StarLIMS

StarLIMS is a web-based Laboratory Information Management System (LIMS) allowing to manage various lab processes, including samples archiving, materials and resources management, audit trail, flexible calculation and data analysis tools.

Objectives

- Reducing number of time-consuming procedures and facilitating samples archiving in BioRepository
- Routine procedures automation (e.g., QBE template generation)
- Generating offline documentation (e.g., printable container grid, QBE results export)
- Extending BioRepository with new transactions (e.g., moving samples within container, changing external ID)

Enhanced Samples Archiving

- Novel interfaces for samples archiving according to certain material types are introduced reducing the number of data entries and location positioning
- Samples of similar types can be archived using a single interface
- Previously selected values are remembered and used as pre-selection

Automatic QBE Templates Generation

QBE (Query-by-example) template for the selected metadata template can be generated automatically, without using QBE Manager. The resulting query contains essential sample characteristics such as ID, material type or project and all the metadata fields with the corresponding captions.

Printable Container Grid

Each container grid cell contains information on sample ID, material type and archiving date.

New BioRepository Transactions

- Changing external ID of a sample
- Password protected metadata edition
- Moving samples within container

Restricted transactions

- Sample Submission Form for cardiology project
- User only needs the following data:
  - pseudonyms
  - samples quantity
  - amount per sample
  - samples location in container.

Arbitrary many samples of material types plasma, serum and buffy coat with the same metadata set can be archived using one form.