



---

## Best-in-Class Sequence Design Tools Centralized on One Platform

### CENTRALIZED MANIPULATION

#### Run Virtual Digests and Automate Primer Design

With Benchling's comprehensive analysis suite, point solutions for sequence design are no longer necessary. Run virtual digests and design primers powered by Primer3 or manual methods, with cut-site, overhang, and secondary structure visualization. Just as with custom annotation libraries, create custom primer libraries that can easily be shared across teams.

### COMPLEX CONSTRUCTS

#### Cloning Features Stream- line Assembly Design

Benchling is designed with real scientist workflows in mind, from the most cutting-edge techniques to the most reliable everyday ones. Our product supports automated Gibson, Type IIS, and Digestion and Ligation cloning, so scientists never have to switch between multiple unwieldy tools to manually piece together assemblies ever again.

### REVOLUTIONIZING CRISPR

#### The New Industry Standard for CRISPR

Existing CRISPR tools suffer from outdated scoring algorithms, slow speed, and privacy and security issues. Benchling works with scientists to implement the latest in CRISPR advances, resulting in a product powered by the latest scoring algorithms with speeds 100X faster than the leading competitor. Design guides and templates in one place, quickly and securely.

---

## Sharing Features and Intuitive Interface Power Collaboration

### LINK TO SEQUENCES

#### Centralized Sequences Ensure Visibility

Benchling allows scientists to easily share links to their sequence files. Oligos, assemblies, plasmids, protein sequences, and more can all be easily viewed and distributed. Scientists are no longer constrained to sharing only the results of disparate design tools; they can share the entire context of their experimental process. The unprecedented transparency that the Benchling platform offers means that no stakeholder has to spend time wondering where to get the most accurate, up-to-date information on a team's constructs.

### FOR SCIENTISTS, BY SCIENTISTS

#### User-Friendly Functionality

Like all of Benchling's tools, Molecular Biology is designed for scientists, by scientists. This means that it not only synthesizes and adds to the functions of scientists' existing disparate tools, but it does so in a way that's aesthetically pleasing and intuitive. Scientists can easily get up and running with Molecular Biology and share sequence links even with teams that don't design their sequences in Benchling.

## Powering Molecular Biology with Experimental Context

### NOTEBOOK

Integration with Benchling's Notebook changes Molecular Biology from a standalone tool into a powerful driver of experimental context. With Notebook, sequence design and documentation can happen side-by-side, ensuring that every sequence is accompanied by its full experimental history. And since Benchling's applications all exist within the same platform, any updates to sequences will be automatically carried over into the Notebook entries in which they're mentioned or attached.

### REGISTRY

The Registry appends a metadata tab to every Molecular Biology file, allowing for additional and more complex information tracking. Custom schemas allow scientists to track any piece of information about a sequence or construct, as well as allow them to standardize information tracking across sequences. The Registry also empowers scientists to view any other files that are relevant to a given sequence file; Notebook entries, other sequence files, constructs, and biological entities relevant to a given sequence are easily viewable and searchable.

### WORKFLOWS

Everything on the Benchling platform happens with complete synchronicity. The Workflows application allows managers to assign specific tasks to scientists and teams with direct links to relevant files in Molecular Biology. This means that scientists can start building experimental context before they even begin carrying out their experiments, transforming Molecular Biology into a set of tools that drives research and experimental design even beyond initial sequence design.

