BioPerl

RRID:SCR_002989
Type: Tool

Proper Citation

BioPerl (RRID:SCR_002989)

Resource Information

URL: [http://www.bioperl.org](http://www.bioperl.org)

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Description: BioPerl is a community effort to produce Perl code which is useful in biology. This toolkit of perl modules is useful in building bioinformatics solutions in Perl. It is built in an object-oriented manner so that many modules depend on each other to achieve a task. The collection of modules in the bioperl-live repository consist of the core of the functionality of bioperl. Additionally auxiliary modules for creating graphical interfaces (bioperl-gui), persistent storage in RDMBS (bioperl-db), running and parsing the results from hundreds of bioinformatics applications (Run package), software to automate bioinformatic analyses (bioperl-pipeline) are all available as Git modules in our repository. The BioPerl toolkit provides a library of hundreds of routines for processing sequence, annotation, alignment, and sequence analysis reports. It often serves as a bridge between different computational biology applications assisting the user to construct analysis pipelines. This chapter illustrates how BioPerl facilitates tasks such as writing scripts summarizing information from BLAST reports or extracting key annotation details from a GenBank sequence record. BioPerl includes modules written by Sohel Merchant of the GO Consortium for parsing and manipulating OBO ontologies. Platform: Windows compatible, Mac OS X compatible, Linux compatible, Unix compatible

Abbreviations: BioPerl

Resource Type: source code, software resource, software toolkit, narrative resource, data or information resource, software repository, wiki

Defining Citation: PMID:12368254, DOI:10.1101/gr.361602

Keywords: perl, biology, ontology, library, sequence, analysis, computational, application,
pipeline, bioinformatics, sequence, annotation, module, life science, python, java, genome, software library, parse, manipulate, bio.tools

Funding Agency: NIGMS, NHGRI, NHGRI, NHGRI, NHGRI

Availability: Artistic License

Resource Name: BioPerl

Resource ID: SCR_002989

Alternate IDs: nif-0000-30188, biotools:bioperl, OMICS_04849


Ratings and Alerts

No rating or validation information has been found for BioPerl.

No alerts have been found for BioPerl.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 363 mentions in open access literature.

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


Garg V, et al. (2022) Chromosome-length genome assemblies of six legume species provide insights into genome organization, evolution, and agronomic traits for crop improvement. Journal of advanced research, 42, 315.


Di L, et al. (2021) Maximum antigen diversification in a lyme bacterial population and evolutionary strategies to overcome pathogen diversity. The ISME journal.
