GGDonto - Ontology of Genetic Diseases known to be related to Glycan Metabolism

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#
prism	http://prismstandard.org/namespaces/basic/2.0/
rdfs	http://www.w3.org/2000/01/rdf-schema#
uniprot	http://purl.uniprot.org/core/
ggdsch	http://jcggdb.jp/rdf/diseases/ggdonto-schema#
dct	http://purl.org/dc/terms/
gmsch	http://jcggdb.jp/rdf/diseases/gmncbi-schema#
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#
bibo	http://purl.org/ontology/bibo/
foaf	http://xmlns.com/foaf/0.1/
ggdonto	http://jcggdb.jp/rdf/diseases/ggdonto#

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: uniprot: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
ggdsch:diseaseIncluded	http://www.w3.org/2001/XMLSchema#string		Other entities represented in this disease in OMIM, MeSH and other resources
ggdsch:diseasePreferredTerm	http://www.w3.org/2001/XMLSchema#string		Preferred term for disease (from OMIM, MeSH and other resources)
ggdsch:diseasePreferredTermAbbr	http://www.w3.org/2001/XMLSchema#string		Abbreviation for "Preferred term for disease" (from OMIM, MeSH and other resources)

ggdsch:diseaseSynonyms	http://www.w3.org/2001/XMLSchema#string		Synonyms for disease name (from OMIM, MeSH and other resources)
ggdsch:umlsCODE	http://www.w3.org/2001/XMLSchema#string		UMLS: Unique Identifier or code for string in source
ggdsch:umlsCUI	http://www.w3.org/2001/XMLSchema#string		UMLS: Unique identifier for concept
ggdsch:umlsSAB	http://www.w3.org/2001/XMLSchema#string		UMLS: Source abbreviation; ICD-10-CM: International Classification of Diseases, Tenth Revision, Clinical Modification; MeSH: Medical Subject Headings; MeSH (SCR): Supplemental Concept Record from MeSH; SNOMED CT: SNOMED Clinical Terms;

GGDonto Disease Description

For describing information about diseases that are recorded in GGDonto

URI: http://jcggdb.jp/rdf/diseases/ggdonto-schema#DiseaseDescriptionGGDonto

Superclass: gdgsch:DiseaseDescription

Predicates that have this class as domain:

Predicate	Range	Functional	Description
ggdsch:diseaseType	ggdsch:DiseaseType	yes	Property for describing types of diseases

ggdsch:geneSymbolGGDB	http://www.w3.org/2001/XMLSchema#string		For link to the GlycoGene DataBase

Clinical Findings Description

For describing clinical findings of diseases

URI: http://jcggdb.jp/rdf/diseases/ggdonto-schema#ClinicalFindingsDescription

Superclass: uniprot:Annotation, http://ncicb.nci.nih.gov/xml/owl/EVS/Thesaurus.owl#Finding

Predicates that have this class as domain:

Predicate	Range	Functional	Description
ggdsch:umlsCODE	http://www.w3.org/2001/XMLSchema#string		UMLS: Unique Identifier or code for string in source
ggdsch:umlsCUI	http://www.w3.org/2001/XMLSchema#string		UMLS: Unique identifier for concept
ggdsch:umlsSAB	http://www.w3.org/2001/XMLSchema#string		UMLS: Source abbreviation; ICD-10-CM: International Classification of Diseases, Tenth Revision, Clinical Modification; MeSH: Medical Subject Headings; MeSH (SCR): Supplemental Concept Record from MeSH; SNOMED CT: SNOMED Clinical Terms;

Classification Description

For describing classification of diseases

URI: http://jcggdb.jp/rdf/diseases/ggdonto-schema#ClassificationDescription

Superclass: uniprot:Annotation

Predicates that have this class as domain:

Predicate	Range	Functional	Description
ggdsch:umlsCODE	http://www.w3.org/2001/XMLSchema#string		UMLS: Unique Identifier or code for string in source
ggdsch:umlsCUI	http://www.w3.org/2001/XMLSchema#string		UMLS: Unique identifier for concept
ggdsch:umlsSAB	http://www.w3.org/2001/XMLSchema#string		UMLS: Source abbreviation; ICD-10-CM: International Classification of Diseases, Tenth Revision, Clinical Modification; MeSH: Medical Subject Headings; MeSH (SCR): Supplemental Concept Record from MeSH; SNOMED CT: SNOMED Clinical Terms;

ggdsch:DiseaseTypeClass

URI: http://jcggdb.jp/rdf/diseases/ggdonto-schema#DiseaseTypeClass

Superclass: owl:Thing

Semantic Relations GGDonto

For describing information about semantic relations between concepts in GGDonto

URI: http://jcggdb.jp/rdf/diseases/ggdonto-schema#SemanticRelationsGGDonto

Superclass: owl:ObjectProperty

Predicates that have this class as domain:

Predicate	Range	Functional	Description
ggdsch:ontologyType	ggdsch:OntologyType	yes	For describing ontology type for new semantic relations properties
ggdsch:parentOntology	ggdsch:TopLevelOntologies	yes	For describing parent ontology for new semantic relations properties
ggdsch:topOntology	ggdsch:TopLevelOntologies	yes	For describing top ontology for new semantic relations properties

Top Level Ontologies

For describing Top Level Ontologies

URI: http://jcggdb.jp/rdf/diseases/ggdonto-schema#TopLevelOntologies

Superclass: owl:Thing

Instances:

URI	Label	Description

ggdsch:PhenotypeLSD	Ontology for Disorders of Glycan Degradation (Lysosomal Storage Diseases); classified by phenotype	
ggdsch:PhenotypeGD	Ontology for Disorders of Glycosylation; classified by phenotype	
ggdsch:PathwayLSD	Ontology for Disorders of Glycan Degradation (Lysosomal Storage Diseases); classified by pathway	
ggdsch:PathwayGDtradit	Traditional nomenclature for Disorders of Glycosylation; classified by pathway	
ggdsch:PathwayGDnew	New nomenclature for Disorders of Glycosylation; classified by pathway	
ggdsch:MultiTypesDis	Classification of disease or disorder with multiple types	
ggdsch:InbornErrGlycans	Classification of Inborn Errors of Glycan Metabolism	

Ontology Type

For describing types of ontologies

URI: http://jcggdb.jp/rdf/diseases/ggdonto-schema#OntologyType

Superclass: owl:Thing

Instances:

URI	Label	Description
ggdsch:TopOntology	Top Ontology	
ggdsch:SubOntology	Sub Ontology	

Concept Type

For describing types of concepts

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

Superclass: owl:Thing

Instances:

URI	Label	Description
ggdsch:SingleDisease	Single Disease	
ggdsch:MultipleTypesDisease	Multiple Types Disease	Disease with multiple types
ggdsch:DiseaseType	Disease Type	
ggdsch:ClinicalFindings	Clinical Findings	
ggdsch:ClassificationTerm	Classification Term	

Glyco-related Databases

For describing linkages between concepts and resources in related glycomics databases

URI: http://jcggdb.jp/rdf/diseases/ggdonto-schema#GlycoRelatedDatabases

Superclass: uniprot:Database

Instances:

URI	Label	Description
ggdsch:GGDB	GlycoGene Database (GGDB)	GGDB was created by Research Center for Medical Glycoscience (RCMG). GGDB provides necessary information for the analysis of glycogenes.
ggdsch:GDGDB	Glyco-Disease Genes Database (GDGDB)	GDGDB was created by Research Center for Medical Glycoscience (RCMG) and released in April 2010. At present time GDGDB provides information on about 80 genetic diseases of both glycan synthesis and degradation.

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
ggdsch:ConceptSchemePhenotypeLSD	Concept Scheme about Genetic disorders of glycan degradation (by systems, signs and symptoms)	

ggdsch:ConceptSchemePhenotypeGD	Concept Scheme about Genetic disorders of glycan synthesis (by systems, signs and symptoms)	
ggdsch:ConceptSchemePathwayLSD	Concept Scheme about Genetic disorders of glycan degradation	
ggdsch:ConceptSchemePathwayGDtradit	Concept Scheme about Genetic disorders of glycan synthesis (traditional nomenclature)	
ggdsch:ConceptSchemePathwayGDnew	Concept Scheme about Genetic disorders of glycan synthesis (new nomenclature)	
ggdsch:ConceptSchemeMultiTypesDis	Concept Scheme about Multiple Types Diseases	
ggdsch:ConceptSchemeInbornErrGlycans	Concept Scheme about Congenital, Hereditary, and Neonatal Diseases and Abnormalities related to Glycans	