Resource Summary Report

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JCVI GenProp

RRID:SCR_004592
Type: Tool

Proper Citation

JCVI GenProp (RRID:SCR_004592)

Resource Information

URL: http://cmr.jcvi.org/cgi-bin/CMR/shared/GenomePropertiesHomePage.cgi

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Description: The Genome Properties system consists of a suite of Properties which are carefully defined attributes of prokaryotic organisms whose status can be described by numerical values or controlled vocabulary terms for individual completely sequenced genomes. The system has been designed to capture the widest possible range of attributes and currently encompasses taxonomic terms, genometric calculations, metabolic pathways, systems of interacting macromolecular components and quantitative and descriptive experimental observations (phenotypes) from the literature. You may search the Genome Properties Database in 1 of 3 ways: * Search For Predicted Properties in the CMR: The Genome Property Search allows you to search the Genome Property database for state information for selected genomes and properties. * Perform a Keyword Search for a Specific Property: Lists all Genome Properties that match a specific text string. You can choose to search All Fields within a genome property or the Property Name. * Browse Top Level Genome Properties: Click on the properties to see the specific genome property report page. The Genome Properties system presents key aspects of prokaryotic biology using standardized computational methods and controlled vocabularies. Properties reflect gene content, phenotype, phylogeny and computational analyses. The results of searches using hidden Markov models allow many properties to be deduced automatically, especially for families of proteins (equivalogs) conserved in function since their last common ancestor. Additional properties are derived from curation, published reports and other forms of evidence. Genome Properties system was applied to 156 complete prokaryotic genomes, and is easily mined to find differences between species, correlations between metabolic features and families of uncharacterized proteins, or relationships among properties.

Abbreviations: JCVI GenProp

Synonyms: Genome Properties, Genome Properties Database, JCVI CMR Genome Properties

Resource Type: data or information resource, database, service resource

Defining Citation: PMID:15347579

Keywords: prokaryote, genome, genomics, a

Funding: NSF DBI-0110270;
DOE DE-FG02-01ER63203

Resource Name: JCVI GenProp

Resource ID: SCR_004592

Alternate IDs: nlx_58176

Old URLs: http://www.tigr.org/Genome_Properties

Record Creation Time: 20220129T080225+0000

Record Last Update: 20250521T061005+0000

Ratings and Alerts

No rating or validation information has been found for JCVI GenProp.

No alerts have been found for JCVI GenProp.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Dörries K, et al. (2013) Metabolic footprint analysis uncovers strain specific overflow metabolism and D-isoleucine production of Staphylococcus aureus COL and HG001. PloS one, 8(12), e81500.