Structured biological relationships data from EmBiology

Authoritative, structured relationship data extracted against expert-created ontologies, based on full-text, cross-publisher content.

**Example use cases**
- Improve data-driven drug target and biomarker identification and prioritization.
- Perform high-throughput querying and identify broad or narrow relationships from the full text.
- Disease exploration
- Custom reports and dashboards on specific targets or diseases
- Augment internal datasets with robust biological relationships
- Empower machine learning and AI with structured, interconnected data

**Dataset content**

The Dataset currently includes 18.6M biological relations from >36M MEDLINE abstracts and >7.6M full-text articles. These include protein-protein interactions, and effects of proteins, compounds and cells on diseases and cell processes. The information comes from full-text literature (Elsevier’s ScienceDirect and other high impact publishers) and public and proprietary databases.

- Small molecule protein interactions from Reaxys: 1.3M
- Clinicaltrials.gov: 150,000
- 600,000 relations from public databases of protein-protein, small molecule protein interactions, MiRNA effects, SNP annotations and more

We offer the biology data as RDF/XML, with the option of additional instructions or consultancy on how to load it into a graph database (neo4j) or a relational database (PostgreSQL).

We also offer additional SciBite powered semantic enrichment if using the data to enrich custom proprietary content. Our Expert Services team can also provide custom reports, analysis and subsets of data, dependent on need.

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