

GDGDB RDF - RDF representation of the data from the Glyco-Disease Genes Database (GDGDB)

Namespaces

The following RDF namespaces and prefixes will be used in the documentation.

Prefix	URI
rdf	http://www.w3.org/1999/02/22-rdf-syntax-ns#
dct	http://purl.org/dc/terms/
gdgsch	http://jcggdb.jp/rdf/diseases/gdgdb-schema#
owl	http://www.w3.org/2002/07/owl#
pav	http://purl.org/pav/
skos	http://www.w3.org/2004/02/skos/core#
gdgonto	http://jcggdb.jp/rdf/diseases/gdgdb#
rdfs	http://www.w3.org/2000/01/rdf-schema#
ggdsch	http://jcggdb.jp/rdf/diseases/ggdonto-schema#
foaf	http://xmlns.com/foaf/0.1/

Disease Description

For describing information about diseases that are known to be related to glycans

URI: <http://jcggdb.jp/rdf/diseases/gdgdb-schema#DiseaseDescription>

Superclass: <http://purl.uniprot.org/core/Annotation>, http://ncicb.nci.nih.gov/xml/owl/EVS/Thesaurus.owl#Diseases_and_Disorders

Predicates that have this class as domain:

Predicate	Range	Functional	Description
gdgsch:diseaseName	http://www.w3.org/2001/XMLSchema#string		Names and synonyms of diseases
gdgsch:omimPhenoMIMnumber	http://www.w3.org/2001/XMLSchema#string		Phenotype MIM number from OMIM
gdgsch:omimPhenotype	http://www.w3.org/2001/XMLSchema#string		Phenotype name from OMIM
gdgsch:pathogenesis	http://www.w3.org/2001/XMLSchema#string		Pathogenesis (pathosis) of diseases

GDGDB Disease Description

For describing information about diseases that are recorded in GDGDB

URI: <http://jcggdb.jp/rdf/diseases/gdgdb-schema#DiseaseDescriptionGDGDB>

Superclass: [gdgsch:DiseaseDescription](#)

Gene Description

For describing information about glycan-related genes

URI: <http://jcggdb.jp/rdf/diseases/gdgdb-schema#GeneDescription>

Superclass: <http://purl.uniprot.org/core/Annotation>, <http://ncicb.nci.nih.gov/xml/owl/EVS/Thesaurus.owl#Gene>

Predicates that have this class as domain:

Predicate	Range	Functional	Description
gdgsch:aliasGeneName	http://www.w3.org/2001/XMLSchema#string		Synonymous names for the gene
gdgsch:aliasGeneSymbol	http://www.w3.org/2001/XMLSchema#string		Synonymous symbols for the gene
gdgsch:externalLink	http://www.w3.org/2001/XMLSchema#string		External links to the NCBI Gene, GlycoGene DataBase (GGDB), OMIM and other resources. Gene is a searchable database of genes, which is provided by NCBI and available from http://www.ncbi.nlm.nih.gov/gene/ . Gene integrates information from a wide range of species. GlycoGene Database (http://riodb.ibase.aist.go.jp/rcmg/ggdb) is created by Research Center for Medical Glycoscience at AIST and provides information on glycogenes.
gdgsch:geneName	http://www.w3.org/2001/XMLSchema#string		Gene names
gdgsch:geneSymbol	http://www.w3.org/2001/XMLSchema#string		Official gene symbol (approved gene symbol)
gdgsch:locus	http://www.w3.org/2001/XMLSchema#string		Chromosome Location

gdgsch:ncbiGenId	http://www.w3.org/2001/XMLSchema#string		Gene ID from NCBI Gene
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GDGDB Gene Description

For describing information about genes that cause diseases recorded in GDGDB.

URI: <http://jcgdb.jp/rdf/diseases/gdgdb-schema#GeneDescriptionGDGDB>

Superclass: gdgsch:GeneDescription

GDGDB Document

This is the class for describing information about disease and etiology. This information is recorded as one document in the GDGDB.

URI: <http://jcgdb.jp/rdf/diseases/gdgdb-schema#DocumentGDGDB>

Superclass: owl:Thing

Predicates that have this class as domain:

Predicate	Range	Functional	Description
gdgsch:diseaseDescription	gdgsch:DiseaseDescriptionGDGDB		For describing information about diseases that are recorded in GDGDB
gdgsch:dmsid	http://www.w3.org/2001/XMLSchema#string		Document ID
gdgsch:geneDescription	gdgsch:GeneDescriptionGDGDB		For describing information about genes that cause diseases recorded in GDGDB.

Concept Type

For describing types of concepts

URI: <http://jcggdb.jp/rdf/diseases/ggdonto-schema#ConceptType>

Superclass: owl:Thing

Instances:

URI	Label	Description
gdgsch:DiseaseDescriptionAndEtiology	Disease description and etiology	

Glyco-related Concept Schemes

For describing linkages between SKOS Concepts in different Concept Schemes that are defined in Ontologies developed by Glycoscience and Glycotechnology Research Group, AIST

URI: <http://jcggdb.jp/rdf/diseases/ggdonto-schema#GlycoRelatedConceptSchemes>

Superclass: skos:ConceptScheme

Instances:

URI	Label	Description
gdgsch:ConceptSchemeGDGDB	This concept scheme includes the concepts that represent entries from Glyco-Disease Genes Database (GDGDB)	