

LexWiki Tab:

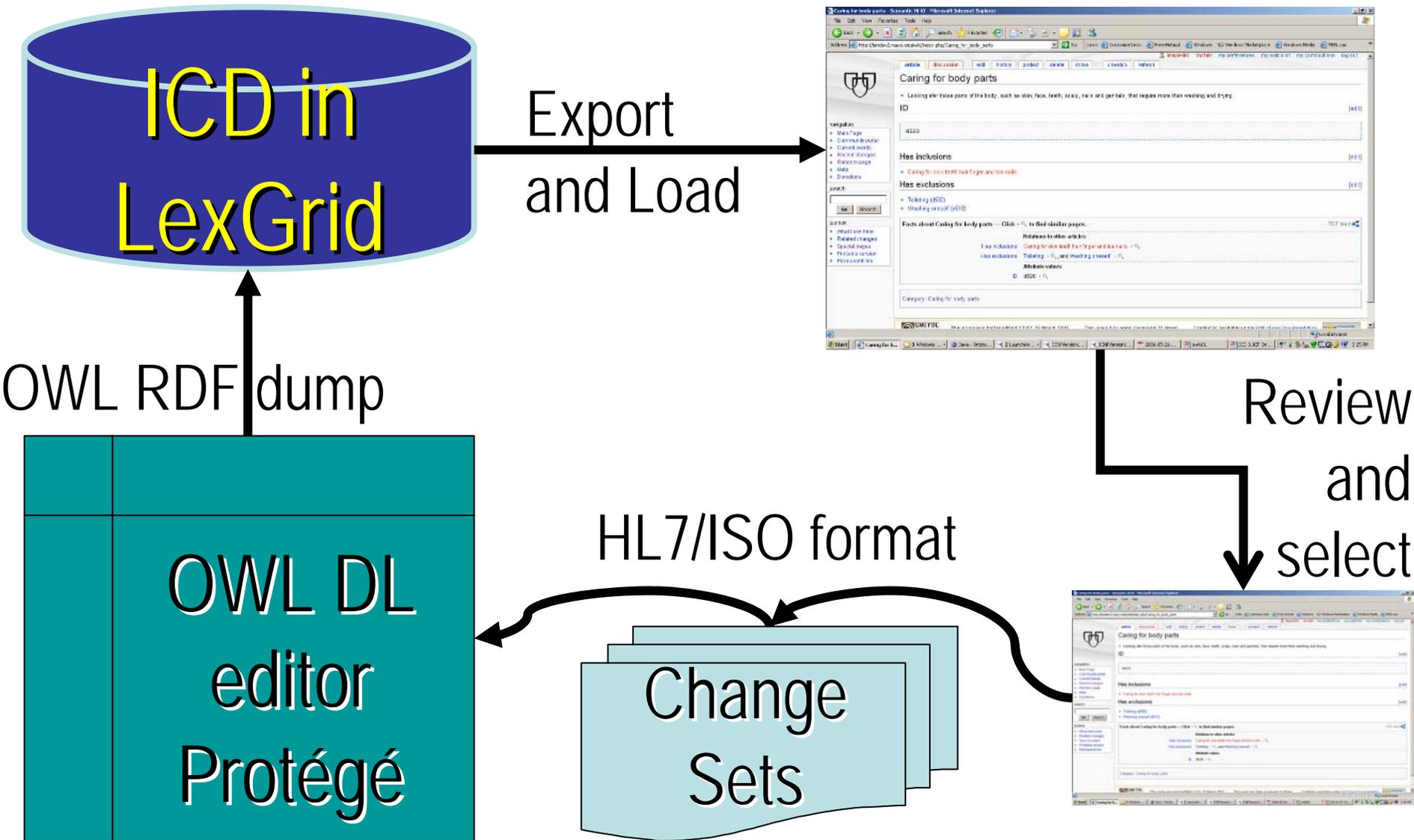
A Protégé Tab plug-in for exporting ontologies
in LexBIG format to Semantic Wiki

Guoqian Jiang, Ph.D.,
CG Chute, M.D. Dr.PH.

Mayo Clinic

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Proposed Process



Loading Terminologies into LexBIG

The screenshot displays the LexBIG 1.0 application window. The main area is a table titled "Available Code Systems" with columns for Version, URN, Tag, Status, Last Update Time, Deactivate Time, and Description. A context menu is open over the table, listing various load options. Below the table are two panels: "Selected CodedNodeSets and CodedNodeGraphs" with buttons for Union, Intersection, Difference, Restrict to Codes, Rst to Source Codes, Rst to Target Codes, and Remove; and "Restrictions" with buttons for Add, Edit, and Remove. A message at the bottom of the Restrictions panel states: "You must choose a single Code Set or Graph on the left." The Windows taskbar at the bottom shows the Start button, My Documents, and several open applications including LexBIG 1.0.

Version	URN	Tag	Status	Last Update Time	Deactivate Time	Description
	urn:lsid:bioontology.org:EVM		active	10:13:41 AM on 04/25/2007		T5 ouput by Evoc2star.
	urn:lsid:bioontology.org:gene_ont...		active	8:45:51 PM on 04/12/2007		geneontology.org version: Revision: 4.222
	urn:oid:2.16.840.1.113883.6.2		active	10:11:45 AM on 05/07/2007		ICD-9-CM [computer file]: international classification of c
	http://www.icn.ch/icnp#		active	11:25:42 AM on 05/04/2007		MISSING
	urn:lsid:bioontology.org:MouseDe...		active	11:28:39 AM on 04/25/2007		autogenerated-by: <input type="checkbox"/> COBRA <input type="checkbox"/> date: <input type="checkbox"/> Mon Nov 20 16:26
	urn:lsid.nlm.nih.gov:semnet	SAMPLE	active	4:51:37 PM on 04/12/2007		The UMLS Semantic Network is one of three UMLS Knowl

Selected CodedNodeSets and CodedNodeGraphs

- Union
- Intersection
- Difference
- Restrict to Codes
- Rst to Source Codes
- Rst to Target Codes
- Remove

Restrictions

- Add
- Edit
- Remove

You must choose a single Code Set or Graph on the left.

A list of loaded terminologies

The screenshot displays the LexBIG 1.0 application window. The title bar reads "LexBIG 1.0" and the menu bar includes "Commands", "Load Terminology", "Export Terminology", and "Help".

The main area is titled "Available Code Systems" and contains a table with the following data:

Code System Name	Code System Version	URN	Tag	Status	Last Update Time	Deactivate Time	Description
EVM	mouse-0.5	urn:lsid:bioontology.org:EVM		active	10:13:41 AM on 04/25/2007		T5 ouput by Evoc2star.
gene_ontology	UNASSIGNED	urn:lsid:bioontology.org:gene_ont...		active	8:45:51 PM on 04/12/2007		geneontology.org version: Revision: 4.222
ICD-9-CM, 2007	2007	urn:oid:2.16.840.1.113883.6.2		active	10:11:45 AM on 05/07/2007		ICD-9-CM [computer file]: international classification of c
icnp	??	http://www.icn.ch/icnp#		active	11:25:42 AM on 05/04/2007		MISSING
MouseDevelopment.goff	UNASSIGNED	urn:lsid:bioontology.org:MouseDe...		active	11:28:39 AM on 04/25/2007		autogenerated-by: <input type="checkbox"/> COBRA <input type="checkbox"/> date: <input type="checkbox"/> Mon Nov 20 16:26
UMLS Semantic Network	3.2	urn:lsid:nlm.nih.gov:semnet	SAMPLE	active	4:51:37 PM on 04/12/2007		The UMLS Semantic Network is one of three UMLS Knowl

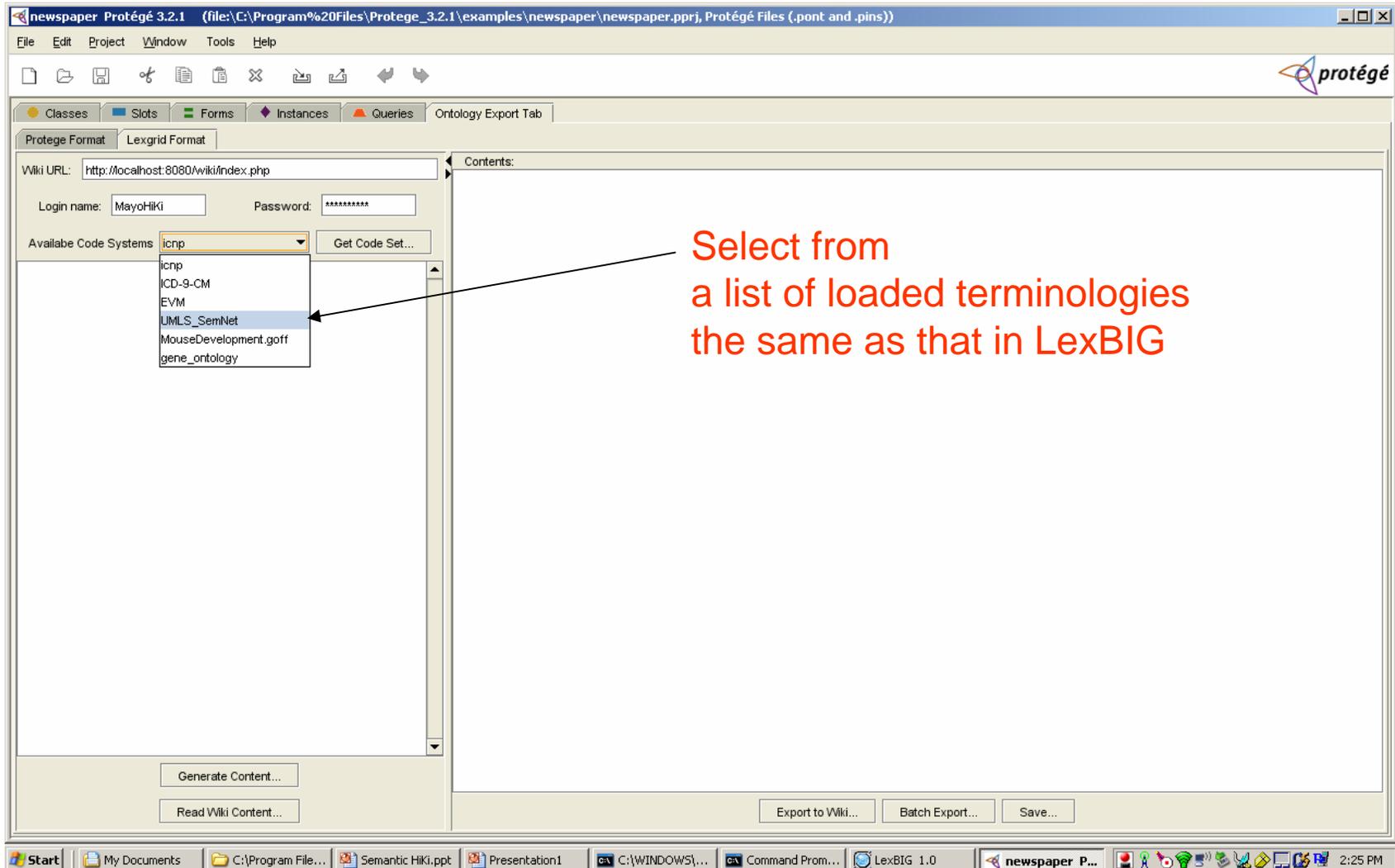
To the right of the table is a vertical stack of buttons: "Get Code Set", "Get Code Graph", "Get History", "Refresh", "Change Tag", "Activate", "Deactivate", "Remove", "Remove History", and "Rebuild Index".

Below the table are two panels:

- Selected CodedNodeSets and CodedNodeGraphs:** This panel is currently empty. To its right is a vertical stack of buttons: "Union", "Intersection", "Difference", "Restrict to Codes", "Rst to Source Codes", "Rst to Target Codes", and "Remove".
- Restrictions:** This panel is also empty. To its right are buttons for "Add", "Edit", and "Remove". Below these buttons, a message reads: "You must choose a single Code Set or Graph on the left."

The Windows taskbar at the bottom shows the Start button, several open applications (My Documents, LexGri..., Semantic HIki.ppt, Presentation1), and the system tray with the time 2:23 PM.

Protégé Tab Plugin (Ontology Export Tab)



Get Code Set

The screenshot shows the Protégé 3.2.1 application window. The title bar indicates the file path: `file:\C:\Program%20Files\Protege_3.2.1\examples\newspaper\newspaper.pprj`. The menu bar includes File, Edit, Project, Window, Tools, and Help. The toolbar contains icons for file operations and navigation. The main interface has tabs for Classes, Slots, Forms, Instances, Queries, and Ontology Export Tab. Below these are tabs for Protege Format and Lexgrid Format. The Protege Format tab is active, showing a Wiki URL field with `http://localhost:8080/wiki/index.php`, a Login name field with `MayoHiki`, and a Password field with `*****`. The Available Code Systems dropdown is set to `UMLS_SemNet`. The `Get Code Set...` button is highlighted in orange, with an arrow pointing to it from the text `Click and get a list of concept codes in selected coding system`. Below the button is a list of concept codes, including `T001|Organism`, `T002|Plant`, `T003|Alga`, `T004|Fungus`, `T005|Virus`, `T006|Rickettsia or Chlamydia`, `T007|Bacterium`, `T008|Animal`, `T009|Invertebrate`, `T010|Vertebrate`, `T011|Amphibian`, `T012|Bird`, `T013|Fish`, `T014|Reptile`, `T015|Mammal`, `T016|Human`, `T017|Anatomical Structure`, `T018|Embryonic Structure`, `T019|Congenital Abnormality`, `T020|Acquired Abnormality`, `T021|Fully Formed Anatomical Structure`, `T022|Body System`, `T023|Body Part, Organ, or Organ Component`, `T024|Tissue`, `T025|Cell`, `T026|Cell Component`, and `T028|Gene or Genome`. At the bottom of the interface are buttons for `Generate Content...`, `Read Wiki Content...`, `Export to Wiki...`, `Batch Export...`, and `Save...`. The Windows taskbar at the bottom shows the Start button, My Documents, and several open applications including `C:\Program File...`, `Semantic HIKI.ppt`, `Presentation1`, `C:\WINDOWS\...`, `Command Prom...`, and `LexBIG 1.0`. The system tray shows the time as `2:27 PM`.

Generate content for each code

The screenshot shows the Protégé 3.2.1 interface. On the left, a list of codes is displayed, with 'T001|Organism' selected. Below the list is a 'Generate Content...' button. On the right, the 'Contents' panel shows the generated content for the selected code, including its definition, presentations, and associations. A red text box on the right side of the image contains the instruction: 'Select one code and Click Button Generate Content, Get the coded contents shown in Right panel'. An arrow points from this text to the 'Generate Content...' button, and another arrow points from the text to the 'Contents' panel.

newspaper Protégé 3.2.1 (file:\C:\Program%20Files\Protege_3.2.1\examples\newspaper\newspaper.pprj, Protégé Files (.pont and .pins))

File Edit Project Window Tools Help

Classes Slots Forms Instances Queries Ontology Export Tab

Protege Format Lexgrid Format

Wiki URL:

Login name: Password:

Available Code Systems: UMLS_SemNet

T001|Organism
T002|Plant
T003|Alga
T004|Fungus
T005|Virus
T006|Rickettsia or Chlamydia
T007|Bacterium
T008|Animal
T009|Invertebrate
T010|Vertebrate
T011|Amphibian
T012|Bird
T013|Fish
T014|Reptile
T015|Mammal
T016|Human
T017|Anatomical Structure
T018|Embryonic Structure
T019|Congenital Abnormality
T020|Acquired Abnormality
T021|Fully Formed Anatomical Structure
T022|Body System
T023|Body Part, Organ, or Organ Component
T024|Tissue
T025|Cell
T026|Cell Component
T028|Gene or Genome

Contents:
== Coding Scheme ==
UMLS_SemNet - urn:lsid:nlm.nih.gov:semnet
== Concept Code ==
[[ID:=T001]]
== Entity Description ==
[[Description:=Organism]]
== Definition ==
* [[Definition:=Generally, a living individual, including all plants and animals.]]
== Presentations ==
* Has Preferred STY_RL: [[Has Preferred STY_RL:=Organism]]
* Has null ABR: [[Has null ABR:=orgm]]
== Concept Property ==
== Comment ==
* [[Comment:=Homozygote; Radiation Chimera; Transgenic Organisms]]
== Associations ==
* [[Relation: inverse_isa]] [[inverse_isa:Category: Bird(T012)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Amphibian(T011)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Invertebrate(T009)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Vertebrate(T010)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Animal(T008)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Bacterium(T007)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Rickettsia or Chlamydia(T006)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Virus(T005)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Fungus(T004)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Alga(T003)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Archaeon(T194)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Plant(T002)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Human(T016)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Mammal(T015)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Reptile(T014)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Fish(T013)]]
* [[Relation: issue_in]] [[issue_in:Category: Biomedical Occupation or Discipline(T091)]]
* [[Relation: issue_in]] [[issue_in:Category: Occupation or Discipline(T090)]]
* [[Relation: interacts_with]] [[interacts_with:Category: Organism(T001)]]
* [[Relation: has_part]] [[has_part:Category: Gene or Genome(T028)]]
* [[Relation: has_part]] [[has_part:Category: Cell Component(T026)]]
* [[Relation: has_part]] [[has_part:Category: Anatomical Abnormality(T190)]]
* [[Relation: has_part]] [[has_part:Category: Cell(T025)]]

Start My Documents C:\Program File... Semantic HiKi.ppt Presentation1 C:\WINDOWS\... Command Prom... LexBIG 1.0 newspaper P... 2:30 PM

Select one code and
Click Button Generate Content,
Get the coded contents
shown in Right panel

Export into Wiki

The screenshot shows the Protégé 3.2.1 interface with the 'Ontology Export Tab' active. The 'Wiki URL' is set to 'http://localhost:8080/wiki/index.php'. The 'Login name' is 'MayoHiKi' and the 'Password' is '*****'. The 'Available Code Systems' dropdown is set to 'UMLS_SemNet'. A list of code systems is shown on the left, with 'T001|Organism' selected. The 'Contents' pane on the right displays the exportable content for the selected code system, including coding scheme, concept code, entity description, definition, and various associations. At the bottom, there are three buttons: 'Export to Wiki...', 'Batch Export...', and 'Save...'. Two red arrows point from text annotations to the 'Export to Wiki...' and 'Batch Export...' buttons.

Click and export Contents of selected code To wiki

Click and batch export Contents of all codes To wiki

Import from Wiki

newspaper Protégé 3.2.1 (file:\C:\Program%20Files\Protege_3.2.1\examples\newspaper\newspaper.pprj, Protégé Files (.pont and .pins))

File Edit Project Window Tools Help

Classes Slots Forms Instances Queries Ontology Export Tab

Protege Format Lexgrid Format

Wiki URL:

Login name: Password:

Available Code Systems:

T001|Organism
T002|Plant
T003|Alga
T004|Fungus
T005|virus
T006|Rickettsia or Chlamydia
T007|Bacterium
T008|Animal
T009|Invertebrate
T010|Vertebrate
T011|Amphibian
T012|Bird
T013|Fish
T014|Reptile
T015|Mammal
T016|Human
T017|Anatomical Structure
T018|Embryonic Structure
T019|Congenital Abnormality
T020|Acquired Abnormality
T021|Fully Formed Anatomical Structure
T022|Body System
T023|Body Part, Organ, or Organ Component
T024|Tissue
T025|Cell
T026|Cell Component
T028|Gene or Genome

Contents:

```
== Coding Scheme ==
UMLS_SemNet - urn:lsid:nlm.nih.gov:semnet
== Concept Code ==
[[ID:=T001]]
== Entity Description ==
[[Description:=Organism]]
== Definition ==
* [[Definition:=Generally, a living individual, including all plants and animals.]]
== Presentations ==
* Has Preferred STY_RL: [[Has Preferred STY_RL:=Organism]]
* Has null ABR: [[Has null ABR:=orgm]]
== Concept Property ==
== Comment ==
* [[Comment:=Homozygote; Radiation Chimera; Transgenic Organisms]]
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* [[Relation: inverse_isa]] [[inverse_isa:Category: Invertebrate(T009)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Vertebrate(T010)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Animal(T008)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Bacterium(T007)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Rickettsia or Chlamydia(T006)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Virus(T005)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Fungus(T004)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Alga(T003)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Archaeon(T194)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Plant(T002)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Human(T016)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Mammal(T015)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Reptile(T014)]]
* [[Relation: inverse_isa]] [[inverse_isa:Category: Fish(T013)]]
* [[Relation: issue_in]] [[issue_in:Category: Biomedical Occupation or Discipline(T091)]]
* [[Relation: issue_in]] [[issue_in:Category: Occupation or Discipline(T090)]]
* [[Relation: interacts_with]] [[interacts_with:Category: Organism(T001)]]
* [[Relation: has_part]] [[has_part:Category: Gene or Genome(T028)]]
* [[Relation: has_part]] [[has_part:Category: Cell Component(T026)]]
* [[Relation: has_part]] [[has_part:Category: Anatomical Abnormality(T190)]]
* [[Relation: has_part]] [[has_part:Category: Cell(T025)]]
```

Generate Content...
Read Wiki Content...
Export to Wiki... Batch Export... Save...

Click and read the contents of Selected code Back from wiki

Start My Documents C:\Program File... Semantic HiKi.ppt Presentation1 C:\WINDOWS\... Command Prom... LexBIG 1.0 newspaper P... 2:35 PM

Published contents (semantics) in wiki

Category:Organism(T001) - Semantic Hi-Ki - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail New Window

Address http://bmiddev2.mayo.edu/wiki/index.php/Category:Organism%28T001%29 Go Links Customize Links Free Hotmail Windows Windows Marketplace Windows Media MSN.com

Facts about Organism(T001) — Click +  to find similar pages. RDF feed 

Relations to other articles

Inverse isa [Category: Bird\(T012\)](#) + , [Category: Amphibian\(T011\)](#) + , [Category: Invertebrate\(T009\)](#) + , [Category: Vertebrate\(T010\)](#) + , [Category: Animal\(T008\)](#) + , [Category: Bacterium\(T007\)](#) + , [Category: Rickettsia or Chlamydia\(T006\)](#) + , [Category: Virus\(T005\)](#) + , [Category: Fungus\(T004\)](#) + , [Category: Alga\(T003\)](#) + , [Category: Archaeon\(T194\)](#) + , [Category: Plant\(T002\)](#) + , [Category: Human\(T016\)](#) + , [Category: Mammal\(T015\)](#) + , [Category: Reptile\(T014\)](#) + , and [Category: Fish\(T013\)](#) + 

Issue in [Category: Biomedical Occupation or Discipline\(T091\)](#) + , and [Category: Occupation or Discipline\(T090\)](#) + 

Interacts with [Category: Organism\(T001\)](#) + 

Has part [Category: Gene or Genome\(T028\)](#) + , [Category: Cell Component\(T026\)](#) + , [Category: Anatomical Abnormality\(T190\)](#) + , [Category: Cell\(T025\)](#) + , [Category: Tissue\(T024\)](#) + , [Category: Body Part, Organ, or Organ Component\(T023\)](#) + , [Category: Congenital Abnormality\(T019\)](#) + , [Category: Fully Formed Anatomical Structure\(T021\)](#) + , [Category: Acquired Abnormality\(T020\)](#) + , [Category: Embryonic Structure\(T018\)](#) + , and [Category: Anatomical Structure\(T017\)](#) + 

Has process [Category: Physiologic Function\(T039\)](#) + , [Category: Mental Process\(T041\)](#) + , [Category: Biologic Function\(T038\)](#) + , [Category: Organism Function\(T040\)](#) + , [Category: Neoplastic Process\(T191\)](#) + , [Category: Cell or Molecular Dysfunction\(T049\)](#) + , [Category: Experimental Model of Disease\(T050\)](#) + , [Category: Mental or Behavioral Dysfunction\(T048\)](#) + , [Category: Disease or Syndrome\(T047\)](#) + , [Category: Pathologic Function\(T046\)](#) + , [Category: Genetic Function\(T045\)](#) + , [Category: Molecular Function\(T044\)](#) + , [Category: Cell Function\(T043\)](#) + , and [Category: Organ or Tissue Function\(T042\)](#) + 

Isa [Category: Physical Object\(T072\)](#) + , and [Category: Entity\(T071\)](#) + 

Has property [Category: Clinical Attribute\(T201\)](#) + , and [Category: Organism Attribute\(T032\)](#) + 

Affected by [Category: Physiologic Function\(T039\)](#) + , [Category: Mental Process\(T041\)](#) + , [Category: Biologic Function\(T038\)](#) + , [Category: Organism Function\(T040\)](#) + , [Category: Neoplastic Process\(T191\)](#) + , [Category: Anatomical Abnormality\(T190\)](#) + , [Category: Cell or Molecular Dysfunction\(T049\)](#) + , [Category: Experimental Model of Disease\(T050\)](#) + , [Category: Mental or Behavioral Dysfunction\(T048\)](#) + , [Category: Congenital Abnormality\(T019\)](#) + , [Category: Disease or Syndrome\(T047\)](#) + , [Category: Acquired Abnormality\(T020\)](#) + , [Category: Pathologic Function\(T046\)](#) + , [Category: Genetic Function\(T045\)](#) + , [Category: Molecular Function\(T044\)](#) + , [Category: Cell Function\(T043\)](#) + , and [Category: Organ or Tissue Function\(T042\)](#) + 

Attribute values

ID [SN T001](#) + 

Articles in category "Organism(T001)"

There are 0 articles in this category.

[Categories: Physical Object\(T072\) | Entity\(T071\)](#)

Error on page.

Local intranet

Start My Documents C:\Program ... Semantic HiK... Presentation1 C:\WINDOW... Command Pr... LexBIG 1.0 newspaper ... Category:D... 2:41 PM

Published contents and semantics are consistent with original LexBIG format

The screenshot displays the LexBIG Result Browser interface. The left pane shows a list of concepts: T032 - Organism Attribute, T040 - Organism Function, and T001 - Organism. The right pane shows the details for T001 - Organism, including its coding scheme, concept code, entity description, and various properties. Below the details is a diagram showing the relationships between T001 and other concepts.

Result Browser

T032 - Organism Attribute
T040 - Organism Function
T001 - Organism

Coding Scheme: UMLS_SemNet - urn:lsid:nlm.nih.gov:semnet
Concept Code: T001
Entity Description: Organism
Is Active: true
Presentation: Organism
Property Name: STY_RL
Property Id: P0
Presentation Format: text/plain
Is Preferred: true
Presentation: orgm
Property Name: ABR
Property Id: P3
Presentation Format: text/plain
Is Preferred: false
Definition: Generally, a living individual, including all plants and animals.
Property Name: DEF
Property Id: P1
Presentation Format: text/plain
Is Preferred: true
Comment: Homozygote; Radiation Chimera; Transgenic Organisms
Property Name: EX
Property Id: P2
Presentation Format: text/plain

Diagram:

The diagram shows the following relationships:

- T001 (Organism) is related to Cell Component (inverse_isa)
- T001 (Organism) is related to T190 (issue_in)
- T001 (Organism) is related to Anatomical Abnormality (issue_in)
- T001 (Organism) is related to T025 (has_part)
- T001 (Organism) is related to Cell (has_part)
- T001 (Organism) is related to T024 (has_part)
- T001 (Organism) is related to Tissue (affected_by)
- T001 (Organism) is related to T023 (has_part)
- T001 (Organism) is related to Body Part, Organ, or Organ Component (has_part)
- T001 (Organism) is related to T019 (has_part)
- T001 (Organism) is related to Congenital Abnormality (affected_by)
- T001 (Organism) is related to T021 (has_part)
- T001 (Organism) is related to Fully Formed Anatomical Structure (affected_by)
- T001 (Organism) is related to T020 (has_part)
- T001 (Organism) is related to Acquired Abnormality (has_process)
- T001 (Organism) is related to T018 (affected_by)
- T001 (Organism) is related to Embryonic Structure (has_process)
- T001 (Organism) is related to T017 (affected_by)

Windows taskbar: Start, 2 Windows..., Semantic HIK..., Presentation1, C:\WINDOW..., Command Pr..., LexBIG 1.0, Result Bro..., newspaper ..., Category:Or..., 2:42 PM

Use cases

- We successfully loaded the following use cases into semantic wiki through LexBIG
 - ICD9-CM in UMLS format
 - Gene ontology in OBO format
- The plugin also supports loading protégé format (frame and OWL) into wiki
 - Frame Model
 - OWL Model

For Protégé Format

File Edit Project OWL Code Tools Window Help

Lexgrid Format Protege Format

Wiki URL:

Login name: Password:

Ontology Type: Frame Model OWL Model

CLASS BROWSER

For Project: ● pizza.owl

Class Hierarchy

- owl:Thing
 - Axiom_1
 - Axiom_2
 - Axiom_3
 - Axiom_4
 - DomainConcept
 - Country
 - IceCream
 - Pizza
 - CheeseyPizza
 - InterestingPizza
 - MeatyPizza
 - NamedPizza
 - American
 - AmericanHot
 - Cajun
 - Capricciosa
 - Caprina
 - Fiorentina

Generate Content...
Read Wiki Content...

Contents:

```
== Annotations ==
* [[Role:=primitive]]
* [[Label:=Americana]]
== Asserted Conditions ==
* [[Relation:hasTopping]] owl:someValuesFrom [[hasTopping|TomatoTopping]]
* [[Relation:hasTopping]] owl:someValuesFrom [[hasTopping|MozzarellaTopping]]
* [[Relation:hasTopping]] owl:allValuesFrom
** ""or"" [[Category:MozzarellaTopping]]
** ""or"" [[Category:PeperoniSausageTopping]]
** ""or"" [[Category:TomatoTopping]]
* [[Relation:hasTopping]] owl:someValuesFrom [[hasTopping|PeperoniSausageTopping]]
== Properties ==
* [[Relation:hasTopping]]
* [[Relation:hasBase]]
== Disjoints ==
* [[Category:Napoletana]]
* [[Category:Margherita]]
* [[Category:Mushroom]]
* [[Category:PrinceCarlo]]
* [[Category:Cajun]]
* [[Category:FruttiDiMare]]
* [[Category:Veneziana]]
* [[Category:PolloAdAstra]]
* [[Category:SloppyGiuseppe]]
* [[Category:Fiorentina]]
* [[Category:Parmense]]
* [[Category:UnclosedPizza]]
* [[Category:QuattroFormaggi]]
* [[Category:Rosa]]
* [[Category:Soho]]
* [[Category:Giardiniera]]
* [[Category:FourSeasons]]
* [[Category:Capricciosa]]
* [[Category:Siciliana]]
* [[Category:AmericanHot]]
* [[Category:LaReine]]
* [[Category:Caprina]]
[[Category:NamedPizza]]
```

Export to Wiki... Batch Export...

Start | Inbox - Microsoft Out... | Main Page - Semantic ... | 5 Windows Explorer | Command Prompt - ru... | Java - GenerateConte... | pizza.owl Protégé 3... | 3:31 PM

Todo List for the plug-in

- Adding search function
- Adding subset function
- Seeking a standard format to represent the semantics rendered in LexBIG
- ...