

# What are third-party or independent data sources?

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**ASCEND has the world’s most powerful and comprehensive biomedical experiment-focused dataset. In addition to our publication corpus, our database is further enriched by a vast library of scientifically trusted third-party sources to surface critical biological/experimental insights and inform our underlying ontological libraries.**

We curate and evaluate scientific databases/datasets that provide the most relevant biological data, libraries, and biomedical insights to ASCEND. We leverage these databases through dedicated partnerships and various licensing agreements. We constantly evaluate our databases and underlying libraries to ensure they provide the most value to scientists.

Example datasets that can be directly surfaced as evidence across the platform:

- Online Mendelian Inheritance in Man (OMIM)
- Food and Drug Administration (FDA)
- Mouse Genome Informatics (MGI)
- Human Protein Atlas (HPA)
- UniProt
- Kyoto Encyclopedia of Genes and Genomes (KEGG)
- Retraction Watch
- Clinicaltrials.gov
- dbSNP

Third-party databases that enrich our underlying ontologies, libraries, and scientific insights:

Database	License Type	Link
DrugBank	Licensed through a partnership	N/A
Kyoto Encyclopedia of Genes and Genomes (KEGG)	Licensed through a partnership	N/A

Database	License Type	Link
Online Mendelian Inheritance in Man (OMIM)	Licensed through a partnership.  This database/product contains information obtained from the Online Mendelian Inheritance in Man® (OMIM®) database, which has been obtained through a license from the Johns Hopkins University, which owns the copyright thereto.	N/A
Small Molecule Pathway Database	Licensed through a partnership	N/A
miRBase	License type: Public Domain	<a href="https://mirbase.org/download/CURRENT/LICENSE/">https://mirbase.org/download/CURRENT/LICENSE/</a>
ENSEMBL	Not a recognized license type, permissive	<a href="https://useast.ensembl.org/info/about/legal/disclaimer.html">https://useast.ensembl.org/info/about/legal/disclaimer.html</a>
MONDO Monarch	License type: CC-BY 4.0	<a href="https://mondo.monarchinitiative.org/#license">https://mondo.monarchinitiative.org/#license</a>
Entrez	License type: Public Domain	<a href="https://www.ncbi.nlm.nih.gov/home/about/policies/">https://www.ncbi.nlm.nih.gov/home/about/policies/</a>
Human Phenotype Ontology	Not a recognized license type, permissive	<a href="https://hpo.jax.org/license">https://hpo.jax.org/license</a>
Gene Ontology	License type: CC-BY 4.0	<a href="https://geneontology.org/page/use-and-license">https://geneontology.org/page/use-and-license</a>

Database	License Type	Link
NCBI Taxonomy	License type: Public Domain	<a href="https://www.ncbi.nlm.nih.gov/home/about/policies/">https://www.ncbi.nlm.nih.gov/home/about/policies/</a>
Therapeutic Target Database	Not a recognized license type, permissive	<a href="https://ttd.idrblab.cn/citation">https://ttd.idrblab.cn/citation</a>
NCBI Gene	License type: Public Domain	<a href="https://www.ncbi.nlm.nih.gov/home/about/policies/">https://www.ncbi.nlm.nih.gov/home/about/policies/</a>
OrthoDB	License type: CC-BY 4.0	<a href="https://www.orthodb.org/?page=disclaimer">https://www.orthodb.org/?page=disclaimer</a>
Uberon	License type: CC-BY 3.0	<a href="https://www.ebi.ac.uk/ols4/ontologies/uberon">https://www.ebi.ac.uk/ols4/ontologies/uberon</a>
BioGrid	License type: MIT license, copyright 2021 Mike Tyers	<a href="https://downloads.thebiogrid.org/File/LICENSE.txt">https://downloads.thebiogrid.org/File/LICENSE.txt</a>
UniProt	License type: CC-BY 4.0	<a href="https://www.uniprot.org/help/license">https://www.uniprot.org/help/license</a>
STRING	License type: CC-BY 4.0	<a href="https://string-db.org/cgi/accessfooter_active_subpage=licensing">https://string-db.org/cgi/accessfooter_active_subpage=licensing</a>
Human Metabolome Database	Licensed through a partnership	N/A
MarkerDB	Licensed through a partnership	N/A
Reactome	License type: CC0	<a href="https://reactome.org/license">https://reactome.org/license</a>
Human Protein Atlas	License type: CC-BY-SA 4.0	<a href="https://www.proteinatlas.org/about/licence">https://www.proteinatlas.org/about/licence</a>

Database	License Type	Link
BioAssay Ontology	License type: CC-BY 4.0	<a href="http://bioassayontology.org/bioassayontology/">http://bioassayontology.org/bioassayontology/</a>
Drug Gene Interaction Database (DGIdb)	License type: MIT license	<a href="https://github.com/dgldb/dgldb/blob/master/LICENSE">https://github.com/dgldb/dgldb/blob/master/LICENSE</a>
ChEMBL	License type: CC-BY-SA 3.0	<a href="https://www.ebi.ac.uk/chembl/">https://www.ebi.ac.uk/chembl/</a>
ChEBI	License type: CC-BY 4.0	<a href="https://www.ebi.ac.uk/training/online/courses/chebi-quick-tour/what-is-chebi">https://www.ebi.ac.uk/training/online/courses/chebi-quick-tour/what-is-chebi</a>
dbSNP	License type: Public Domain	<a href="https://www.ncbi.nlm.nih.gov/home/about/policies/">https://www.ncbi.nlm.nih.gov/home/about/policies/</a>
Cell Ontology	License type: CC-BY 4.0	<a href="https://www.ebi.ac.uk/ols4/ontologies/cl">https://www.ebi.ac.uk/ols4/ontologies/cl</a>
Cellosaurus	License type: CC-BY 4.0	<a href="https://www.cellosaurus.org/description.html">https://www.cellosaurus.org/description.html</a>
Medical Subject Headings (MeSH)	License type: Public Domain	<a href="https://www.ncbi.nlm.nih.gov/home/about/policies/">https://www.ncbi.nlm.nih.gov/home/about/policies/</a>
OpenFDA	License type: CC0	<a href="https://open.fda.gov/license/">https://open.fda.gov/license/</a>
Drugs@FDA	License type: CC0	<a href="https://open.fda.gov/license/">https://open.fda.gov/license/</a>
ClinicalTrials.gov	License type: Public Domain	<a href="https://www.ncbi.nlm.nih.gov/home/about/policies/">https://www.ncbi.nlm.nih.gov/home/about/policies/</a> .
cBioportal	License type: GNU Affero General Public License v3.0	<a href="https://github.com/cBioPortal/cbioportal/blob/master/LICENSE">https://github.com/cBioPortal/cbioportal/blob/master/LICENSE</a>
Genomic Data Commons	License type: Public Domain	<a href="https://www.cancer.gov/policies/copyright-reuse">https://www.cancer.gov/policies/copyright-reuse</a>

Database	License Type	Link
gnomAD	License type: CC0	<a href="https://gnomad.broadinstitute.org/policies">https://gnomad.broadinstitute.org/policies</a>
AlphaFold	License type: CC-BY 4.0	<a href="https://alphafold.ebi.ac.uk/">https://alphafold.ebi.ac.uk/</a>
The Cancer Genome Atlas	License type: Public Domain	<a href="https://www.cancer.gov/ccg/research/genome-sequencing/tcga">https://www.cancer.gov/ccg/research/genome-sequencing/tcga</a>
Genotype-Tissue Expression (GTEx)	License type: Public Domain	<a href="https://gtexportal.org/home/license">https://gtexportal.org/home/license</a>