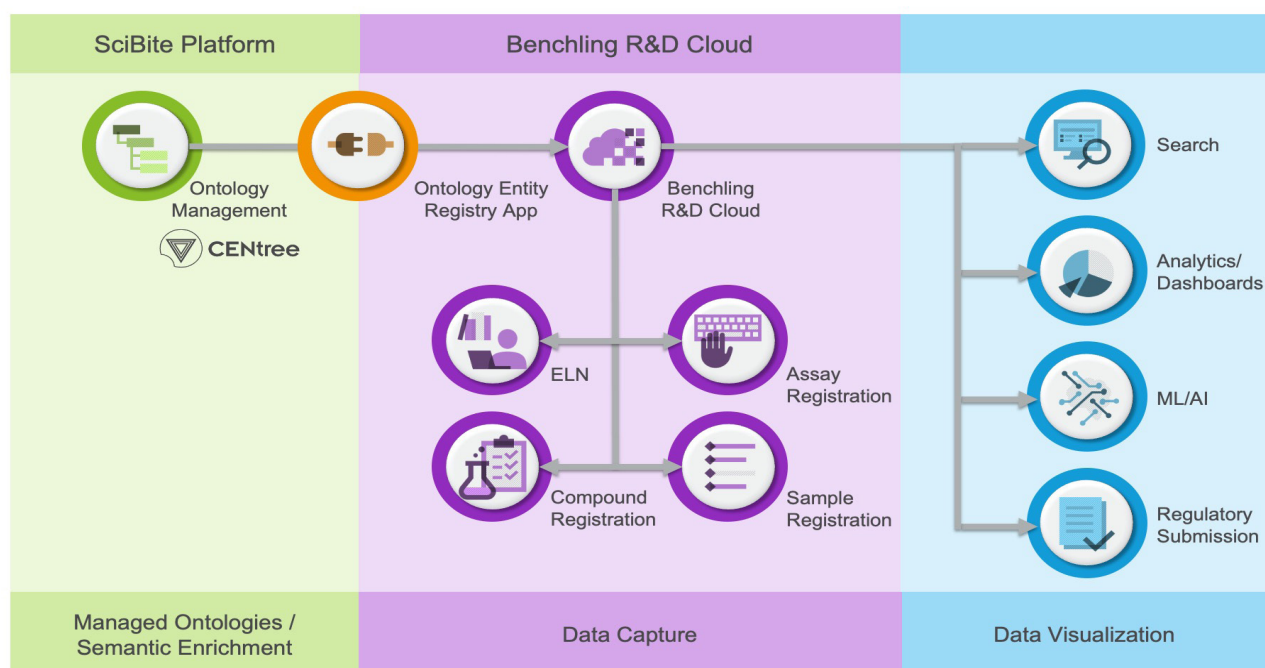# Enterprise Data Standards via the SciBite Ontology Entity Registry App for Benchling

Overview

SciBite, from Elsevier provides expertise and software for the development and deployment of enterprise ontologies and data standards. FAIR data principles enable efficiency gains and new technologies like AI to be exploited. The cost of not implementing these principles can be huge. The most cost-effective way to apply FAIR principals is at the point of capture, providing immediate benefits in data utility and avoiding costly retrospective data cleansing. The Ontology Entity Registry App allows data captured in Benchling to be aligned to enterprise ontologies at point of capture. These enterprise ontologies being managed in SciBite's ontology management tool, CENtree.

As a leader in cloud informatics software for R&D, Benchling provides digital solutions for the biopharmaceutical, agritech, and industrial biotechnology industries. Benchling supports ontology-backed data capture and registration natively within their products. The Ontology Entity Registry App, extends these capabilities through the addition of workflows and a governance framework. These support the development and deployment of enterprise ontologies based on public standards and incorporating internally developed standards.

Schematic overview of SciBite and Benchling platform.

Benefits of the Ontology Entity Registry App

The Ontology Entity Registry App empowers biopharmaceutical, agritech, and industrial biotechnology customers with the ability to:

- Bring FAIR data principals to laboratory data capture, enabling Benchling to become a FAIR data factory.
- Capturing FAIR data up front is more cost effective than retrospectively cleaning data when making regulatory submissions or during audits.
- FAIR data at point of capture provides immediate benefits to Benchling users, improving search and analytics accuracy within Benchling, preventing duplication and promoting data usage/reusage.
- Disambiguating data at point of entry can save hours or days in data cleaning. Ambiguous data cannot always be corrected retrospectively, leading to costly and time consuming repeating of work.

About SciBite

SciBite's data-first, semantic analytics software is for those who want to innovate and get more from their combines the latest in machine learning with an ontology-led approach to unlock the value of scientific content. **Find out more at** www.scibite.com.

SciBite CENtree solution overview

SciBite's ontology management platform CENtree provides a centralized, enterprise-ready resource for ontology management and transforms the experience of maintaining and releasing ontologies for research-led businesses. CENtree combines ease of use with cutting-edge AI techniques to assist users, for example, by suggesting possible relationship connections for a given ontology class. **Visit** SciBite CENtree.

	Collaborative	Give your team the opportunity to add value by editing, annotating and managing ontologies stored in a centralized location.
	Secure	Set permission levels and track every edit with the ability to undo undesirable changes, so you can encourage support without losing control.
	Integrated	By offering robust API integration with a wide range of search and data capture applications, CENtree makes managing data and insights simpler.

About Benchling

Biotechnology is rewriting life as we know it, from the medicines we take, to the crops we grow, the materials we wear, and the household goods that we rely on every day. But moving at the new speed of science requires better technology. Benchling's mission is to unlock the power of biotechnology. The world's most innovative biotech companies use Benchling's R&D Cloud to power the development of breakthrough products and accelerate the time needed to reach milestones and market. **Find out more at** www.benchling.com.

Benchling Notebook solution overview

Benchling interlinks and tracks the entire R&D lifecycle — from project documentation and data acquisition to sequence design, sample management, process management, and reporting. By standardizing and centralizing R&D data and workflows on a single platform, Benchling helps forward-thinking companies accelerate their digital lab transformation to enable better, faster decision-making. **Visit** Benchling Notebook.

	Built for complex science	Purpose-built to support the development of anything from biologics and biomaterials to strains and small molecules, Benchling interlinks your sequences, samples, and experiment results to ensure full traceability
	Intuitive and easy to use	Modern user interface — with natively interconnected notebook, sample registration, inventory management, and workflow design applications — means your team can work better and faster, together
	Adapts to your process	Built on top of a secure, high-performance cloud infrastructure, Benchling supports evolving scientific workflows and integrates with lab instruments and other software systems to help unify your R&D data ecosystem
	Enables data-driven decisions	Centralized, standardized data capture and storage help ensure the integrity of your data, while integrated analytics tools help you derive the insights you need to make better scientific and operational decisions