

## **ONSTR Class Importing Policy**

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### **0. Summary**

This document describes the class importing policy used in ONSTR. Both owl:imports and term (classes and object properties) importing are described below.

### **1. ONSTR Ontology Imports**

ONSTR is a low level domain ontology and thus imports only one higher level ontology, using the owl:imports mechanism.

As a top level ontology ONSTR uses the Basic Formal Ontology (BFO2, v2012-07-20), imported from: <http://purl.obolibrary.org/obo/bfo.owl>.

### **2. Importing Classes From Other Ontologies**

For the purposes of importing selected classes and object properties (relations) from external ontologies, ONSTR uses MIREOT approach published and used by the OBO Foundry Consortium, accessible at: <http://somatingsomethingsomething>

For each selected class (or object property) after determining the appropriate parent class, the following information is imported into the ONSTR.owl file:

1. Imported class IRI
2. Imported class label and
3. Imported class definition.

**Each imported class**, therefore must have the following annotations:

1. Imported class IRI
2. Parent class statement. Parent class could be some ONSTR class or some class of the imported higher ontologies or another imported class.
3. Imported class label
4. Imported class definition.
5. Curation status: Imported from XXXX

For all imported class, just like in the case of ONSTR native classes, the same set of annotation properties should be used. Below is the code example of a class imported from OBI:

```
<owl:Class rdf:about="http://purl.obolibrary.org/obo/OBI_0000040">
  <rdfs:subClassOf rdf:resource="&snap;Role"/>
  <rdfs:label rdf:datatype="&xsd:string">drug role</rdfs:label>
  <skos:definition rdf:datatype="&xsd:string">a role borne by a molecular entity and is realized in a process of absorption by an organism alters, or effects (or is assumed to effect) a function(s) which inhere in an organism</skos:definition>
  <skos:editorialNote rdf:datatype="&xsd:string">Curation status: Imported from OBI</skos:editorialNote>
</owl:Class>
```

If the imported class also happens to be a superClass of another imported class, then the XML ENTITY and XML namespace also need to be decalred (i.e. added to the already existing entities and namespaces. For instance:

```
<!ENTITY OBI "http://purl.obolibrary.org/obo/obi.owl#">
```

and

```
xmlns:OBI="http://purl.obolibrary.org/obo/obi.owl#"
```

### **3. List of Ontologies the C have been lasses Imported into ONSTR** as of ONSTR v0.1 (v2012-08-17):

Ontology for Biomedical Investigation (OBI)  
Information Artifact Ontology (IAO)  
Gene Ontology (GO)  
Chemical Entities of Biological Interest (ChEBI)  
Phenotypic Quality Ontology (PATO)  
Protein Ontology (RP)  
Ontology for General Medical Science (OGMS)  
Cell Types Ontology (CL)  
Foundational Model of Anatomy (FMA)  
Unit Ontology (UO)  
NCBI Taxonomical Classification (NCBITaxon)  
Eagle-I Research Resource Ontology (ERO)