What are third-party or independent data sources?

> **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 <u>third-party sources</u> 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

Example third-party databases that enrich our underlying ontologies libraries and scientific insights:

- DrugBank

- NCBI Gene | *License type: CC0*

- Reactome | *License type: CC-BY 4.0*

- miRBase | *License type: CC0*

- MONDO Monarch | *License type: CC-BY 4.0*

- Entrez | *License type: CC0*

- Uberon | *License type: CC-BY 4.0*

- BioGrid | *MIT license, copyright 2021 Mike Tyers*

- STRING | *License type: **CC-BY 4.0***

- BioAssay Ontology | *License type: **CC-BY 4.0***

- Gene Ontology | *License type: **CC-BY 4.0***

- Human Phenotype Ontology | *License type: **CC0***

- ChEBI | *License type: **CC-BY 4.0***

- dbSNP | License type: **CC0**