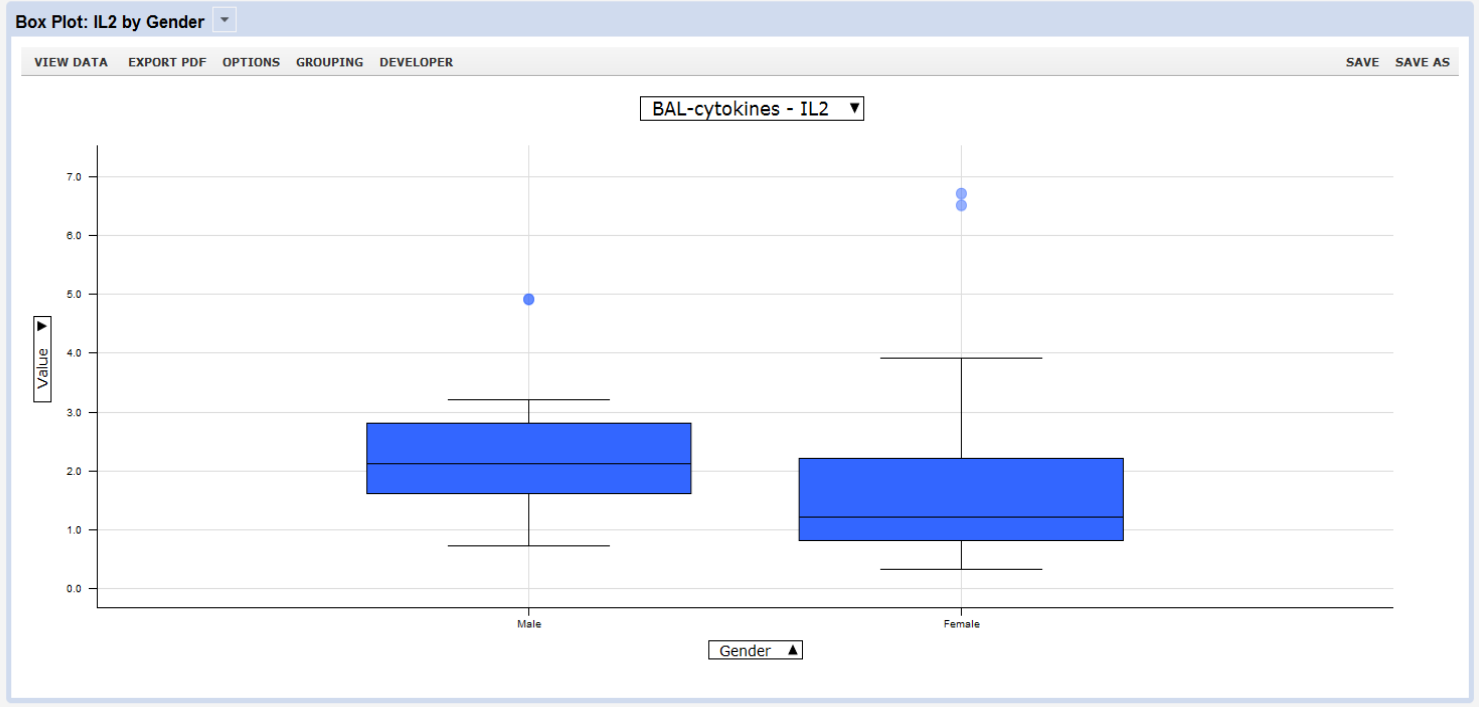
Image output

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CTOTC-03 Study Data

Overview | Participants | **Clinical and Assay Data** | Specimen Data | Manage | +

Box Plot: IL2 by Gender



DISCUSSION >

Next Steps

- Migrate all central labs on active trials to Labkey
- Complete implementation of auto-loading of clinical analysis data sets
- Form a working group to develop guidelines and specifications for exploratory and end-of-study analyses of merged study data
- Develop and implement data visualization features following working group guidelines
- Develop support for ancillary studies by permitting queries for samples based on clinical phenotypes across studies

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