

BEL to RDF Home

Project

Goals

Convert BEL to an RDF data model to store richer semantics and enhance our query capabilities.

The following use cases are in mind:

- Connect to life sciences dataset (e.g. owl:sameAs for namespaces, annotations)
- Namespace canonicalization and translation
- Validation of BEL syntax and semantics
- Extract subsets of BEL knowledge (e.g. by biological context, by citation, by curation method, etc.)
- Orthologize BEL knowledge
- Identify contradicting knowledge based on signal propagation along pathways

RDF Model

The following data types need to be converted to RDF to support these uses.

- [BEL Resources](#)
- [Annotations](#)
- [BEL](#)

Queries

[BEL Sparql queries](#)

Technology

[bel2rdf](#): (**obsolete; use bel.rb**) Initial proof-of-concept code to convert BEL to RDF

[bel.rb](#) (master branch): BEL to RDF conversion being merged into ruby gem as an optional feature.