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EDAM ontology, tools, and community

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EDAM is an ontology of data analysis and data management in life sciences. The structure of EDAM is relatively simple, divided into 4 main sub-ontologies:




- Topic
- Operation
- Data (incl. Identifier)
- Format

EDAM is used in numerous resources including Galaxy, bio.tools, Debian, WorkflowHub, the ELIXIR Europe training portal TeSS, or BIII (the BiImage Informatics Index). Thanks to the annotations with EDAM, computational tools, workflows, data, and educational materials are easier to **find, compare, choose, and integrate**.

 In **Galaxy**, EDAM is used for annotation of tools, and of types of data/data formats. There is a new option for administrators of a Galaxy server, to visualise the tools panel sorted by EDAM concepts ([galaxyproject/galaxy#10592](https://galaxyproject.org/galaxy#10592)).

EDAM contributes to open science also by serving as an ontology for provenance metadata, making the data more understandable, findable, and comparable. EDAM and its applications lower the barrier and effort for scientists and citizens alike, towards doing scientific research in a more **open, reliable, and inclusive** way.

The EDAM community brings together software engineers and science experts (academic, industrial, citizen), professionals & volunteers. Along with the ontology, this community has developed a number of tools that enhance user experience with EDAM:

-  **EDAM Browser** is a lightweight & fast web-based ontology browser that provides a number of user-oriented features, such as aggregated search across various EDAM-annotated resources (e.g. Bio.tools, TeSS, ...).
-  **EDAMmap** is a tool for text mining EDAM concepts from articles.
-  **EDAM Popovers** is a Firefox add-on for showing details of EDAM concepts found in a website. Great for Galaxy code on GitHub. 🙌🙌