

LIMS

BecA Hub Laboratory Information Management System

What is a Laboratory Information Management System (LIMS)?

It is an information management system that can record, store and display all information relevant to a research laboratory.

The BecA Hub LIMS, LabCollector, consists of modules specific for the needs of the end-user scientist. Modules include:

- Samples Module - stores information on any kind of sample that the lab manipulates. You can custom define sample types. Lab staff can add multi-level processes or tests to each sample, which are kept by entry date and can be easily created with predefined process type indication and reports. Samples and associated processes are connected to its operator. Sample data can be linked to other sample records or information on other modules.
- Reagents & Supplies Module - stores any kind of reagents, chemicals or other supplies that are used in the lab. Search and browse by keyword, provide risk and safety data and associates seller or local distributor contacts (with item price). Keeps track of each lot with available quantity and original barcode number and provide one-click memorization of items to order into a Order Us list. The order list includes a detailed ordering management system (status of orders) with historical data.
- Equipment Module - stores information on all equipment in the lab and links to standard operating procedures and manual associated with equipment. It is also possible to book equipment using the equipment-booking module.
- Strains Module - keeps and displays information about all bacteria, cells or other organisms owned by the user or laboratory.
- Sequences Module - stores sequences common to lab experiments, find matching primers for the sequence, link to associate files like ABI files and provide access to basic bioinformatics tools.
- Primers Module - stores primer records that include details like orientation, purity, labels and availability.
- Plasmids Module - stores and allows the search for plasmid data.
- Antibodies Module - stores information on antibodies such as isotypes, species and applications.
- Animals Module - manage laboratory animal records such as which animal cages are currently hosted, their status, ongoing experiments. Commentaries box allows quick observations recording.

What can you do with a Laboratory Information Management System?

- Speed-up your research.
- Manage and track samples and biological material.
- Know reagents stocks and validity in real-time.
- Find your cell line in seconds.

- Keep activity records.
- Know which animals are in which cages or stables.
- Know which plants are in greenhouse or tissue culture.
- Browse and easily manage storage places.
- Manage your sequences, plasmids or primers and analyze them quickly.
- Share documents, protocols and other documents on the lab.
- Keep and manage experiments in a collaborative Electronic Lab Notebook (ELN).

How to use the BecA Hub LIMS?

Access to the BecA Hub LIMS is through a web browser at <http://lms.ilri.cgiar.org/labcollector/html/> using your BecA Hub assigned username and password.

The BecA Hub LIMS LabCollector manual is available [LabCollector manual 2.27 Mb](#).

Manager

Dr. Etienne deVilliers (Scientist)

\n e.villiers@cgiar.org

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