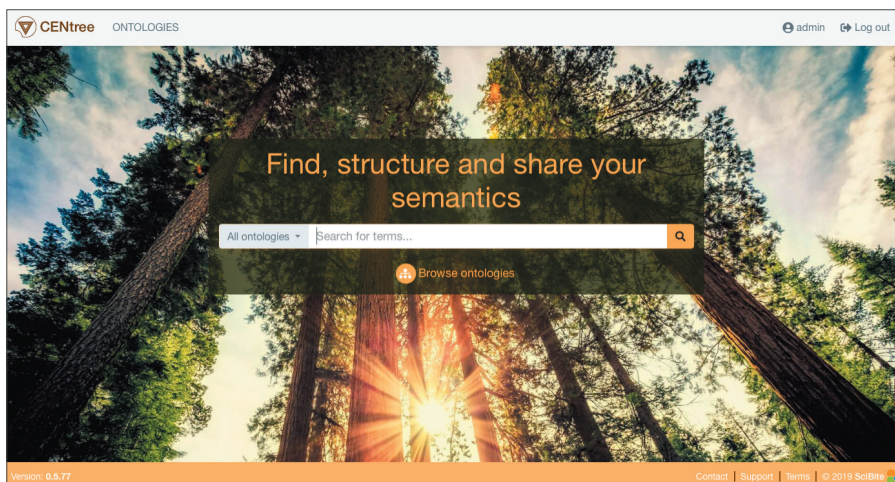


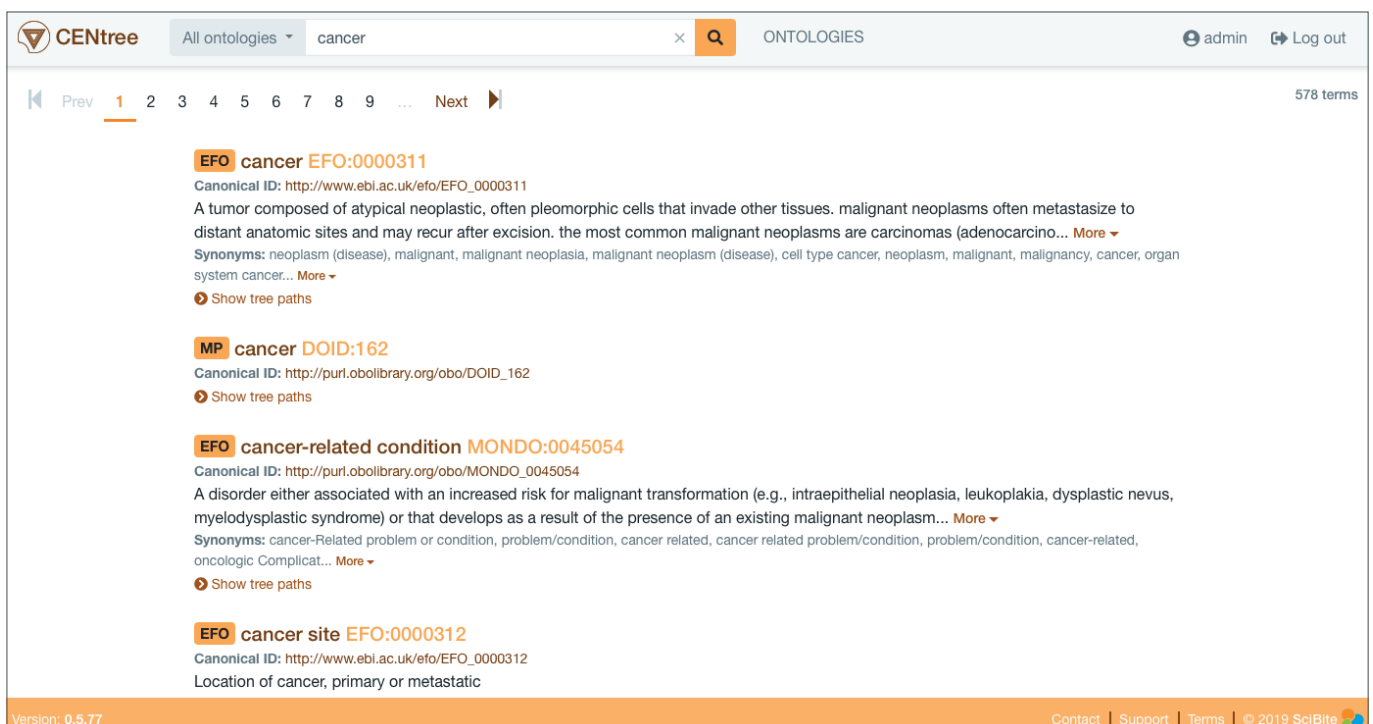
Datasheet

Centralised ontology management tool for browsing and editing public and proprietary ontologies

Managing multiple and evolving ontologies from public and proprietary sources requires significant effort and presents organisations with challenges around control and interoperability. SciBite has created CENTree, a collaborative ontology management platform that delivers easy to use ontology management capabilities built on a flexible and robust enterprise-ready platform.



- ◆ **COLLABORATIVE**
Democratises ontology editing
- ◆ **COMPREHENSIVE**
Centralises and controls editing
- ◆ **EXTENSIBLE**
Rich API simplifies integration with search



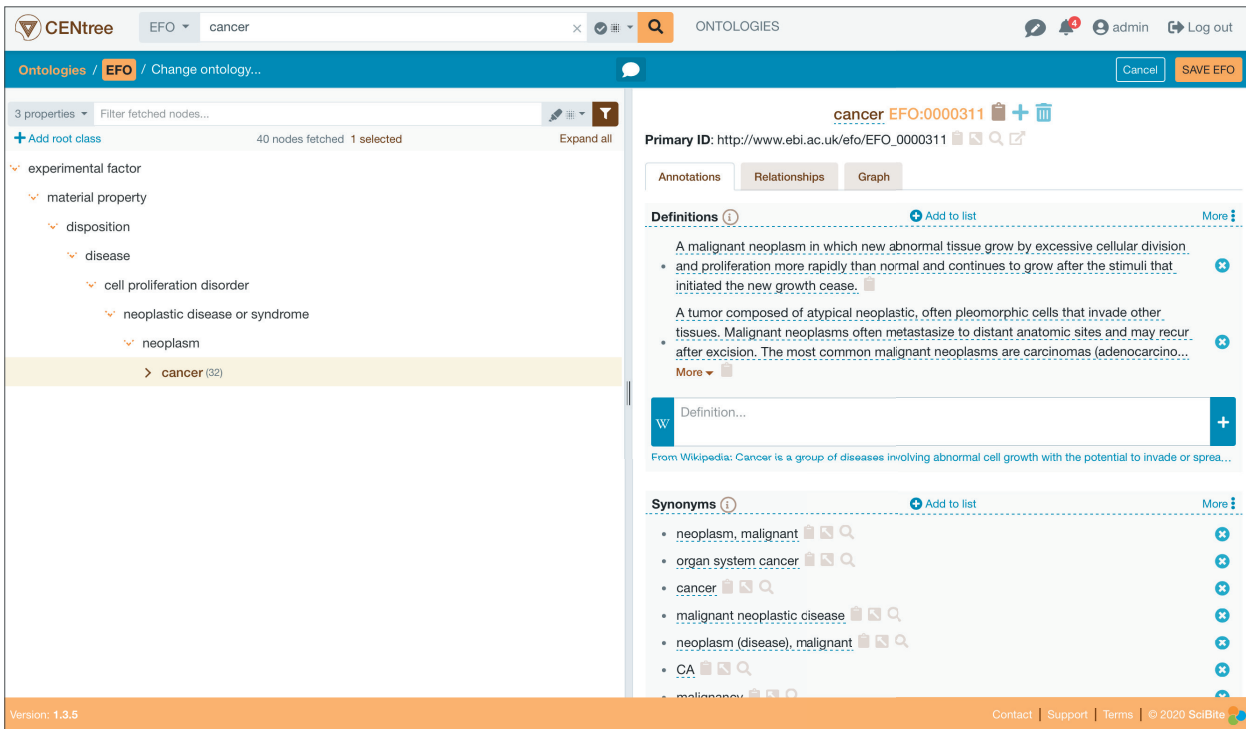
Rapid access

CENtree has been designed to recognise and ingest multiple publicly available ontologies (currently ~40 Ontologies) using an easy one-click loading mechanism. Ontology browsing is oriented around a tree or graph view tailored to visualise biomedical ontologies, their entities, and their relationships. Complex language associated with formal ontologies is replaced with user-friendly terminology.

CENtree enables the creation of custom ontologies from both public and proprietary ontologies, with the steps for creating these application ontologies stored and replayable for ease of update.

Collaborative

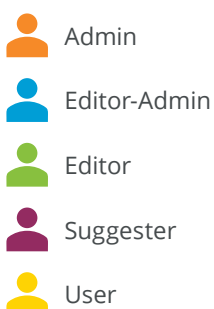
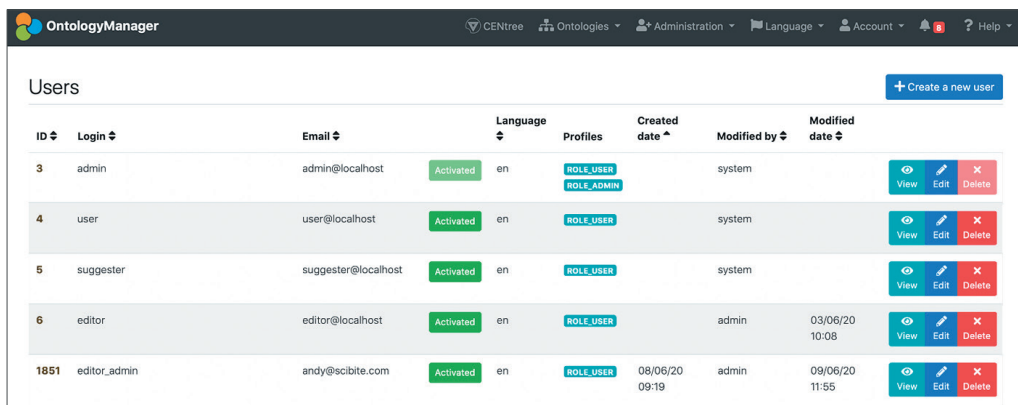
Ontology editing activates an overlay which makes the browser editable. Adding new classes and editing/enriching existing classes is simplified to enable a broader audience to contribute. Edits are captured using open standards to make the resulting ontology reusable elsewhere. A deep learning component helps a user to edit by suggesting possible relationship connections for a given class.



The screenshot shows the CENtree web interface. The top navigation bar includes 'CENtree', 'EFO', 'cancer', and 'ONTOLOGIES'. The main content area is titled 'Ontologies / EFO / Change ontology...'. On the left, a tree view shows a hierarchy of classes: 'experimental factor' > 'material property' > 'disposition' > 'disease' > 'cell proliferation disorder' > 'neoplastic disease or syndrome' > 'neoplasm' > 'cancer (32)'. The right panel displays details for 'cancer EFO:0000311', including its Primary ID, Annotations, Relationships, and Graph tabs. The 'Definitions' section shows two definitions: 'A malignant neoplasm in which new abnormal tissue grow by excessive cellular division and proliferation more rapidly than normal and continues to grow after the stimuli that initiated the new growth cease.' and 'A tumor composed of atypical neoplastic, often pleomorphic cells that invade other tissues. Malignant neoplasms often metastasize to distant anatomic sites and may recur after excision. The most common malignant neoplasms are carcinomas (adenocarcino...'. The 'Synonyms' section lists terms like 'neoplasm, malignant', 'organ system cancer', 'cancer', 'malignant neoplastic disease', 'neoplasm (disease), malignant', and 'CA'. The footer indicates 'Version: 1.3.5' and '© 2020 SciBite'.

Comprehensive

Provenance is captured for every edit action, with user comments to explain edits, and the ability to roll back from an undesired change. A governance model controls the ability to affect change through roles such as 'suggestor' (can suggest an edit), 'editor' (can make live edits and approve suggestions), 'viewer' (can browse), 'editor-admin' (can administer designated ontologies) and 'administrator' (can perform all tasks and add ontologies).

The screenshot shows the 'OntologyManager' web interface. The top navigation bar includes 'OntologyManager', 'CENTree', 'Ontologies', 'Administration', 'Language', 'Account', and 'Help'. The main content area is titled 'Users' and features a '+ Create a new user' button. Below is a table listing users with columns for ID, Login, Email, Language, Profiles, Created date, Modified by, and Modified date. Each user row includes 'View', 'Edit', and 'Delete' buttons.

ID	Login	Email	Language	Profiles	Created date	Modified by	Modified date
3	admin	admin@localhost	en	ROLE_USER ROLE_ADMIN		system	
4	user	user@localhost	en	ROLE_USER		system	
5	suggester	suggester@localhost	en	ROLE_USER		system	
6	editor	editor@localhost	en	ROLE_USER		admin	03/06/20 10:08
1851	editor_admin	andy@scibite.com	en	ROLE_USER	08/06/20 09:19	admin	09/06/20 11:55

Extensible

CENtree employs a Git-like approach to managing change with our custom versioning engine, empowering an organisation to keep current with the latest public versions, whilst internally adding new content such as extending with new classes or fixing errors. The CENtree interface is founded on a flexible API which can be directly integrated into existing systems. As a SaaS (Software as a Service) solution, CENtree is secure and simple to deploy, includes seamless product upgrades, along with expanded infrastructure support and Professional Services to support integrations and ontology curation and advice. Combining master data management and semantic analytics capabilities of SciBite's platform offers a unique approach in managing scientific information in the journey to clean data.

swagger
default (v2/api-docs) ▾

OntologyManager API

OntologyManager API documentation

account-resource : Account Resource Show/Hide | List Operations | Expand Operations

ontology-edit-get-resource : Ontology Edit Get Resource Show/Hide | List Operations | Expand Operations

GET	/api/ontologies/edit	getAllOntologyEdits
GET	/api/ontologies/edit/{editId}	getOntologyEdit
GET	/api/ontologies/{ontologyId}/class/{classId}/edits	entityClassEdits
GET	/api/ontologies/{ontologyId}/edits	edits
GET	/api/ontologies/{ontologyId}/edits/committed	committedEdits
GET	/api/ontologies/{ontologyId}/edits/{editId}	getEdit
GET	/api/ontologies/{ontologyId}/entity/newId	getNewEntityId
GET	/api/ontologies/{ontologyId}/export	exportToFile
GET	/api/ontologies/{ontologyId}/exportAsTermiteAugFile	exportToAugFile

About SciBite

SciBite's data-first, semantic analytics software is for those who want to innovate and get more from their data. At SciBite we believe data fuels discovery and we are leading the way with our pioneering infrastructure that combines the latest in machine learning with an ontology-led approach to unlock the value of scientific content. Supporting the world's leading scientific organisations with use-cases from discovery through to development, SciBite's suite of fast, flexible, deployable API technologies empower our customers, making it a critical component in scientific, data-led strategies. Contact us to find out how we can help you get more from your data.

To learn how SciBite can unlock the value of your data, speak to one of our experts today or email us at contact@scibite.com

Head Office:

SciBite Limited
 BioData Innovation Centre
 Wellcome Genome Campus
 Hinxton, Cambridge CB10 1DR
 United Kingdom

 www.scibite.com
 contact@scibite.com
 LinkedIn: SciBite
 Twitter: @SciBite
 +44 (0)1223 786 129