

OICR MISO Tutorial Samples



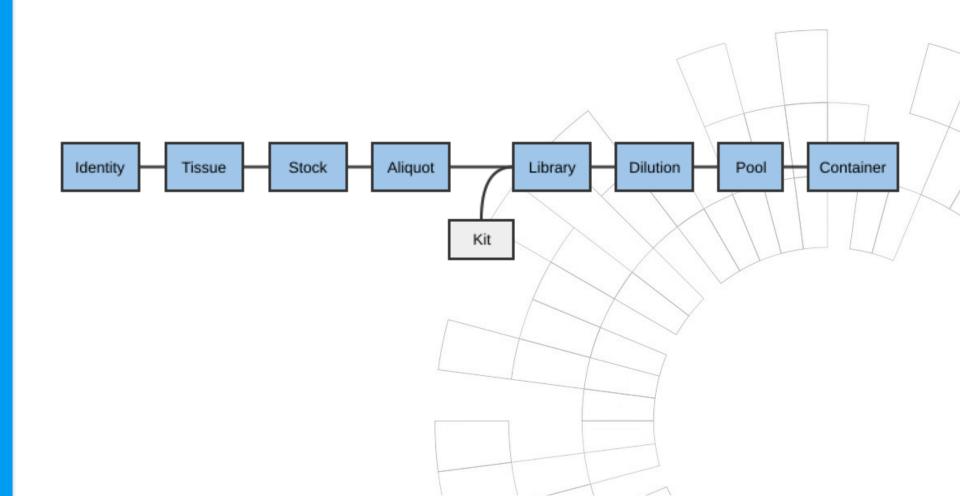


Outline

- Logging in
- Receiving samples
 - Tissues
 - Tissue Processing
 - Stocks
 - Aliquots
- Propagating samples
- Adding Sample Qcs

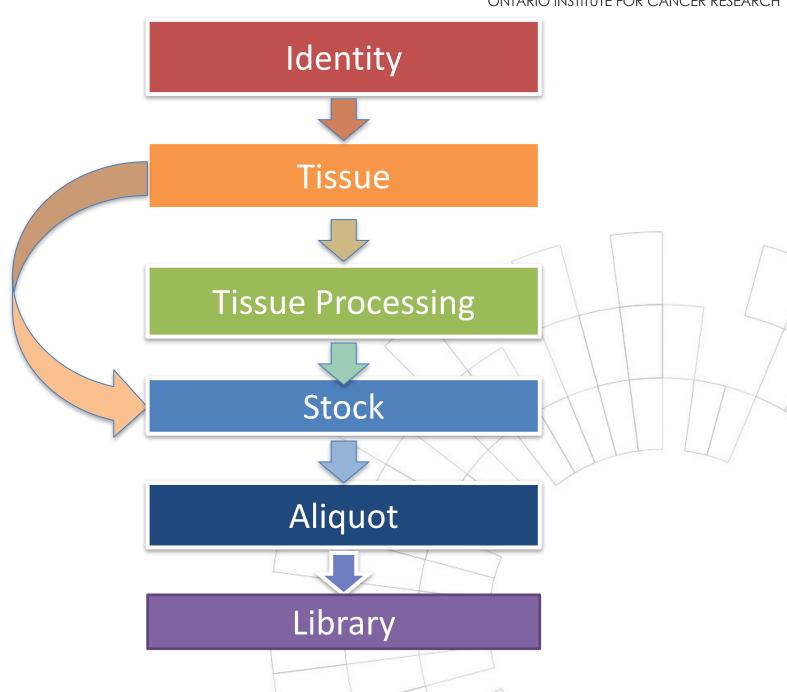


General MISO Flow



Samples

- Most collaborator-provided and tissue information is part of the sample information
- Samples are received as tissues, stocks, or aliquots
 - Each is connected with an identity
 - Identities are created automatically based on the external name
- Eventually, samples end up as aliquots for making libraries



Identity

- Represents a donor (person)
- The external name is the name used by the external institute to keep track of which donor gave that particular sample.
- The alias is the name OICR uses to keep track of which samples come from that donor.
- e.g. external name = Morgan; alias = MORG_0001.
- MISO has an Identity Search tool
 - Find existing Identities and list samples related to them

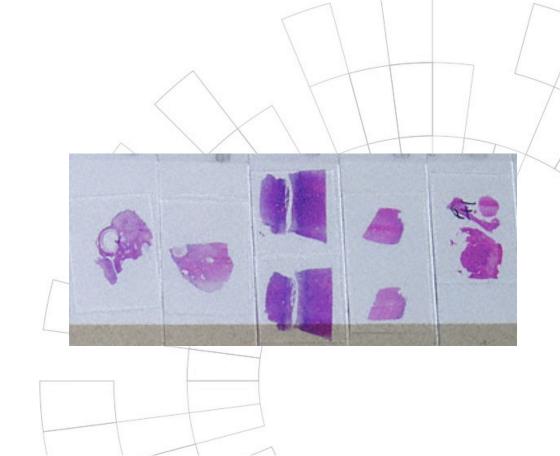
Tissue

- A piece of tissue direct from the donor
- Tissue Types:
 - Reference Tissue
 - Primary Tumor Tissue
 - Metastatic Tumor Tissue
 - Xenograft Tissue
 - Cell Line



Tissue Processing

- Workflow steps as tissue samples get processed
- Sample Classes within Tissue Processing category:
 - Slides
 - Curls
 - LCM Tube
 - Single Cell



Stock

Extracted material that is ready to be separated into one or many aliquots

- Sample Classes within stock category:
 - gDNA (stock)
 - gDNA_wga (stock)
 - whole RNA (stock)
 - cDNA (stock)
 - Single Cell DNA (stock)

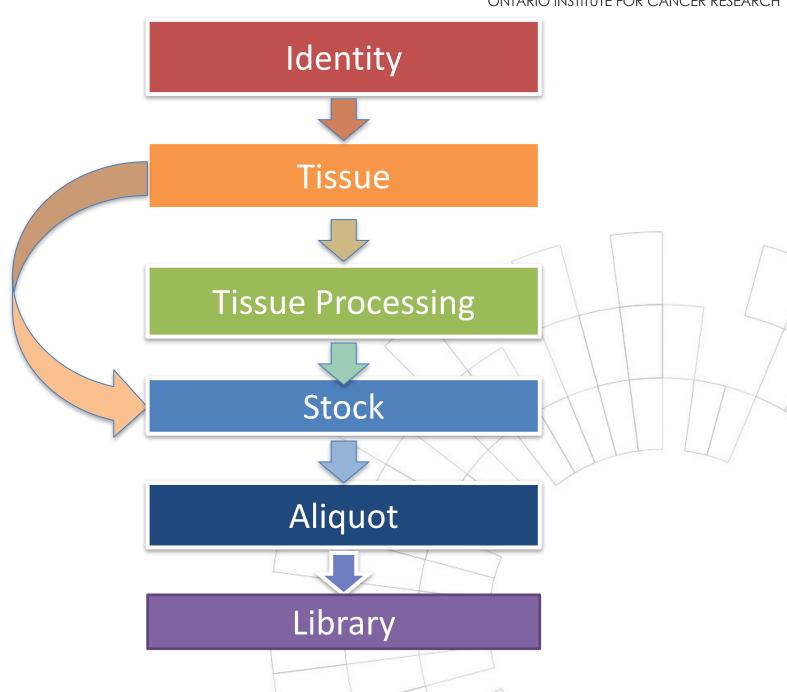


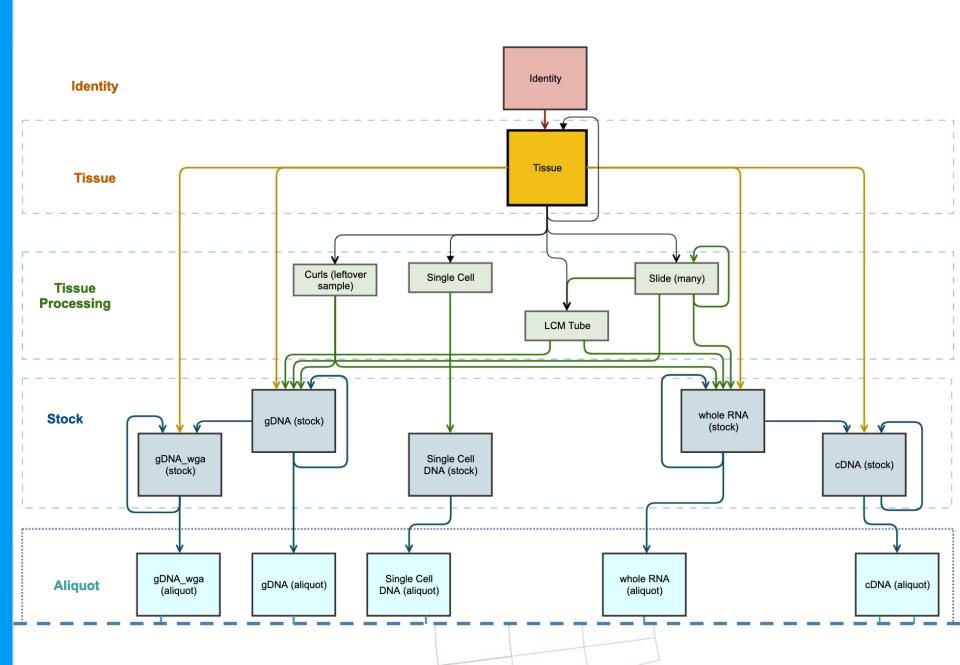
Aliquot

A portion of the extracted material to be made into a library or used for QC or other purposes

- Sample Classes within aliquot category:
 - gDNA (aliquot)
 - gDNA_wga (aliquot)
 - whole RNA (aliquot)
 - cDNA (aliquot)
 - Single Cell DNA (aliquot)







Troubleshooting

- How do you work with multiple samples derived from the same identity (i.e. DNA and RNA from one tissue slide, DNA from metastasis and control)
- How do I correct a sample that has the wrong information, e.g. wrong tissue type?
- What if I need to change the parent of a sample? (e.g. for swaps)
- What do I have to enter if receiving a pre-made library?
- How can I add a new tissue type, tissue origin, or add anything else in drop-down menus?
- How can I delete samples?

Done! Any further questions?

Exercise

Complete Tutorial 3: Samples

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