ELN Page Annotations

Page Annotations are a unique feature of the ELN (Fig 1). These annotations come in the form of various modules, located at the top of any given ELN page, that collect information about different processes. This information helps to annotate the page about details such as: chemical reagent and product information for a synthesis; biological protocols used in a synthetic biology experiment; descriptions for the contents of well plates; and so on. This information remains linked to the ELN page, is stored in the LIMS for programmatic access, and is shared via page snapshots.



Fig 1. Page annotation menu. From left to right: Chemistry, Biology, Well Plates, ChemSpeed (future), and Symphony X/Peptide Synthesizers (future).

Chemistry Annotations

Basic information about the chemical reagents used and products produced in an experiment are recorded in the Chemical Annotation module (Fig 2). This information is used to populate Chemical data entries in the LIMS database and provides a simple, historical account of the reagent quantities and product yields in the synthesis.



Fig 2. Reagent and product tables in the ELN's Chemical Annotation module. Rows can be added/removed as needed by the user inputting values to the table.

Biology Annotations

Biological page annotations (Fig 3) are meant to capture the wealth of information available in conducting synthetic biology experiments. In this annotation tool, users can add, view, and edit information regarding organisms, nucleotides, plasmids, and protocols utilized in their synthetic biology experiments.



Fig 3. Biological annotation panel. These annotations capture information about organisms, nucleotides, plasmids, and various protocols applicable to synthetic biology experiments.

Well Plate Annotations

Well plate annotations (Fig 4) in the ELN come in two different forms (as of 1/22/2025): chemical and biological. Depending on the plate choice you specify, you will walk through a process for capturing formulation information (chemical) or well-by-well culture information (biological). Once saved, the plate is given a unique ID and a QR code, and is made available in a visual display with your other well plates. Plates can then be edited or removed from your ELN page.

Fig 4. Plate annotation panel. Users first specify a plate type (chemistry or biology) and then following the prompts. Biological plates have another layer of detail, allowing well-by-well annotation and file uploads. Once a well plate is created, it shows in the list with other plates, along with their QR codes.

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Last update: **2025/01/22 18:08**