iLab Solutions Sample Processing

Managing and Organizing Samples Across Requests

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Sample Processing Feature Overview

- iLab has developed an Sample Processor (SP) feature to be used in cooperation with the iLab Core Facility Management software
- SP will allow some cores (e.g., Sanger Sequencing, Oligo synthesis, Proteomics, etc.) to use iLab for their workflow management
- Both the core and researcher will realize an increase in efficiency with the use of this feature
  - Uninterrupted workflow from request submission to sample processing to billing and reporting
  - Easily identify samples from multiple submissions and combine into one workflow
  - Flexible container types, request forms, and equipment input files
  - Universal design to support variety of workflow needs
Is SP Right for Me?

- Do I provide a service that requires the user to submit samples for processing?
- Are the samples run on an instrument that requires each sample to be identifiable?
- Do I often receive multiple samples per request?
- Do I run samples from multiple requests in a single run?

*If the answers are **Yes** to all of these questions, SP will meet your needs!*
Sample submission and sample processing workflow in iLab

1. User submits list of samples with request submission
2. Core reviews request, builds quote (if applicable), and accepts work
3. User drops off samples
4. Core can view list of all samples across all requests ready for processing
5. Using ASRM, Core systematically fills container (e.g., plate) with samples to be processed in a single run
6. File is generated and uploaded onto instrument computer
7. Samples processed
8. Samples marked as completed and designated ‘ready to bill’ or ‘not billable’ as appropriate

Legend
- Blue: Managed in iLab
- Gray: Managed outside of iLab
Samples from multiple requests can be assigned to one plate by clicking 'select all' and then using the auto-insert feature.
SP Screenshot: managing sample location and managing all containers (e.g., plates)

Once samples are added to a plate, sample location can be viewed and other samples can be added to the same plate.

Additionally, all plates created can be viewed in a list and searchable using keywords and filters for streamlined process management.