

**Note: this information will be revised in January 2026. Until then, it may be out of date.**



## What is a laboratory information management system (LIMS)?

A laboratory information management system, or LIMS, is a type of software that is designed to help manage large volumes of data produced from experimental workflows. In its simplest form, a LIMS acts as a tracking system that monitors the lifetime of a given sample as it progresses through various stages of production and characterization.

## Motivation for BioPACIFIC MIP LIMS

BioPACIFIC MIP's LIMS was created in order to streamline the collection of data across BioPACIFIC instruments into a singular repository.

In December 2023, the LIMS was re-designed to integrate, in a feed-forward manner, with the BioPACIFIC MIP electronic lab notebook (ELN). This enables linking experimental data to synthesized materials and experimental protocols described in notebook pages, as shown in Fig 1.



*Fig 1. Schematic of information flow from ELN to LIMS, culminating in access to myriad annotated data.*

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