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Ontario Institute for Cancer Research

MISO Training for Array data



Logging In

We will use MISO Stage for these tutorials

1. If you are using a loaner laptop, use these credentials
username: Loaner
password: LN@01cr[asset#]
(e.g. LN@01cr1234)
2. Connect to the OICR Personal WiFi network using the same username and password that you use for email
3. In your web browser (Chrome or Firefox), navigate to MISO Stage:
<https://miso.gsi.oicr.on.ca>
4. Log in using the same username and password that you use for email

Goal

- Learn how to enter Array data into MISO in the quickest way possible
 - Will not explore all MISO features
 - Other tutorials available at <https://oicr-gsi.github.io/miso-docs-oicr/>

Projects

- Grouping of samples, libraries, sequencer runs, and other related items
- Edit Project page shows all related items
- Related Array Runs and Arrayed Samples are listed near the bottom
- Samples belong to a project. Most other items are related indirectly

Exercise

Complete exercise 2.1: Creating a new project

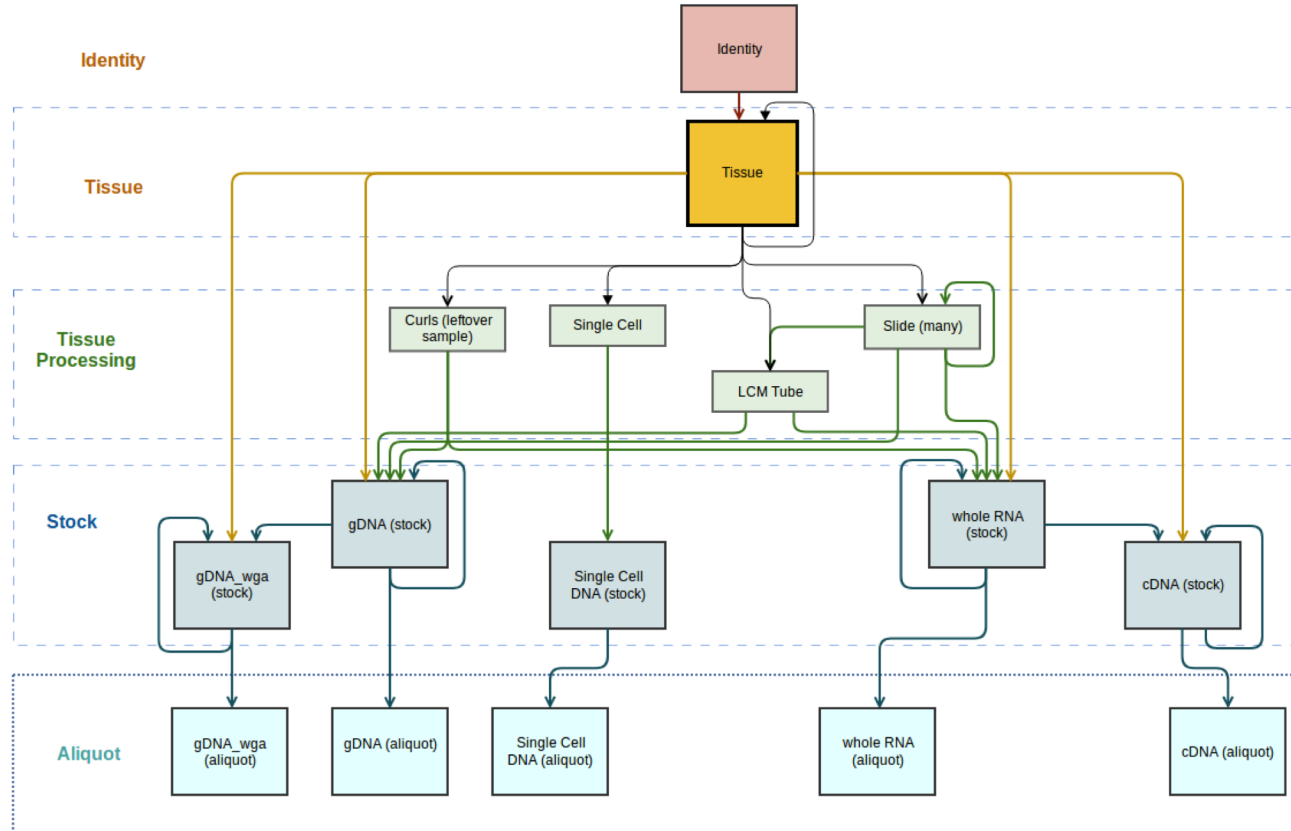
<https://oicr-gsi.github.io/miso-docs-oicr/5-0-arrays>

or <https://bit.ly/2FXlg6x>

Samples

- Samples have different classes according to our sample hierarchy
- Classes are divided into categories
 - Identity – represents a donor or organism
 - Tissue – piece of tissue taken from the donor or organism
 - Tissue Processing – optional steps describing additional processing of the tissue sample
 - Stock – analyte extracted from the tissue
 - Aliquot – analyte sample ready to be made into a library, or used for other purposes
- We can “receive” samples at any level
 - Ghost samples created when necessary
- We can propagate samples from one level to the next
- Aliquot samples will be required to add to arrays

Sample Hierarchy



Exercise

Complete exercise 3.1: Receiving Samples

<https://oicr-gsi.github.io/miso-docs-oicr/5-0-arrays>

or <https://bit.ly/2FXIg6x>

Arrays and Array Runs

- An Array in MISO represents a chip that samples are loaded onto
 - Different Array Models can hold a different number of samples
 - The Infinium MethylationEPIC-8 BeadChips used by TGL hold 8 samples
- An Array Run in MISO represents the results of running this chip on an array scanner

Exercise

Complete the following exercises:

- 4.1: Create an Array
- 5.1: Create an Array Run

<https://oicr-gsi.github.io/miso-docs-oicr/5-0-arrays>

or <https://bit.ly/2FXlg6x>



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