

# Web services provided centrally

## Ontology Information Web Services

These web services provide REST access to the EIModel API, a simple programmatic interface around the eagle-i ontology, see: <http://search.eagle-i.net/javadoc/org/eaglei/model/package-summary.html>. They are packaged in the `model.war` web application and deployed centrally at <http://search.eagle-i.net/model>

The results are always returned as JSON, generated with GSON from the `EIClass` Java class (or Lists thereof), see: <http://search.eagle-i.net/javadoc/org/eaglei/model/EIClass.html>

### Information about one ontology class - `/model/ontology`

This call returns details of a given ontology type.

**URL:** `/model/ontology` (GET and POST)

**Args:**

`uri`-- URI of the ontology type for which information is sought

`pretty`-- if present, a "pretty" JSON serializer is used for formatting the result.

**Example:**

Get details about the class Tissue Microarrayer:

[http://search.eagle-i.net/model/ontology?uri=http://purl.obolibrary.org/obo/ERO\\_0000512](http://search.eagle-i.net/model/ontology?uri=http://purl.obolibrary.org/obo/ERO_0000512)

### List subclasses - `/model/ontology/subclasses`

<http://search.eagle-i.net/javadoc/org/eaglei/model/EIClass.html>

This call returns subclasses of a given ontology type.

**URL:** `/model/ontology/subclasses` (GET and POST)

**Args:**

`uri`-- URI of the ontology type for which subclasses are sought.

`deep`-- if present, this argument instructs that a recursive listing of subclasses be performed. If absent, only direct subclasses are returned.

`pretty`-- if present, a "pretty" JSON serializer is used for formatting the result.

**Example:**

Get direct subclasses of the Instrument class:

[http://search.eagle-i.net/model/ontology/subclasses?uri=http://purl.obolibrary.org/obo/ERO\\_0000004](http://search.eagle-i.net/model/ontology/subclasses?uri=http://purl.obolibrary.org/obo/ERO_0000004)

### List superclasses - `/model/ontology/path`

This call returns superclasses of a given ontology type, up to an eagle-i primary type (i.e. BFO ignored). Current limitation: only one path is returned; some classes have multiple inferred parents, in which case an arbitrary path is chosen.

**URL:** `/model/ontology/path` (GET and POST)

**Args:**

`uri`-- URI of the ontology type for which superclasses are sought

`pretty`-- if present, a "pretty" JSON serializer is used for formatting the result.

**Example:**

Get superclasses of Tissue Microarrayer.

[http://search.eagle-i.net/model/ontology/path?uri=http://purl.obolibrary.org/obo/ERO\\_0000512](http://search.eagle-i.net/model/ontology/path?uri=http://purl.obolibrary.org/obo/ERO_0000512)