Resource Summary Report

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Blip: Biomedical Logic Programming

RRID:SCR_005733
Type: Tool

Proper Citation

Blip: Biomedical Logic Programming (RRID:SCR_005733)

Resource Information

URL: http://www.blipkit.org/

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Description: Biomedical Logical Programming (Blip) is a research-oriented deductive database and prolog application library for handling biological and biomedical data. It includes packages for advanced querying of ontologies and annotations. Blip underpins the Obol tool. Here are some distinguishing characteristics of Blip * Lightweight. Bloat-free: Blip only has as many modules as it needs to do its job. * Fast. * Declarative. Say what you want to do, not how you want to do it * Blip can be Query-oriented: specify your data sources and ask your query * Blip can be Application-oriented: it is designed to be used as an application library used by other bioinformatics tools * Mature and fully functional ontology module for handling both OBO-style ontologies and OWL ontologies. * Modules for handling biological sequences and sequence features. (currently limited functionality, added as needed) * A systems biology module for querying pathway and interaction data. (currently limited functionality, added as needed) * Relational database integration. SQL can be viewed as a highly restricted dialect of Prolog. Although the SWI-Prolog in-memory database is fast and scalable, sometimes it is nice to be able to fetch data from an external database. Blip contains a generic SQL utility module and predicate mappings for the GO database, Ensembl and Chado * Integration with a variety of bioinformatics file formats. SWI-Prolog has a variety of fast libraries for dealing with XML, RDF and tabular data files. Blip provides bridges from bio file formats encoded using these syntaxes into its native models. For other syntaxes, Blip seamlessly integrates other packages such as BioPerl and go-perl. Although these dependencies require extra installation, there is no point reinventing the wheel * Rapid development of web applications. Blip extends SWI-Prolog""s excellent http support with a simple and powerful logical-functional-programming style application server, serval. This has been used to prototype a fully-featured next-generation replacement for the GO project amigo browser. * Scalable. Blip is not intended to be a toy system on toy data (although it is happy to be used as a toy if you like!). It is intended to be used as an application component and a tool operating on real-world biological and biomedical data Blip is written in SWI-Prolog, a fast, robust and scalable implementation of ISO Prolog. Platform: Windows compatible, Mac

OS X compatible, Linux compatible, Unix compatible

Abbreviations: Blip, blipkit

Synonyms: Blip - Biomedical Logic Programming, Biomedical Logical Programming (Blip), Biomedical Logic Programming

Resource Type: software resource

Keywords: biology, biomedical, ontology, annotation, software library, bioinformatics, module

Availability: GNU Lesser General Public License

Resource Name: Blip: Biomedical Logic Programming

Resource ID: SCR_005733

Alternate IDs: nlx_149193

Record Creation Time: 20220129T080232+0000

Record Last Update: 20260801T190258+0000

Ratings and Alerts

No rating or validation information has been found for Blip: Biomedical Logic Programming.

No alerts have been found for Blip: Biomedical Logic Programming.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Bannister S, et al. (2018) Suppressing the Chills: Effects of Musical Manipulation on the Chills Response. Frontiers in psychology, 9, 2046.

Champoux F, et al. (2011) Feel what you say: an auditory effect on somatosensory perception. PloS one, 6(8), e22829.