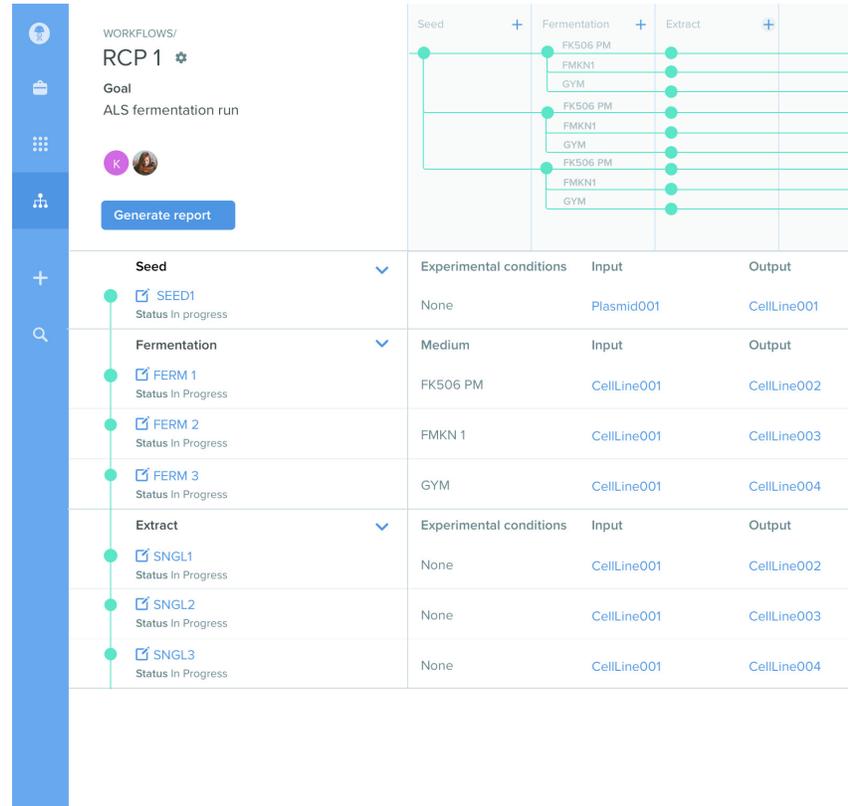


## Track and Measure Life Sciences R&D in Real-Time

Workflows is a new class of informatics software that unifies, optimizes, and measures experimental progress from discovery to bioprocessing for any large molecule modality.

Through its native integration with the Benchling platform, Workflows systematizes experimental processes and breaks down data silos throughout R&D. Companies can access a comprehensive, real-time view of pipeline progress, optimize their processes, and extract scientific and business intelligence at every stage of R&D. The system is also built to be configured through an intuitive UI by designated client-side administrators, so they can swiftly adapt to the changing needs of their organization without dependence on vendors.



Step	Experimental conditions	Input	Output
<b>Seed</b>			
SEED1 Status In progress	None	Plasmid001	CellLine001
<b>Fermentation</b>			
FERM 1 Status In Progress	Medium	Input	Output
FERM 2 Status In Progress	FK506 PM	CellLine001	CellLine002
FERM 3 Status In Progress	FMKN 1	CellLine001	CellLine003
FERM 3 Status In Progress	GYM	CellLine001	CellLine004
<b>Extract</b>			
SNGL1 Status In Progress	Experimental conditions	Input	Output
SNGL2 Status In Progress	None	CellLine001	CellLine002
SNGL3 Status In Progress	None	CellLine001	CellLine003
SNGL3 Status In Progress	None	CellLine001	CellLine004



### Streamline day-to-day operations

- Team leads can define and plan multi-stage scientific workflows.
- Scientists can see the history of any sample, process, or result in seconds.
- Team leads can coordinate multi-team handoffs by eliminating manual entry.



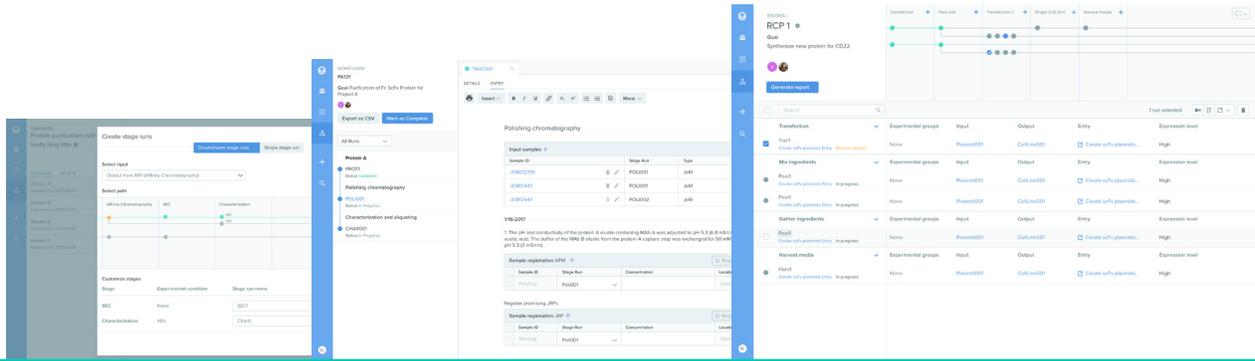
### Optimize research processes

- Group heads can troubleshoot and optimize processes by running queries on experimental progress.
- Executives can inform research decisions by leveraging the entirety of their organization's data.



### Unify research and development

- All groups from research to development can use a single system that transfers full experimental context between functions.
- Reduce lead time for IND filings and enforce SOPs.



1

## Plan and map workflows

- Design and visually map multi-stage workflows for research and development processes using the flexible workflow configurator.
- Assign ownership of each stage to individual scientists or teams.
- Create standardized templates for well-characterized experiments and processes.
- Preserve prior versions of templates.

2

## Record data in a notebook interface

- Directly register workflow outputs (entities and batches) from the Notebook interface
- Enter and extract structured results directly from the Notebook
- Automatically surface important inputs, outputs, and key results onto a dashboard
- Through instrument integrations, populate functional data directly in the Notebook

3

## Track and report research progress

- Monitor real-time progress and view important inputs, outputs, and results
- Standardize and display lineage tracking via branched visualizations
- Configure and generate reports on results and properties across a sample's full experimental history in a single click
- Report progress across workflow versions to compare experimental conditions

4

## Query Workflows to extract scientific and business intelligence

- Query across sample, process, and result data. For example:
  - What were the assay results for this sample?
  - What were the conditions under which this sample was produced?
  - Who created this sample?
- Mine trends to surface scientific and business intelligence. For example:
  - What conditions produced the most successful candidates?
  - What samples were affected by a faulty lot?
  - How many assay requests are being performed for each program?

