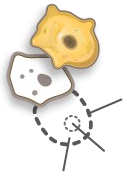


# Ontology Summit 2013

**Trish Whetzel**  
**Outreach Coordinator**



THE NATIONAL CENTER FOR  
**BIOMEDICAL ONTOLOGY**



# NCBO Key Activities

- We ***create and maintain a library*** of biomedical ontologies
- We ***build tools and Web services*** to enable the use of ontologies
- We ***collaborate with scientific communities*** that develop and use ontologies

Welcome to BioPortal! For help using BioPortal, click on this icon:

Search all ontologies

Enter term, e.g. Melanoma

[Advanced Search](#)

Find an ontology

Enter ontology name, e.g. NCI Thesaurus

[Browse Ontologies >](#)

Search resources

Enter a term, e.g. Melanoma

[Advanced Resource Search](#)

Most Viewed Ontologies (October, 2012)

Ontology	Views
<a href="#">National Drug File</a>	8441
<a href="#">SNOMED Clinical Terms</a>	6277
<a href="#">International Classification of Diseases</a>	4638
<a href="#">MedDRA</a>	4144
<a href="#">NCI Thesaurus</a>	1759

Latest Notes

[Suggest synonym removal \(Human disease ontology\)](#) 18 days ago by ceyockey  
Suggest removing "cancer of prostate" as a synonym and associate this with the present term's par...

---

[Please use the tracker for this ontology to make notes \(Zebrafish anatomy and development\)](#) 26 days ago by cervis  
Please make comments, new term requests, issue reports etc for this ontology using the official t...

---

[Languages \(BRENDA tissue / enzyme source\)](#) 30 days ago by anonymous  
does the ontology contain terms in different languages?

---

[Terms \(BRENDA tissue / enzyme source\)](#) 30 days ago by anonymous  
How many terms does the BTO include?

Latest Mappings

[Neoplasm of uncertain behavior of testis \(MedDRA\) => Neoplasm of uncertain behavior of testis \(International Classification of Diseases\)](#)  
NLM UMLS (MRMAP) 11/05/12 loom

---

[BALANITIS \(COSTART\) => Balanitis \(MedDRA\)](#)  
NLM UMLS (MRMAP) 11/05/12 loom

---

[Poisoning by bromine compounds \(International Classification of Diseases\) => Poisoning by bromine compounds \(MedDRA\)](#)  
NLM UMLS (MRMAP) 11/05/12 loom

---

[Radial styloid tenosynovitis \(MedDRA\) => Radial styloid tenosynovitis \(International Classification of Diseases\)](#)  
NLM UMLS (MRMAP) 11/05/12 loom

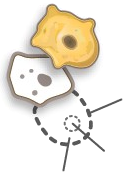
---

[Hair transplant \(International Classification of Diseases\) => Hair transplant \(MedDRA\)](#)  
NLM UMLS (MRMAP) 11/05/12 loom

Statistics

Ontologies	331
Terms	5,489,743
Resources Indexed	28
Indexed Records	4,567,151
Direct Annotations	2 342 121 419
Direct Plus Expanded Annotations	

**bioportal.bioontology.org**



# BioPortal

- Repository of biomedical ontologies
- Infrastructure is domain independent
- Stores ontologies developed in OWL, Protégé frames, OBO format, and Rich Release Format
- Access to ontologies via Web interface, Web services, and SPARQL (beta)
- Access control for private ontologies
- Supports subsets/views of ontologies

## Browse

Browse the library of ontologies [?](#)

**New:** [Configure](#) which ontologies you see in BioPortal

**FILTER BY CATEGORY**

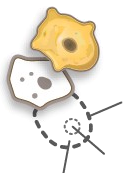
**FILTER BY GROUP** [?](#)

**FILTER BY TEXT**

[Submit New Ontology](#)

 [Subscribe to all updates](#)

ONTOLOGY NAME	VISIBILITY	TERMS	NOTES	REVIEWS	PROJECTS	UPLOADED	CONTACT
<a href="#">African Traditional Medicine (ATMO)</a>	<a href="#">Public</a>	<a href="#">223</a>	<a href="#">2</a>	<a href="#">2</a>	<a href="#">4</a>	06/28/2009	Ghislain Atemezing
<a href="#">Bioinformatics operations, types of data, data formats, and topics (EDAM)</a>	<a href="#">Public</a>	<a href="#">2,746</a>	<a href="#">0</a>	<a href="#">2</a>	<a href="#">7</a>	12/14/2012	Jon Ison
<a href="#">Common Terminology Criteria for Adverse Events (CTCAE)</a>	<a href="#">Public</a>	<a href="#">3,874</a>	<a href="#">4</a>	<a href="#">2</a>	<a href="#">2</a>	08/04/2011	CTCAE Help
<a href="#">Basic Formal Ontology (BFO)</a>	<a href="#">Public</a>	<a href="#">39</a>	<a href="#">0</a>	<a href="#">1</a>	<a href="#">22</a>	07/24/2009	Holger Stenzhorn
<a href="#">Biomedical Resource Ontology (BRO)</a>	<a href="#">Public</a>	<a href="#">486</a>	<a href="#">73</a>	<a href="#">1</a>	<a href="#">8</a>	08/31/2010	Trish Whetzel, Csongor Nyulas, Natasha Noy
<a href="#">Chemical entities of biological interest (CHEBI)</a>	<a href="#">Public</a>	<a href="#">38,551</a>	<a href="#">2</a>	<a href="#">1</a>	<a href="#">13</a>	01/09/2013	Chebi Administrators
<a href="#">Foundational Model of Anatomy (FMA)</a>	<a href="#">Public</a>	<a href="#">83,281</a>	<a href="#">0</a>	<a href="#">1</a>	<a href="#">15</a>	09/14/2010	Onard Mejino
<a href="#">Gene Ontology (GO)</a>	<a href="#">Public</a>	<a href="#">38,842</a>	<a href="#">0</a>	<a href="#">1</a>	<a href="#">52</a>	01/15/2013	Gene Ontology
<a href="#">Gene Regulation Ontology (BOOTStrep)</a>	<a href="#">Public</a>	<a href="#">508</a>	<a href="#">0</a>	<a href="#">1</a>	<a href="#">7</a>	01/09/2011	Vivian Lee
<a href="#">Hewan Invertebrata (invertebrata)</a>	<a href="#">Public</a>	<a href="#">557</a>	<a href="#">0</a>	<a href="#">1</a>	<a href="#">3</a>	08/22/2011	vasko edo gultom
<a href="#">International Classification of Diseases (ICD9CM)</a>	<a href="#">Public</a>	<a href="#">22,400</a>	<a href="#">0</a>	<a href="#">1</a>	<a href="#">6</a>	04/06/2012	Patricia Brooks
<a href="#">Kinetic Simulation Algorithm Ontology (KiSAO)</a>	<a href="#">Public</a>	<a href="#">229</a>	<a href="#">0</a>	<a href="#">1</a>	<a href="#">3</a>	12/07/2012	BioModels.net team
<a href="#">Medical Subject Headings (MeSH) (MSH)</a>	<a href="#">Public</a>	<a href="#">229,698</a>	<a href="#">0</a>	<a href="#">1</a>	<a href="#">10</a>	02/02/2012	Stuart Nelson, M.D.
<a href="#">NCBI organismal classification (NCBITaxon)</a>	<a href="#">Public</a>	<a href="#">847,760</a>	<a href="#">0</a>	<a href="#">1</a>	<a href="#">15</a>	07/11/2012	NCBI information
<a href="#">NCI Thesaurus (NCIt)</a>	<a href="#">Public</a>	<a href="#">93,411</a>	<a href="#">13</a>	<a href="#">1</a>	<a href="#">16</a>	06/08/2012	NCICB Support
<a href="#">Ontology for Biomedical Investigations (OBI)</a>	<a href="#">Public</a>	<a href="#">3,689</a>	<a href="#">4</a>	<a href="#">1</a>	<a href="#">25</a>	07/16/2012	OBI Consortium
<a href="#">Ontology of Glucose Metabolism Disorder (OGMD)</a>	<a href="#">Public</a>	<a href="#">132</a>	<a href="#">0</a>	<a href="#">1</a>	<a href="#">4</a>	04/12/2011	Yu Lin
<a href="#">Protein Ontology (pro-ont)</a>	<a href="#">Public</a>	<a href="#">42</a>	<a href="#">0</a>	<a href="#">1</a>	<a href="#">4</a>	05/18/2009	Dr. Amandeep S. Sidhu
<a href="#">SNOMED Clinical Terms (SNOMEDCT)</a>	<a href="#">Public</a>	<a href="#">395,036</a>	<a href="#">2</a>	<a href="#">1</a>	<a href="#">12</a>	02/13/2012	Vivian A. Auld
<a href="#">Units of measurement (UO)</a>	<a href="#">Public</a>	<a href="#">313</a>	<a href="#">0</a>	<a href="#">1</a>	<a href="#">8</a>	08/30/2012	George Gkoutos
<a href="#">ABA Adult Mouse Brain (ABA)</a>	<a href="#">Public</a>	<a href="#">913</a>	<a href="#">0</a>	<a href="#">0</a>	<a href="#">6</a>	08/08/2009	Allen Institute for Brain Science
<a href="#">Adverse Event Reporting ontology (AERO)</a>	<a href="#">Public</a>	<a href="#">388</a>	<a href="#">1</a>	<a href="#">0</a>	<a href="#">3</a>	12/18/2012	Melanie Courtot



# Ontology Reviews

NCI Thesaurus

Summary ▾

## Details

ONTOLOGY ID:	1032
BIOPORTAL PURL:	<a href="http://purl.bioontology.org/ontology/NCIt">http://purl.bioontology.org/ontology/NCIt</a>
STATUS:	Production
FORMAT:	OWL
CATEGORIES:	
GROUPS:	Unified Medical Language System Cancer Biomedical Informatics Grid
CONTACT:	NCICB Support, <a href="mailto:ncicb@pop.nci.nih.gov">ncicb@pop.nci.nih.gov</a>
HOME PAGE:	<a href="http://ncicb.nci.nih.gov/core/EVS">http://ncicb.nci.nih.gov/core/EVS</a>
PUBLICATIONS PAGE:	
DOCUMENTATION PAGE:	<a href="http://nciterms.nci.nih.gov">http://nciterms.nci.nih.gov</a>
DESCRIPTION:	A vocabulary for clinical care, translational and basic research, and public information and administrative activities.
LICENSE INFORMATION	The version of the NCI Thesaurus (NCIt) available in BioPortal has been modified by reformatting some property values so that they can be more easily browsed (replacing or removing embedded XML). The original, unmodified NCIt, as well as NCIt license information, is available at <a href="http://ncit.nci.nih.gov">http://ncit.nci.nih.gov</a>

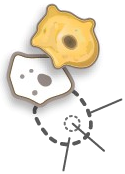
## Reviews

[Add your review](#)

REVIEW BY DECORONS ON 02/07/2011

- ★★★★★ Usability
- ★★★★★ Domain Coverage
- ★★★★★ Correctness
- ★★★★★ Quality Of Content
- ★★★★★ Degree Of Formality
- ★★★★★ Documentation And Support

Good coverage for cancer research domains and moderate coverage for more general health care research. Especially good cancer related drug coverage, and chemotherapy regimen coverage. Includes number of standards used by the community, including CDISC, UCUM, FDA standard product labeling terminology, and others. Quality in many areas high. OWL DL, but degree of formality varies by area of the terminology. Available through easy to use browsers, API and multiple download formats.



# Notes

## Pathway ontology

Terms ▾

Jump To:

Details Visualization **Notes (1)** Term Mappings (0) Term Resources

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SUBJECT	AUTHOR	TYPE	CREATED
<a href="#">Why are these cellular detoxification pathways considered "regulatory"</a>	anonymous	Comment	01/07/2013

### Why are these cellular detoxification pathways considered "regulatory"

Comment submitted by anonymous 9 days ago on [cellular detoxification pathway](#) in [Pathway ontology](#)

These pathways detoxify and metabolise a lot of things: hormones, xenobiotic compounds like drugs and some well know toxicants and for instance ethanol. Some of these compounds or the compounds formed have a regulatory function, but I think these are not primarily regulatory pathways. I would rather changes "metabolic pathways" on top of the current "classic metabolic pathways" which I would actually rename that to "nutritional" and have these detoxification (or modifying?) next to that.

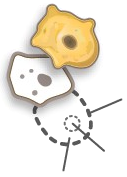
**Responses** [hide all](#) | [show all](#)

**cellular detoxification pathway** by vpetri 9 days ago

The term is intended to represent the regulatory aspect/content of the compounds. While xenobiotics and drugs are also metabolized by the same machinery, there are terms in the ontology for taking that aspect into account. 'xenobiotics degradation pathway' is a [parent] term for various xenobiotics compounds; a node within the ontology is dedicated to drugs.

[reply](#)

[Add Note](#)



# Ontology Summit Expectations

- Use the Summit communique as a foundation for ontology evaluation criteria to implement and disseminate through BioPortal
- Enable users to better select ontologies for their specific project based on this criteria