

Logical Axioms for Inheritance in the DO

Import ontologies:

GENO [[at EBI OLS](#)] for inheritance

SO -- for structural variants (e.g. genetic disease, monogenic disease)

The EQ statements have already been added to the DO.

EQ statements

genetic disease

disease and ('disease has basis in' some structural_variant)

monogenic

disease and 'disease has basis in' some gene

autosomal genetic disease

disease and ('has material basis in' some 'autosomal inheritance')

autosomal dominant disease

disease and ('has material basis in' some 'autosomal dominant inheritance')

autosomal recessive disease

disease and ('has material basis in' some 'autosomal recessive inheritance')

X-linked monogenic disease

disease and ('has material basis in' some 'X-linked inheritance')

X-linked recessive disease

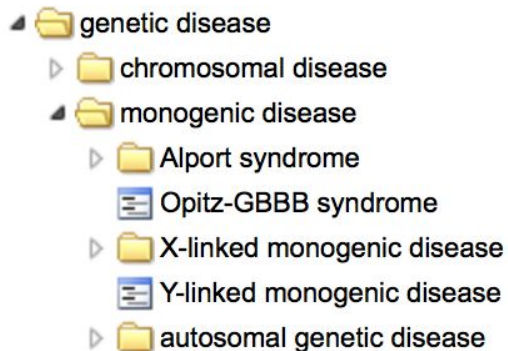
disease and ('has material basis in' some 'X-linked recessive inheritance')

X-linked dominant disease

disease and ('has material basis in' some 'X-linked dominant inheritance')

The SubClass Of Statements are added to DO terms, when the asserted parent is outside of

The genetic disease branch:



The SubClass of Statements include:

The EQ statements have already been added to the DO.

SubClass Of statements

genetic disease

'disease has basis in' some structural_variant

monogenic

'disease has basis in' some gene

autosomal genetic disease

'has material basis in' some 'autosomal inheritance'

autosomal dominant disease

'has material basis in' some 'autosomal dominant inheritance'

autosomal recessive disease

'has material basis in' some 'autosomal recessive inheritance'

X-linked monogenic disease

'has material basis in' **some 'X-linked inheritance'**

X-linked recessive disease

'has material basis in' some 'X-linked recessive inheritance'

X-linked dominant disease

'has material basis in' some 'X-linked dominant inheritance'