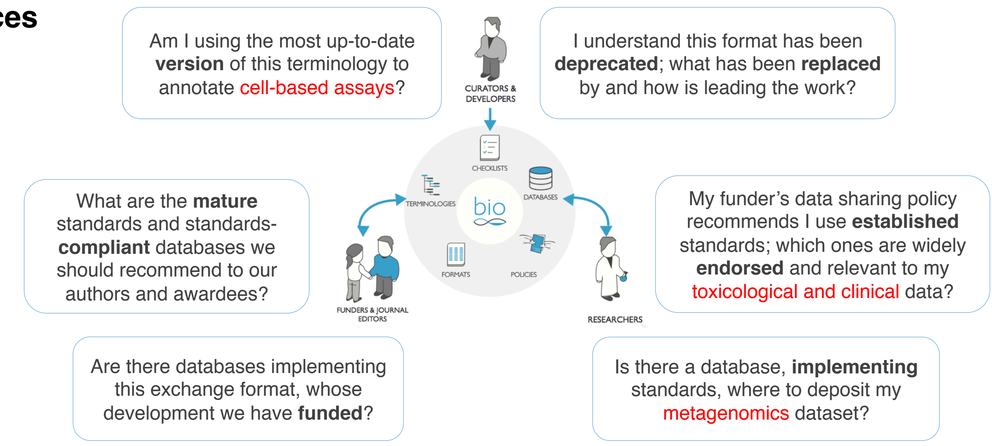
biosharing.org Information Resources

A curated, searchable portal of inter-related data standards, databases, and policies in the life, environmental and biomedical sciences



BioSharing maps the landscape of community developed standards, databases and data policies, ensuring they are registered, informative and discoverable, by monitoring their:

- development, evolution and integration
- implementation and use in databases
- adoption in data policies by funders and journals
- maturity, collecting metrics of usage and levels of endorsement

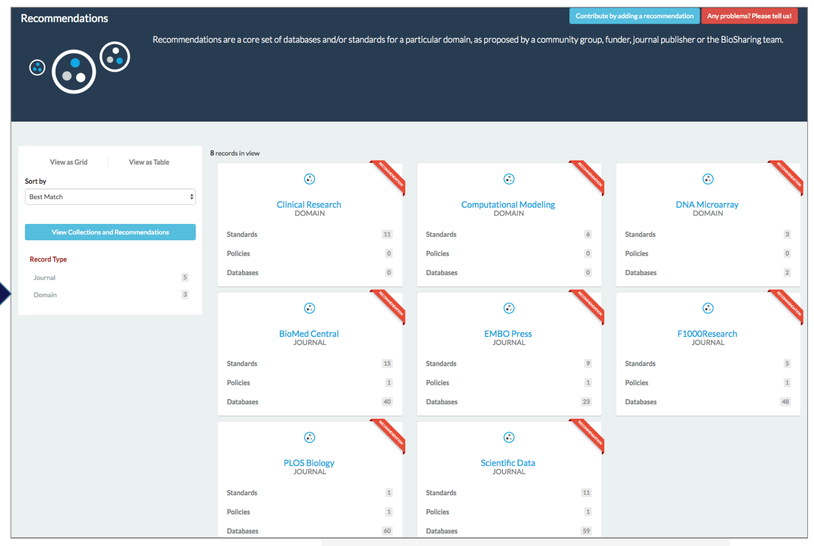
BioSharing offers extensive content, a network of linked collaborators, and growing visibility and recognition from groups and organizations, including funders and journals.

With over 600+ standards and 700+ databases it's often difficult to know which are the most relevant resources for a specific domain.

This is how we can help you find what you need!

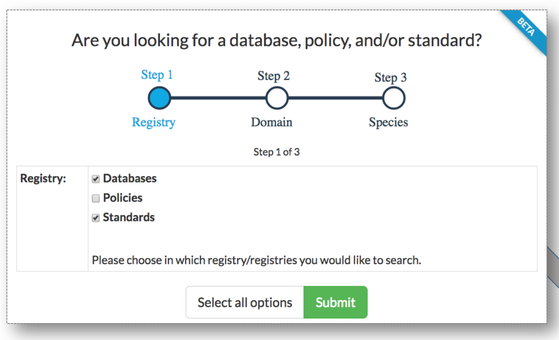
We provide you several search options

ask BioSharing NEW



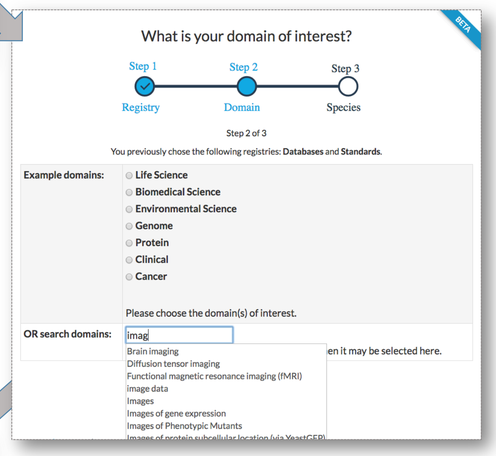
Recommendations

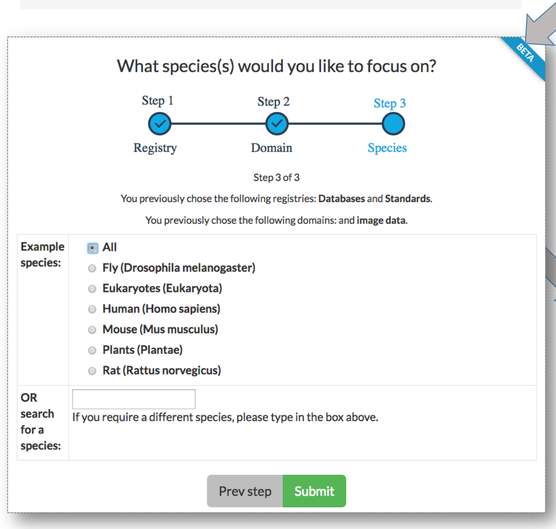
A core-set of resources that are selected and proposed by a community group or organization.

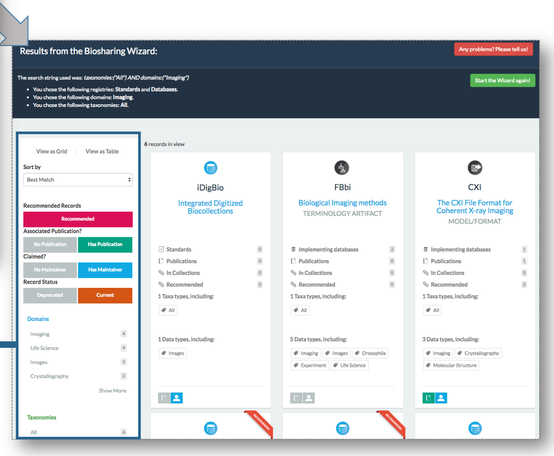


Wizard (beta)

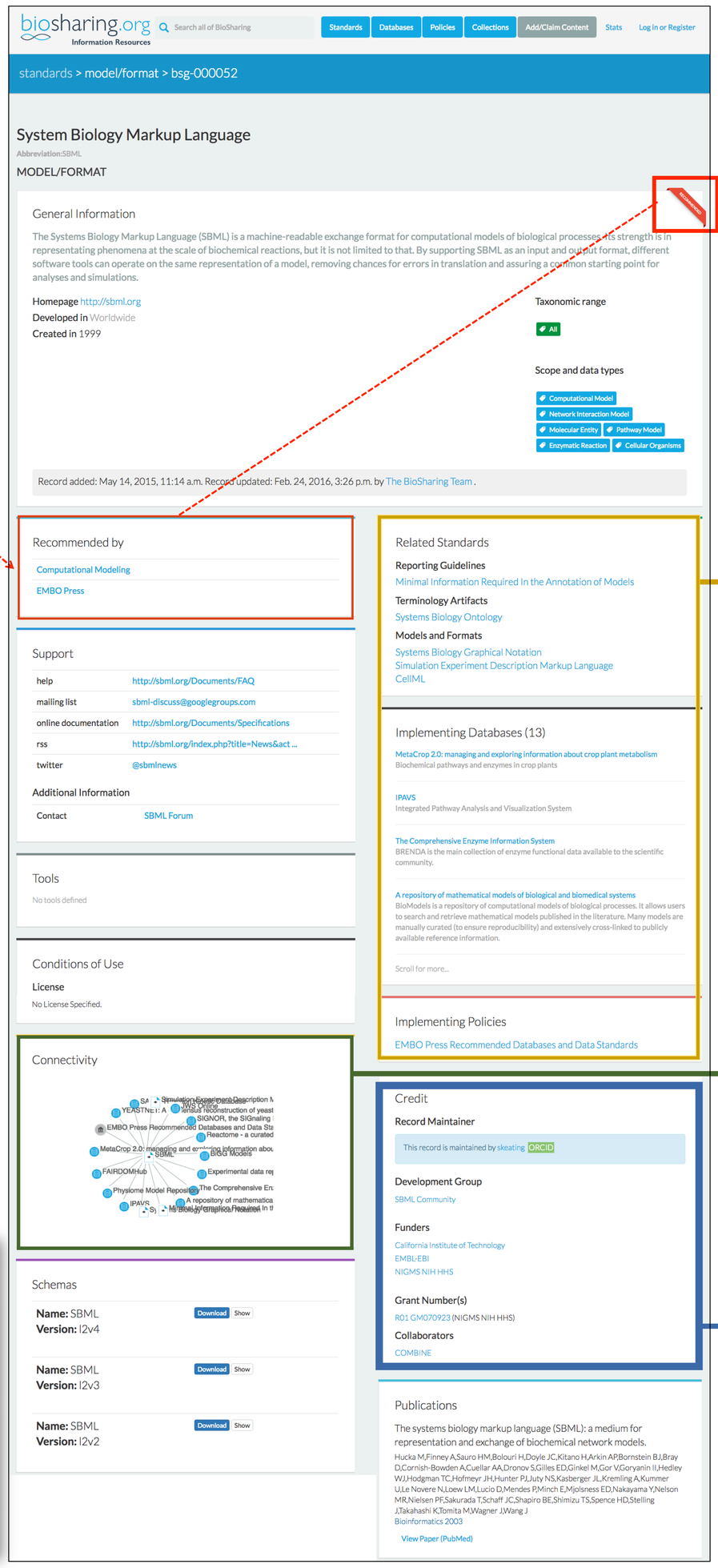
It guides you step-by-step through a series of questions, narrowing down the number of search results.
Progressively, further options are added to help you refining the search by funder, license type etc.







Search results can be refined using our faceted-search matrix, also filtering for recommended records only.



Recommendation indicator

Resources that are recommended by a community group and/or funder, journal publisher are identified by a ribbon.
The BioSharing curation team works with and for the communities to identify the resources to recommend.

Relations and implementations

Standards, databases and policies are interlinked, where relevant.
A standard can be related to others, highlighting their combined or complementary use (e.g. SMBL format uses SBO terminology).
The databases implementing the standards are also linked, along with data policies (by e.g. journals, funders) that recommend the standard.

Landscape mapping

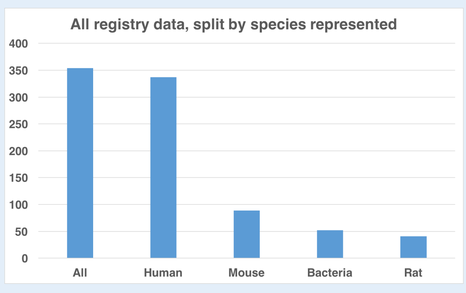
Visualizing the relations between and among resources is essential to provide a view of their place in the landscape and help navigating between records.
We are progressively adding these connectivity maps across the site, e.g. to visualize recommendations and search results.

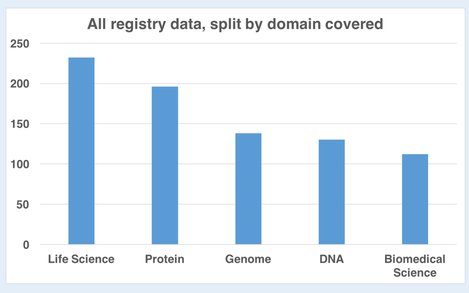
Credit and acknowledgements

All records can be claimed by the owner of the resource (a person or organization) to edit and update the description, as well as acknowledging contributors, funders etc.
The BioSharing curation team checks and enrich all the contributed descriptions.

Content types and some statistics to date

- >1300 records
- > 600 standards:
  - 347 Terminologies (e.g. Disease Ontology)
  - 198 Models/Formats (e.g. SBML)
  - 86 Reporting guidelines (e.g. MIRIAM)
- > 700 databases
- > 26 policies
- and in curation: other standards type, e.g. common data elements





If you are a Standard and/or Database curators/maintainers here is how we can help you

By *registering* your resource:
- You gain increased exposure outside of your immediate community. This facilitates the broader adoption (e.g. by journals, funders' and other data policies) and use of your work (e.g. by researchers and other developers).

By *claiming* your resource:
- You can ensure it is an accurate reflection of your work, and add any missing information. By claiming, you also gain personal acknowledgement for your work and provide a contact point for prospective users.

To check if your database or standard is already in BioSharing, simply use one of the search boxes and type in the name of your resource, the domain (e.g. 'protein structure'), country of origin, or URL. If your resource is not there, you can register it by clicking on the 'Contribute new content' link on the homepage.

If you work on an ontology that is part of the OBO Foundry or BioPortal then we've already done the work for you, as all ontologies (in our Terminology Artifact class) are automatically imported into BioSharing.
By maintaining your ontologies at these sites you will automatically keep the BioSharing record updated.

Peter McQuilton
Alejandra Gonzalez-Beltran
Massimiliano Izzo
Allyson L. Lister
Eamonn Maguire
Philippe Rocca-Serra
Milo Thurston
Susanna-Assunta Sansone

Oxford e-Research Centre
University of Oxford

Team funded by

NIH Big Data to Knowledge (BD2K) bioCADDIE CEDAR
European Commission
University of Oxford
elixir excelerate elixir United Kingdom
Roche eTRIKS elpia imi
bbsrc
MRC Medical Research Council
Natural Environment Research Council

BioSharing is a contribution from the ELIXIR-UK node to the ELIXIR excelerate programme. BioSharing also operates as a community-driven resource under an RDA and FORCE11 working group.

Our community includes

EMBOpress · Oxford University Press · PLOS · OBO · ISB International Society for Biocuration · (GIGA)n SCIENCE · F1000 Faculty of 1000 · BioMed Central The Open Access Publisher · DRYAD · nature publishing group npg