



In Brief

LexiLink™: The Vocabulary Management Tool

The Life Sciences rely on lexicons and ontologies to describe, analyze, and drive scientific investigations. LexiLink™ is the first and only application for building, curating and managing **multiple** lexicons and ontologies in **one enterprise-wide Web-based application**. The magic of LexiLink is this: when you assemble a new lexicon that draws relevant parts from existing lexicons and ontologies to meet a particular need, LexiLink manages the provenance of concepts and attributes and alerts you to specific changes in source lexicons that are relevant to you. This allows you to quickly absorb changes and new versions directly into your new lexicon.

LexiLink is the premiere tool for organizing complex knowledge bases through collaborative curation and alignment of multiple lexicons and ontologies. Based on Arity's innovative data storage and interpretation architecture, LexiLink offers faster and smarter searching, matching, classification, and integrity verification. LexiLink automatically fixes logic errors in imported data (such as parent relationships to ancestors) – a feature not available in any other lexicon manager. And, LexiLink comes with Web service API's to further exploit the power of the poly-ontology. With LexiLink, users can view terms with full synonym expansion and annotate entries, establish links between terms, and perform fast, powerful searches across lexicons.

LexiLink enables productivity by providing curators with all the tools they need to solve technical language issues. LexiLink can import many of the widely used lexicons and ontologies in the biomedical field such as UMLS extracts, MeSH, MedDRA, GO, GOA, and ChEBI. LexiLink can manage vocabularies with millions of entries. It's easy to incorporate existing vocabularies as well as create new ones within LexiLink. With its sophisticated API, tools, interfaces and services LexiLink supports:

- Different levels of abstraction for different audiences
- Unlimited cross references between multiple lexicons
- Alerts when any one of a set of linked concepts is changed
- Flexible import/export features (for example, exporting data to text mining applications)

With LexiLink™, enterprise-wide management of multiple lexicons and ontologies sets the stage for conducting scientific investigations and accelerating scholarship.

