

2019-03-06

OICR MISO Training

Intro



Logging In

We will use MISO Stage for these tutorials

1. In your web browser (Chrome or Firefox), navigate to MISO Stage:

<https://miso.gsi.oicr.on.ca>

2. Log in using the same username and password that you use for email

Navigating MISO

- Home Page
 - Widgets
 - Navigation Menu
 - Tabs
 - Help

The screenshot displays the MISO STAGING dashboard. At the top left is the MISO logo with the tagline 'managing information for sequencing operations'. To the right is the 'STAGING' title. Further right is the OICR logo (Ontario Institute for Cancer Research). Below the logo is a navigation bar with tabs: 'Home', 'My Account', 'My Projects', and 'Help'. On the far right of the navigation bar is a link 'Report a problem' and a login status 'Logged in as: dcooke | Logout'.

The main content area is divided into several sections:

- Preparation** (left sidebar):
 - Samples
 - Libraries
 - Dilutions
 - Worksets
 - Pools
 - Boxes
- Instrument Runs** (left sidebar):
 - Orders
 - All
 - Active
 - Pending
 - Sequencing
 - Containers
 - Runs
 - Array Scanning
 - Arrays
 - Runs
 - Instruments
- Tools** (left sidebar)
- Dashboard** (main content area):
 - Search**: A search bar with the text 'Search barcodable items by name, alias, or barcode. Alternatively, scan a barcode to see any matching items here.'
 - Instrument Status**: A section showing the status of three instruments:
 - D00355**: Running RUN3592 (190306_D00355_0269_ACD5KYANXX) and B: Running RUN3591 (190306_D00355_0270_BCD23PANXX). Busy since 2019-03-06. Status icon: blue hourglass.
 - M00146**: Running RUN3593 (190306_M00146_0025_000000000-D5V4B). Busy since 2019-03-06. Status icon: blue hourglass.
 - A00469**: Completed RUN3568 (190220_A00469_0025_AH722KDRXX) and B: Running RUN3590 (190305_A00469_0028_BHJH5MDMXX). Available since 2019-02-21. Status icon: yellow circle.
 - Workflows**: A section with a button 'Begin New Workflow'.
 - Project**: A search bar with the text 'Search projects by name, alias, short name,'.

List Pages

Pools

Illumina

Oxford Nanopore

PacBio

Illumina

Add

☒

☐

Edit

Create Orders

Print Barcode(s)

Download

Parents

Add QCs

Edit QCs

Delete

Merge

Show

25

entries

Search:

?

	Name	Alias	Description	Date Created	Dilutions	Concentration	
<input type="checkbox"/>	IPO11288	XX POOL 1		2019-03-08	1	3.6 ng/μL	
<input type="checkbox"/>	IPO11289	XX POOL 2		2019-03-08	1	3.6 ng/μL	
<input type="checkbox"/>	IPO11290	XX POOL 3		2019-03-08	1	3.6 ng/μL	
<input type="checkbox"/>	IPO11291	XX POOL 4		2019-03-08	1	3.6 ng/μL	
<input type="checkbox"/>	IPO11292	XX POOL 5		2019-03-08	1	3.6 ng/μL	EMPTY
<input type="checkbox"/>	IPO11296	PR POOL 4		2019-03-08	1	2.472047914 ng/μL	EMPTY
<input type="checkbox"/>	IPO11297	PR POOL 5		2019-03-08	1	2.588348896 ng/μL	EMPTY
<input type="checkbox"/>	IPO11294	PR POOL 2		2019-03-08	1	3.347579009 ng/μL	EMPTY

Search syntax:

is:fulfilled
is:active
created:DATE
changed:DATE
creator:USER
changedby:USER
platform:PLATFORM
index:NAME
index:SEQ
box:NAME

Edit Pages

Edit Sample

Save

> Home > PROJ

< Previous Sample SAM187275

Quick Help

Sample Information

Sample ID:

187276

Project:*

PROJ209 (PROJ – PROJ)

Name:

SAM187276

Alias: *

PROJ_0002_Ab_P_nn_1-1_D_1

75

Description:

255

Matrix Barcode:

Date of receipt:

YYYY-MM-DD

Scientific Name:*

Homo sapiens

243

Sample Type:*

GENOMIC

QC Status:*

Not Ready

Discarded:

☐

Volume:

Edit Pages (Continued)

Libraries

Receive

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☐

☐

Edit

Make dilutions

Print Barcode(s)

Download

Parents

Children

Add QCs

Edit QCs

Add to Workset

Attach Files

Delete

Show

25

entries

Search:

	Name	Alias	Sample Name	Sample Alias	QC Passed	Index(es)	Location	Last Modified	Warnings
<input type="checkbox"/>	LIB28601	PROJ_0002_Ab_P_PE_300_EX	SAM187276	PROJ_0002_Ab_P_nn_1-1_D_1	✓	None	Unknown	2019-03-11 11:36:14	

Showing 1 to 1 of 1 entries

First

Previous

1

Next

Last

Relationships

Create☒☐☐

Edit

Propagate

Print Barcode(s)

Download

Parents

Children

Add QCs

Edit QCs

Add to Workset

Attach Files

Delete

Show25entries

Search:

	Name	Alias	Sample Class	Type	QC Passed	Location	Creation Date	Last Modified	Warnings
<input type="checkbox"/>	SAM187274	PROJ_0002_Ab_P_nn_1-1	Tissue	GENOMIC	?	Unknown		2019-03-11 11:36:13	
<input type="checkbox"/>	SAM187275	PROJ_0002_Ab_P_nn_1-1_D_S1	gDNA (stock)	GENOMIC	?	Unknown		2019-03-11 11:36:13	
<input type="checkbox"/>	SAM187273	PROJ_0002	Identity	GENOMIC	?	Unknown		2019-03-11 11:36:12	

Showing 1 to 3 of 3 entries

First

Previous

1

Next

Last

Changes		
Show	25	<input type="button" value="v"/>
entries	Search: <input type="text"/>	
Name	Summary	Time
admin	Sample created.	2019-03-11 11:36:12
Showing 1 to 1 of 1 entries		
First Previous 1 Next Last		

Bulk Pages

Create Libraries

Save

Quick Help

Fill Boxes by Row	Fill Boxes by Column	Check QCs	Import	Export									
Library Name	Library Alias	Sample Type	Project	Sci. Name	External Name	Identity Alias	Donor Sex	Consent	Subproject	Sample Class	Tissue Origin	Tissue Ty	
		▼	▼	Homo sapiens		▼	Unknown ▼	This Project ▼	(None) ▼	gDNA (aliquot)	▼		
		▼	▼	Homo sapiens		▼	Unknown ▼	This Project ▼	(None) ▼	gDNA (aliquot)	▼		
		▼	▼	Homo sapiens		▼	Unknown ▼	This Project ▼	(None) ▼	gDNA (aliquot)	▼		
		▼	▼	Homo sapiens		▼	Unknown ▼	This Project ▼	(None) ▼	gDNA (aliquot)	▼		
		▼	▼	Homo sapiens		▼	Unknown ▼	This Project ▼	(None) ▼	gDNA (aliquot)	▼		
		▼	▼	Homo sapiens		▼	Unknown ▼	This Project ▼	(None) ▼	gDNA (aliquot)	▼		
		▼	▼	Homo sapiens		▼	Unknown ▼	This Project ▼	(None) ▼	gDNA (aliquot)	▼		
		▼	▼	Homo sapiens		▼	Unknown ▼	This Project ▼	(None) ▼	gDNA (aliquot)	▼		
		▼	▼	Homo sapiens		▼	Unknown ▼	This Project ▼	(None) ▼	gDNA (aliquot)	▼		
		▼	▼	Homo sapiens		▼	Unknown ▼	This Project ▼	(None) ▼	gDNA (aliquot)	▼		

Projects

- Grouping of samples, libraries, sequencer runs, and other related items
- Samples belong to a project. Most other items are related indirectly
- Edit Project page shows all related items
- Optionally, a project may have subprojects which can be assigned to samples within the project

Working with Boxes

- Samples, libraries, dilutions, and pools can be stored in barcoded tubes
- These tubes are stored in boxes
- Boxes are usually stored in freezers
- Boxes may also represent plates which do not have a barcode for each well
- The Box Contents diagram in MISO allows you to select and work with one or many box positions to choose or modify what it stored in the box
- The VisionMate scanner can be used to scan all of the tubes at once to quickly fill a box in MISO



Working with Tables

- Bulk entry in MISO is done using a table interface similar to Excel and other spreadsheet software
- Tables have import and export features
 - Can work in spreadsheet software outside of MISO
- In some cases, the bulk table does not include all information
 - Check the individual item page

Exercise

Complete the following tutorials:

- Tutorial 2: Project Coordination
- Other Tutorial 3: Working with Boxes
- Other Tutorial 5: Working with Tables

<https://oicr-gsi.github.io/miso-docs-oicr/>



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