

Resource Summary Report

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BioMoby

RRID:SCR_013386

Type: Tool

Proper Citation

BioMoby (RRID:SCR_013386)

Resource Information

URL: <http://www.biomoby.org/>

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Description: The MOBY-S system defines an ontology-based messaging standard through which a client will be able to automatically discover and interact with task-appropriate biological data and analytical service providers, without requiring manual manipulation of data formats as data flows from one provider to the next. The BioMoby project was initiated in 2001 from within the model organism database community. It aimed to standardize methodologies to facilitate information exchange and access to analytical resources, using a consensus driven approach. Six years later, the BioMoby development community is pleased to announce the release of the 1.0 version of the interoperability framework, registry Application Programming Interface and supporting Perl and Java code-bases. Together, these provide interoperable access to over 1400 bioinformatics resources worldwide through the BioMoby platform, and this number continues to grow. Here we highlight and discuss the features of BioMoby that make it distinct from other Semantic Web Service and interoperability initiatives, and that have been instrumental to its deployment and use by a wide community of bioinformatics service providers. Sponsors: Funding was provided by Genome Prairie and Genome Alberta A Bioinformatics Platform for Genome Canada"; Canadian Institutes for Health Research; The Natural Sciences and Engineering Research Council of Canada; The Heart and Stroke Foundation for BC and Yukon; The EPSRC through the myGrid (GR/R67743/01, EP/C536444/1, EP/D044324/1, GR/T17457/01) e-Science projects; The Spanish National Institute for Bioinformatics (INB) through Fundacin Genoma Espaa; The Generation Challenge Programme (GCP; <http://www.generationcp.org>) of the Consultative Group for International Agricultural Research. :Keywords: Ontology, Messaging, Standard, Client, Automatically, Discovery, Biological, Data, ANalytical, Service, Model, Organism, Database, Java, Platform, Semantic, Bioinformatics,

Synonyms: BioMoby

Resource Type: controlled vocabulary, ontology, data or information resource

Resource Name: BioMoby

Resource ID: SCR_013386

Alternate IDs: nif-0000-30186

Record Creation Time: 20220129T080315+0000

Record Last Update: 20260728T043424+0000

Ratings and Alerts

No rating or validation information has been found for BioMoby.

No alerts have been found for BioMoby.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#).

Pradeepkiran JA, et al. (2019) Structure Based Design and Molecular Docking Studies for Phosphorylated Tau Inhibitors in Alzheimer's Disease. Cells, 8(3).

Urdiales-Nieto D, et al. (2017) Biological Web Service Repositories Review. Molecular informatics, 36(5-6).

Siwo G, et al. (2016) Prediction of fine-tuned promoter activity from DNA sequence. F1000Research, 5, 158.

Karlsson J, et al. (2013) MAPI: a software framework for distributed biomedical applications. Journal of biomedical semantics, 4(1), 4.

Neron B, et al. (2009) Moby: a new full web bioinformatics framework. Bioinformatics (Oxford, England), 25(22), 3005.

Hummel J, et al. (2007) ProMEX: a mass spectral reference database for proteins and protein phosphorylation sites. BMC bioinformatics, 8, 216.

Shafer P, et al. (2006) Hubs of knowledge: using the functional link structure in Biozon to mine for biologically significant entities. BMC bioinformatics, 7, 71.

Gentleman RC, et al. (2004) Bioconductor: open software development for computational biology and bioinformatics. Genome biology, 5(10), R80.