
OntoSelect: A Browser and Search Engine for Ontologies

Paul Buitelaar

Competence Center Semantic Web &

Language Technology Lab

DFKI GmbH

Saarbrücken, Germany

Overview

Ontology Life-Cycle

Ontology Browse & Search – *OntoSelect*

One More Thing: ‘Global Ontology-based Dictionary’

Ontology Life Cycle

Populate
Knowledge Base Generation

Validate
Consistency Checks

Create/Select
Development and/or Selection

Deploy
Knowledge Retrieval

Evolve
Extension, Modification

Maintain
Usability Tests

Ontology Life Cycle

Populate
Knowledge Base Generation

Create/Select
Development and/or Selection

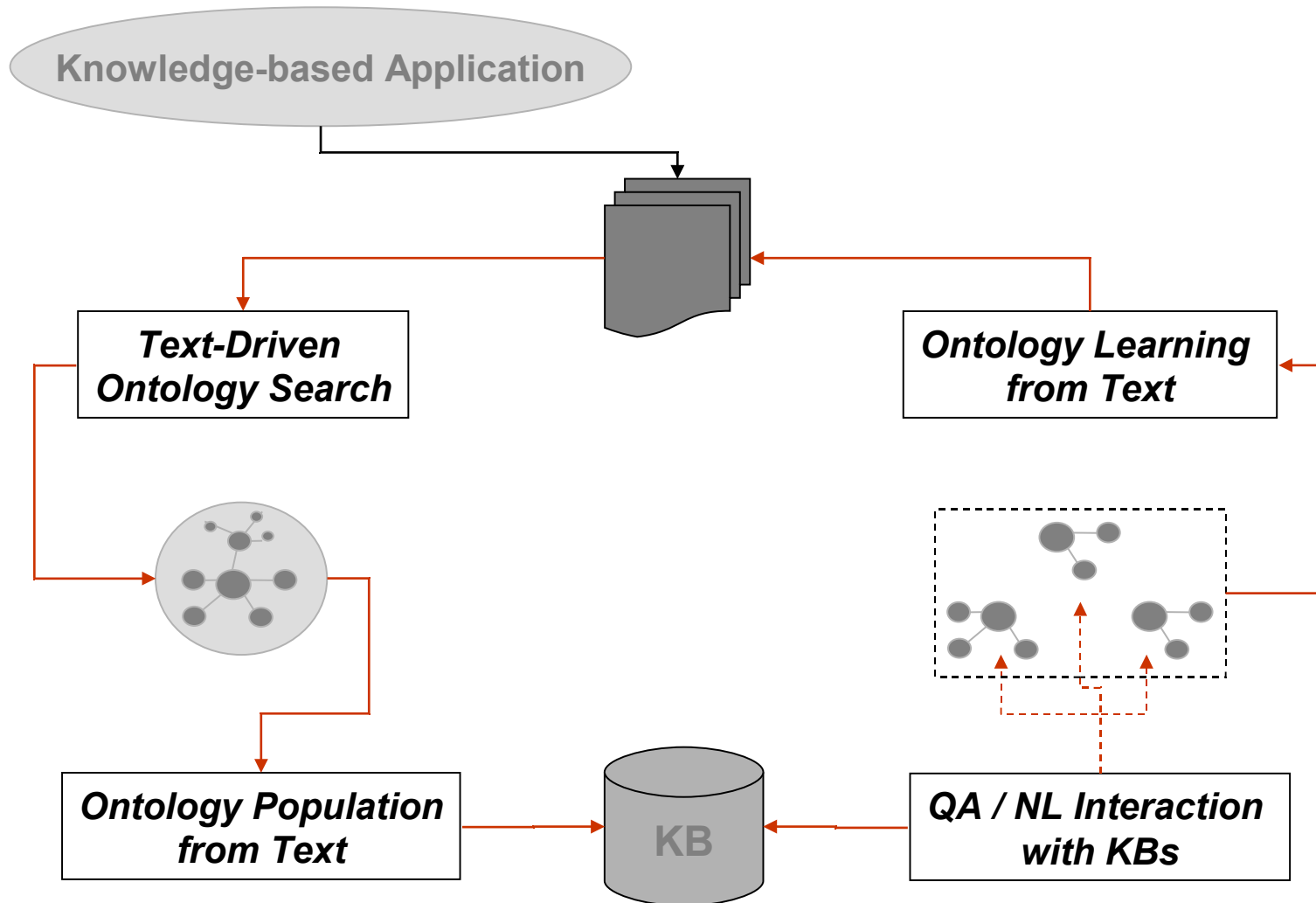
Validate
Consistency Checks

Deploy
Knowledge Retrieval

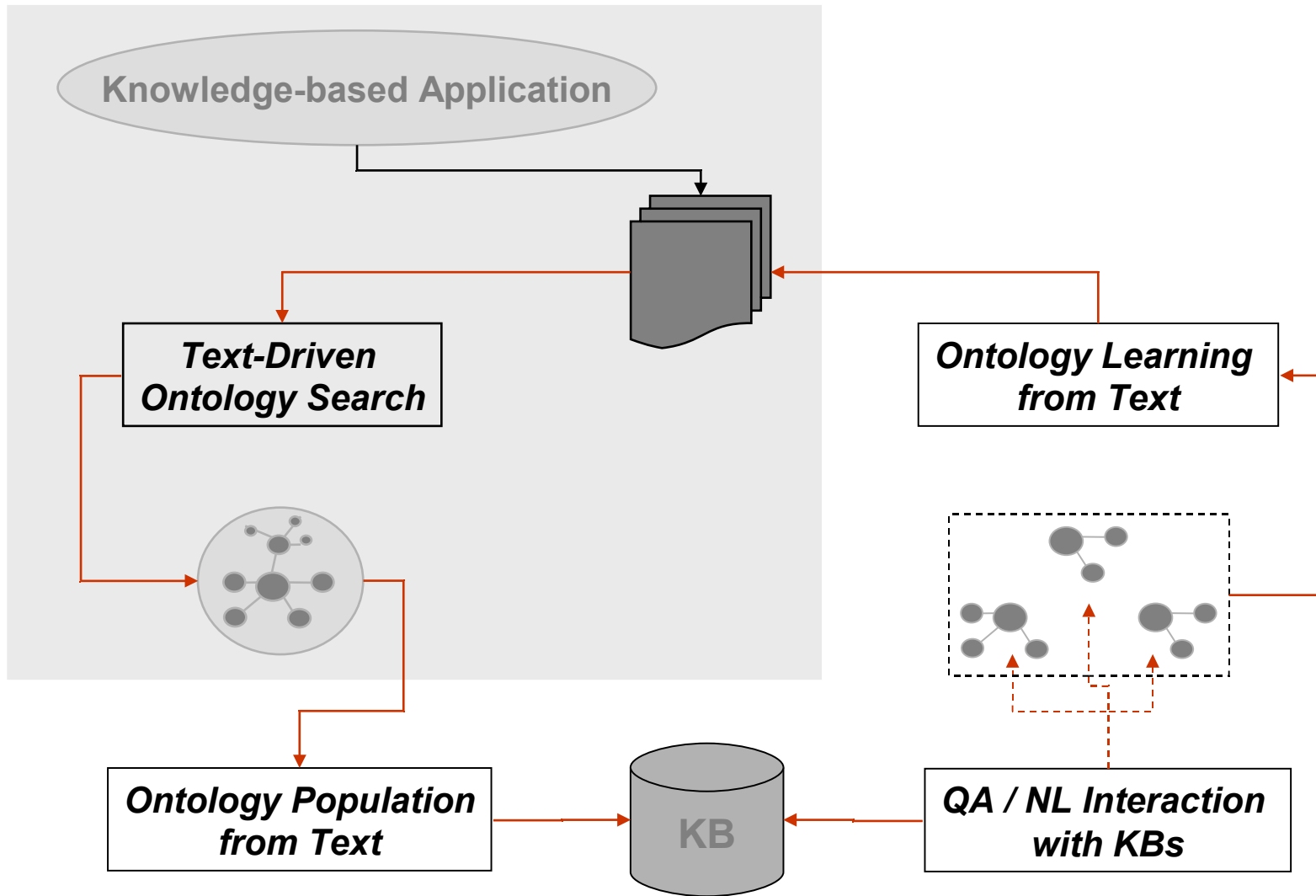
Evolve
Extension, Modification

Maintain
Usability Tests

Ontology Life Cycle & Text Analysis



Ontology Search & Text Analysis



OntoSelect

- Ontology Library and Ontology Search Service

<http://olp.dfki.de/OntoSelect>

- OntoSelect monitors the web for ontologies (indexing/updates)
- Ontology browse and search (by keyword, topic, document)
- Class, property and (multilingual) label browse and search
- Ontology publishing (submit your ontology)
- Statistics on
 - Formats
 - Human languages
 - Frequently used labels
 - Ontology publishing

Browse Ontologies

OntoSelect - Browse Ontologies - Microsoft Internet Explorer

Adresse <http://olp.dfki.de/ontoselect?wicket:bookmarkablePage=:de.dfki.ontoselect.BrowseOntologies>

OntoSelect

- Home
- Statistics
- Submit

Browse

- Ontologies
- Labels
- Classes
- Properties
- Top Labels

Browse Ontologies

Show ontologies starting with:

«all» A B C D E E G H I J K L M N O P Q R S I U V W X Y Z 0-9 «fest»

Title	Domain	Format	Language	Labels	Classes	Properties	Included Ontologies (*)
nciOncology	mindswap.org	owl (Lite)		27652	27652	70	0.0 (0)
unspsc84-egci	few.vu.nl	rdfs		16500	16505	0	0.0 (0)
goJune03	cs.man.ac.uk	daml		13925	16249	3	0.0 (0)
context-plus-human	aiai.ed.ac.uk	owl (Full)		2357	2359	15	0.0 (0)
swinto0_3_1	smartweb.dfki.de	rdfs		2001	2006	918	0.0 (0)
DataFed_2005_classes	compbio.uchsc.edu	rdfs		1746	1750	18	0.0 (0)
group78	www2.sims.berkeley.edu	owl (Lite)		1879	1650	101	0.0 (1)
cyc	xbean.cs.ccu.edu.tw	daml		1650	1717	5	0.0 (0)
cyc	volcano.net	daml		1650	1717	5	0.0 (0)
sequence	fruitfly.org	owl (Lite)	en	1254	1252	18	0.0 (0)
FIX	berkeleybop.org	owl (Lite)	en	1163	1169	6	0.0 (0)
allmonet	cs.man.ac.uk	owl (DL)		781	2018	34	0.0 (0)
psi-mi	fruitfly.org	owl (Lite)	en	773	778	2	0.0 (0)
psi-mi	berkeleybop.org	owl (Lite)	en	773	778	2	0.0 (0)
flvbase_vocab	fruitfly.org	owl (Lite)	en	692	698	1	0.0 (0)
Technologies	gate.ac.uk	daml	de en	671	677	9	0.0 (0)
classes	vistology.com	owl (Lite)		637	672	0	0.0 (0)
swpatho2	swpatho.ag-nbi.de	owl (DL)	de	594	635	5	0.0 (2)
Employment	gate.ac.uk	daml	de en	588	574	3	0.0 (0)
mygrid	cs.man.ac.uk	owl (DL)		557	550	89	0.0 (0)
comma	pauillac.inria.fr	rdfs	en fr	470	474	73	0.0 (0)
comma	pauillac.inria.fr	rdfs	en fr	470	474	73	0.0 (0)
p3prdfv1	w3.org		en	409	417	364	0.0 (0)
mygrid	cvs.mygrid.org.uk	daml		409	502	13	0.0 (0)
OpenDrama	rhizomik.upf.edu	owl (Lite)	ca de en es fr it la pt	389	389	0	0.0 (0)
bioGoldStandard	kmi.open.ac.uk	daml		378	430	13	0.0 (0)
TVAnytimeContent	rhizomik.net	owl (Lite)	en	376	376	0	0.0 (0)
rdfsMethod2Ontology	kmi.open.ac.uk	rdfs		369	369	0	0.0 (0)

(*) Format: score (number)

Browse Ontologies – Included Ontologies

Title	Domain	Format	Language	Labels	Classes	Properties	Included Ontologies (*)
1	purl.org		en-US	15	0	15	18.0 (0)
22-rdf-syntax-ns	w3.org			7	0	7	16.0 (0)
annotation	ontology.dumontierlab.com			0	0	0	14.0 (0)
rdf-schema	w3.org			9	0	9	13.0 (0)
protege	protege.stanford.edu			0	2	0	10.0 (0)
IVOAO	archive.astro.umd.edu	owl (DL or Full)		439	561	0	9.55 (4)
Process	daml.org	daml		0	43	53	9.45 (3)
Process	daml.org	owl (Full)		2	33	0	9.1 (3)
owl	w3.org			23	0	23	8.0 (0)
ExtendedDnS	loa-cnr.it	owl (DL or Full)		0	59	111	8.0 (3)
BIRNLex_annotation_properties	purl.org	owl (DL or Full)		2	9	0	7.88 (1)
Profile	daml.org	owl (Full)		1	3	0	7.5 (2)
astronomy	archive.astro.umd.edu	owl (Full)		1231	1518	0	7.5 (7)
property	sweet.jpl.nasa.gov	owl (DL or Full)		0	263	4	7.22 (4)
instruments	archive.astro.umd.edu	owl (Full)		489	493	0	7.0 (5)
BIRNLex-OBO-UBO	purl.org	owl (Full)		24	24	1	6.75 (2)
Process	daml.org	daml		0	38	53	6.67 (3)
numerics	sweet.jpl.nasa.gov	owl (DL or Full)		0	119	1	6.25 (3)
Profile	daml.org	daml		7	18	39	6.25 (3)
concepts	daml.ri.cmu.edu	daml		0	12	0	6.25 (3)
BravoAirProcess	daml.org	daml		1	6	15	6.18 (7)
Process	daml.org	daml		0	34	47	6.0 (3)
Service	daml.org	daml		4	4	11	6.0 (0)
space	sweet.jpl.nasa.gov	owl (Full)		0	133	4	5.5 (4)
human_activities	sweet.jpl.nasa.gov	owl (Full)		0	154	0	5.33 (2)
Middle	polowinski.de	owl (DL or Full)	de	1	33	0	5.33 (2)
1	ifomis.org			1	1	0	5.0 (1)
time	w3.org			0	11	0	5.0 (0)
Service	daml.org	owl (Full)		4	4	0	5.0 (0)
Profile	daml.org	daml		7	17	39	5.0 (4)

Ontology Search with *OntoSelect*

“Find the background knowledge that fits your task ...”

- Keyword, topic, document-specific ontology search
- Relevance criteria address ontology content and structure:
 - *Coverage* - Term Matching
 - How many of the terms in a text collection are covered by labels for classes and properties?
 - *Structure* - Properties Relative to Classes
 - How detailed is the knowledge structure that the ontology represents?
 - *Connectedness* - Number of Included Ontologies
 - Is the ontology connected to other ontologies and how well established are these?

Keyword Search

OntoSelect - Search Ontologies - Windows Internet Explorer

http://olp.dfki.de/ontoselect?wicket:interface=:2::

Live Search

OntoSelect - Search Ontologies

OntoSelect


- Home
- Statistics
- Submit

Browse

- Ontologies
- Labels
- Classes
- Properties
- Top Labels

Search

- Ontologies
- Labels
- Classes
- Properties



Search Ontologies

Ontologies can be searched by ontology title (form on the left) or by topic (form on the right). In the case of topic search you can either specify a URL for a web document that represents the topic of the ontology that you are searching for or you can give the topic itself which is then linked to a corresponding Wikipedia page that will be used for your search. Please note: In ontology title search only the keyword(s) that you give will be used for your search. In topic search a linguistically/statistically derived set of most relevant keywords will be extracted automatically and used for your search. In both cases you can restrict your search to the ontology format (DAML, OWL, RDFS) and/or natural language (see pull down menu) that you prefer.

ontology title search

Title:

Format:

Language:

ontology topic search

Mode: URL Wikipedia Topic

URL / Topic:

Format:

Language:

Showing 1 to 1 of 1

Title	Domain	Format	Language	Labels	Classes	Properties	Included Ontologies (*)
pharmacogeneticsontology	loria.fr	owl (Lite)		0	121	0	0.0 (0)

(*) Format: score (number)

Topic Search

Genetics - Wikipedia, the free encyclopedia - Microsoft Internet Explorer

Datei Bearbeiten Ansicht Favoriten Extras ?

Zurück Suchen Favoriten

Adresse <http://en.wikipedia.org/wiki/Genetics> Wechseln zu Links

[Sign in / create account](#)

Your continued donations keep Wikipedia running!

Genetics

From Wikipedia, the free encyclopedia

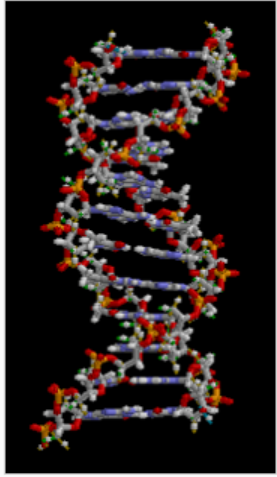
For the scientific journal see [Genetics \(journal\)](#)

Genetics is the [science](#) of [heredity](#) and [variation](#) in living [organisms](#).^{[1][2][3]} Knowledge that desired characteristics were inherited has been implicitly used since [prehistoric](#) times for improving crop plants and animals through [selective breeding](#). However, the modern science of genetics, which seeks to understand the mechanisms of inheritance, only began with the work of [Gregor Mendel](#) in the mid-1800s.^[4]

Mendel observed that inheritance is fundamentally a [discrete](#) process with specific traits that are inherited in an independent manner. These basic units of inheritance is now known as "[genes](#)". In the [cells](#) of organisms, genes exist physically in the structure of the molecule [DNA](#) and the information genes contain is used to create and control the components of cells. Although genetics plays a large role in determining the appearance and behavior of organisms, it is the interaction of genetics with the environment an organism experiences that determines the ultimate outcome. For example, while genes play a role in determining a person's [height](#), the [nutrition](#) and [health](#) that person experiences in childhood also have a large effect.

Contents [\[hide\]](#)

- Features of inheritance
 - Discrete inheritance and Mendel's laws
 - Assortment and interactions of multiple genes
- The molecular basis for inheritance
 - DNA and the genetic code
 - Chromosomes, recombination, and linkage
 - Epigenetic inheritance
- Genetic research and technology
 - Model organisms and genetics
 - Medical genetics research
 - Genetic technologies
 - DNA sequencing & genomics



DNA, the molecular basis for inheritance.

navigation

- Main page
- Contents
- Featured content
- Current events
- Random article

interaction

- About Wikipedia
- Community portal
- Recent changes
- Upload-file wizard
- Contact us
- Make a donation
- Help

search

toolbox

- What links here
- Related changes
- Upload file

Topic Search

ontology title search

Title:

Format:

Language:

ontology topic search

Mode: URL Wikipedia Topic

URL / Topic:

Format:

Language:

Top 20 keywords found in input document:

Keyword	Significance
inheritance	14888.25
trait	7853.22
organism	2834.07
gene	946.01
height	862.27
square	326.85
dominance	290.29
research	191.91
variation	132.32
evolution	127.72
plant	113.12
journal	110.38
crop	93.46
interaction	91.92
structure	88.93
level	86.73
mutation	84.08
offspring	82.1
environment	81.67
outcome	66.25

Topic Search

Best ontologies found in input document:

Score	Title	Matches (*)	Domain	Format	Language	Labels	Classes	Properties	Connectedness	Structure	Coverage	
3.48	nciOncology	gene (946.01), height (862.27), research (191.91), variation (132.32), evolution (127.72), plant (113.12), level (86.73), mutation (84.08), environment (81.67), outcome (66.25)	mindswap.org	owl (Lite)			<u>27652</u>	<u>27652</u>	<u>70</u>	0.0	0.0	0.7
1.5	bioGoldStandard	organism (2834.07), gene (946.01), structure (88.93)	kmi.open.ac.uk	daml			<u>378</u>	<u>430</u>	<u>13</u>	0.0	0.0	1.0
1.5	mygrid	organism (2834.07), gene (946.01), structure (88.93)	cvs.mygrid.org.uk	daml			<u>409</u>	<u>502</u>	<u>13</u>	0.0	0.0	1.0
1.5	mygrid	organism (2834.07), gene (946.01), structure (88.93)	cs.man.ac.uk	owl (DL)			<u>557</u>	<u>550</u>	<u>69</u>	0.0	0.0	1.0
1.17	swinto0.3.1	organism (2834.07), plant (113.12), environment (81.67)	smartweb.dfki.de	rdfs			<u>2001</u>	<u>2006</u>	<u>918</u>	0.0	0.0	0.78
0.75	QBI	organism (2834.07), environment (81.67)	fugo.sourceforge.net	owl (Full)	en		<u>153</u>	<u>161</u>	<u>9</u>	0.0	0.0	0.75
0.7	umlssn	organism (2834.07)	swpatho.ag-nbi.de	owl (DL)	de en		<u>75</u>	<u>87</u>	<u>65</u>	1.0	0.0	0.73
0.5	group78	height (862.27), square (326.85), plant (113.12)	www2.sims.berkeley.edu	owl (Lite)			<u>1679</u>	<u>1650</u>	<u>101</u>	0.0	0.0	0.34
0.43	psi-mi	gene (946.01), interaction (91.92), mutation (84.08)	fruitfly.org	owl (Lite)	en		<u>773</u>	<u>778</u>	<u>2</u>	0.0	0.0	0.29
0.43	psi-mi	gene (946.01), interaction (91.92), mutation (84.08)	berkeleybop.org	owl (Lite)	en		<u>773</u>	<u>778</u>	<u>2</u>	0.0	0.0	0.29
0.37	dolce2.0-lite-v3	organism (2834.07)	coli.lili.uni-bielefeld.de	owl (DL)			<u>81</u>	<u>79</u>	<u>75</u>	0.0	0.0	0.73
0.37	context-core	organism (2834.07)	aiai.ed.ac.uk	owl (Full)			<u>29</u>	<u>31</u>	<u>15</u>	0.0	0.0	0.73
0.37	MGEDOntology	organism (2834.07)	mged.sourceforge.net	daml			<u>228</u>	<u>437</u>	<u>10</u>	0.0	0.0	0.73
0.37	context-plus-human	organism (2834.07)	aiai.ed.ac.uk	owl (Full)			<u>2357</u>	<u>2359</u>	<u>15</u>	0.0	0.0	0.73
0.37	loggerhead_nesting	organism (2834.07)	fruitfly.org	owl (Lite)	en		<u>308</u>	<u>314</u>	<u>4</u>	0.0	0.0	0.73
0.37	context-core- protege	organism (2834.07)	aiai.ed.ac.uk	owl (Full)			<u>29</u>	<u>31</u>	<u>15</u>	0.0	0.0	0.73
0.37	obi	organism (2834.07)	berkeleybop.org	owl (Full)	en		<u>198</u>	<u>211</u>	<u>15</u>	0.0	0.0	0.73
0.37	context-plus-mouse	organism (2834.07)	aiai.ed.ac.uk	owl (Full)			<u>3555</u>	<u>3557</u>	<u>15</u>	0.0	0.0	0.73
0.26	comma	research (191.91), journal (110.38), structure (88.93)	pauillac.inria.fr	rdfs	en fr		<u>470</u>	<u>474</u>	<u>73</u>	0.0	0.0	0.13
0.2	russiaA	square (326.85), plant (113.12), level (86.73)	aifb.uni-karlsruhe.de	owl (Lite)	en		<u>150</u>	<u>151</u>	<u>60</u>	0.0	0.0	0.14

(*) Format: matching keyword in ontology (significance)

Document-Specific Search

Home : Nature Genetics - Microsoft Internet Explorer

Adresse <http://www.nature.com/ng/index.html>

nature.com Jump to main content Jump to navigation LOGIN

nature genetics REGISTER > MY ACCOUNT > SUBSCRIBE > E-ALERT SIGN UP >

PUBLICATIONS A-Z INDEX > BROWSE BY SUBJECT > SEARCH [] This journal [] go ADVANCED SEARCH >

ADVERTISEMENT

PROGENY Combine with Genetic Data for Genome Wide Association or LINKAGE studies Download a FREE Trial >

Journal content

- Journal home
- Advance online publication
- Current issue
- Archive
- Focuses and Supplements
- Press releases
- Free Association (blog)

Journal information

- Guide to authors
- Online submission
- Permissions
- For referees
- Free online issue
- Contact the journal
- Subscribe
- About this site

NPG services

- Authors & Referees
- Advertising
- work@npg
- naturereprints

CURRENT ISSUE
June 2007 - Vol 39 No 6

- [MAPK p38 \$\alpha\$ in progenitor cell proliferation and tumorigenesis](#)
- [HLA-B and NK cell receptors influence HIV-1 infection](#)
- [Reduced insulin secretion and the risk of type 2 diabetes](#)

> [Current issue table of contents](#)
> [Advance Online Publication \(AOP\)](#)

LATEST HIGHLIGHTS

ADVANCE ONLINE PUBLICATION

Breast cancer susceptibility variants

> [Letter by David Hunter et al.](#)
> [Letter by Simon Stacey et al.](#)

In a whole-genome scan, David Hunter and colleagues report that variants in the gene encoding the receptor tyrosine kinase *FGFR2* are associated with risk of breast cancer in postmenopausal women. In a separate study, Simon Stacey and colleagues report an association between variants on chromosomes 2 and 16 and estrogen receptor-positive breast

CURRENT ISSUE

DNA breakage in living color

> [Letter by Jeanine Pennington & Susan Rosenberg](#)

Jeanine Pennington and Susan Rosenberg report the first direct measurement of spontaneous DNA lesions in living cells. They show that rates of spontaneous double-strand breakage in *E. coli* are approximately 20- to 100-fold lower than predicted, suggesting that they are much more potent inducers of genomic instability than previously realized.

Subscribe to Nature Genetics

Subscribe

Journal services

- Sign up for e-alerts
- Recommend to your library
- Web feeds
- Nature Genetics in the news (external link)
- Impact factor

naturejobs

- Scientist**
Bioinformatics
Sienabiotech
Tuscany, Italy
- Laboratory Manager**
Cancer Research / Oncology
Pierre Fabre Laboratories
Castres Cedex, France

> [More science jobs](#)

natureproducts

search buyers guide

Document-Specific Search

OntoSelect - Search Ontologies

LinearOrdering Theories Types Collections
OntoSelect ontology
Integers Reals ZF-Sets VNGB-Sets 0.2

Search Ontologies

Ontologies can be searched by ontology title (form on the left) or by topic (form on the right). In the case of topic search you can either specify a URL for a web document that represents the topic of the ontology that you are searching for or you can give the topic itself which is then linked to a corresponding Wikipedia page that will be used for your search. Please note: In ontology title search only the keyword(s) that you give will be used for your search. In topic search a linguistically/statistically derived set of most relevant keywords will be extracted automatically and used for your search. In both cases you can restrict your search to the ontology format (DAML, OWL, RDFS) and/or natural language (see pull down menu) that you prefer.

ontology title search	ontology topic search
Title: <input type="text"/>	Mode: <input checked="" type="radio"/> URL <input type="radio"/> Wikipedia Topic
Format: <input type="text" value="all formats"/>	URL / Topic: <input type="text" value="http://www.nature.com/ng"/>
Language: <input type="text" value="all languages"/>	Format: <input type="text" value="all formats"/>
<input type="button" value="Search"/>	Language: <input type="text" value="all languages"/>
	<input type="button" value="Search"/>

Document-Specific Search

Top 20 keywords found in input document:

Keyword	Significance
fusion	2475.0
receptor	476.41
biology	460.07
research	286.3
cancer	242.57
anniversary	218.74
risk	192.53
breast	176.35
journal	165.48
discovery	132.0
issue	126.19
secretion	121.97
muscle	121.96
gene	112.16
privacy	111.81
jump	104.31
glimpse	103.84
search	98.58
submission	75.83
cell	75.8

Document-Specific Search

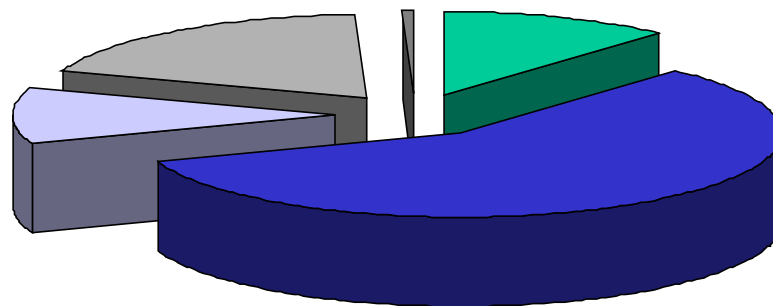
Best ontologies found in input document:

Score	Title	Matches (*)	Domain	Format	Language	Labels	Classes	Properties	Connectedness	Structure	Coverage
4.04	nciOncology	receptor (476.41), biology (460.07), research (286.3), risk (192.53), breast (176.35), muscle (121.96), gene (112.16), privacy (111.81), submission (75.83), cell (75.8)	mindswap.org	owl (Lite)		<u>27652</u>	<u>27652</u>	<u>70</u>	0.0	0.0	0.81
1.0	sequence	fusion (2475.0), gene (112.16)	fruitfly.org	owl (Lite)	en	<u>1254</u>	<u>1252</u>	<u>18</u>	0.0	0.0	1.0
0.48	OpenDrama	fusion (2475.0)	rhizomik.upf.edu	owl (Lite)	ca de en es fr it la pt	<u>389</u>	<u>389</u>	<u>0</u>	0.0	0.0	0.96
0.36	comma	research (286.3), journal (165.48)	pauillac.inria.fr	rdfs	en fr	<u>470</u>	<u>474</u>	<u>73</u>	0.0	0.0	0.24
0.2	akt_ontology_LITE	journal (165.48)	csd.abdn.ac.uk	owl (DL)		<u>58</u>	<u>61</u>	<u>53</u>	0.5	0.0	0.06
0.19	ResourceModel	discovery (132.0)	www-2.cs.cmu.edu	owl (Lite)		<u>6</u>	<u>11</u>	<u>15</u>	0.0	1.0	0.05
0.16	DataFed_2005_classes	cancer (242.57), breast (176.35)	compbio.uchsc.edu	rdfs		<u>1746</u>	<u>1750</u>	<u>18</u>	0.0	0.0	0.16
0.14	cyc	cancer (242.57), muscle (121.96)	xbean.cs.ccu.edu.tw	daml		<u>1650</u>	<u>1717</u>	<u>5</u>	0.0	0.0	0.14
0.14	cyc	cancer (242.57), muscle (121.96)	volcano.net	daml		<u>1650</u>	<u>1717</u>	<u>5</u>	0.0	0.0	0.14
0.09	context-plus-mouse	muscle (121.96)	aiai.ed.ac.uk	owl (Full)		<u>3555</u>	<u>3557</u>	<u>15</u>	0.0	0.0	0.09
0.08	goJune03	secretion (121.97), cell (75.8)	cs.man.ac.uk	daml		<u>13925</u>	<u>16249</u>	<u>3</u>	0.0	0.0	0.08
0.08	swinto0.3.1	muscle (121.96), cell (75.8)	smartweb.dfki.de	rdfs		<u>2001</u>	<u>2006</u>	<u>918</u>	0.0	0.0	0.08
0.05	ijcar-demo-1	cancer (242.57)	cs.man.ac.uk	daml		<u>4</u>	<u>11</u>	<u>4</u>	0.0	0.0	0.09
0.04	russiaA	risk (192.53)	aifb.uni-karlsruhe.de	owl (Lite)	en	<u>150</u>	<u>151</u>	<u>60</u>	0.0	0.0	0.07
0.03	comma	journal (165.48)	pauillac.inria.fr	rdfs	en fr	<u>470</u>	<u>474</u>	<u>73</u>	0.0	0.0	0.06
0.03	swportal	journal (165.48)	sib.deri.ie	owl (Full)	en	<u>80</u>	<u>70</u>	<u>65</u>	0.0	0.0	0.06
0.03	swportal	journal (165.48)	triple.semanticweb.org	owl (Full)	en	<u>80</u>	<u>70</u>	<u>65</u>	0.0	0.0	0.06
0.02	bioGoldStandard	gene (112.16)	kmi.open.ac.uk	daml		<u>378</u>	<u>430</u>	<u>13</u>	0.0	0.0	0.04
0.02	psi-mi	gene (112.16)	berkeleybop.org	owl (Lite)	en	<u>773</u>	<u>778</u>	<u>2</u>	0.0	0.0	0.04
0.02	mygrid	gene (112.16)	cs.man.ac.uk	owl (DL)		<u>557</u>	<u>550</u>	<u>69</u>	0.0	0.0	0.04

OntoSelect Statistics - Formats

Distribution of formats in 1530 ontologies currently collected

Ontologies by Format	Count	Percent
owl	885	57.84
» full	429	28.04
» lite	157	10.26
» DL	0	0.0
unknown	292	19.08
daml	177	11.57
rdfs	166	10.85
rdf	8	0.52
n3	2	0.13

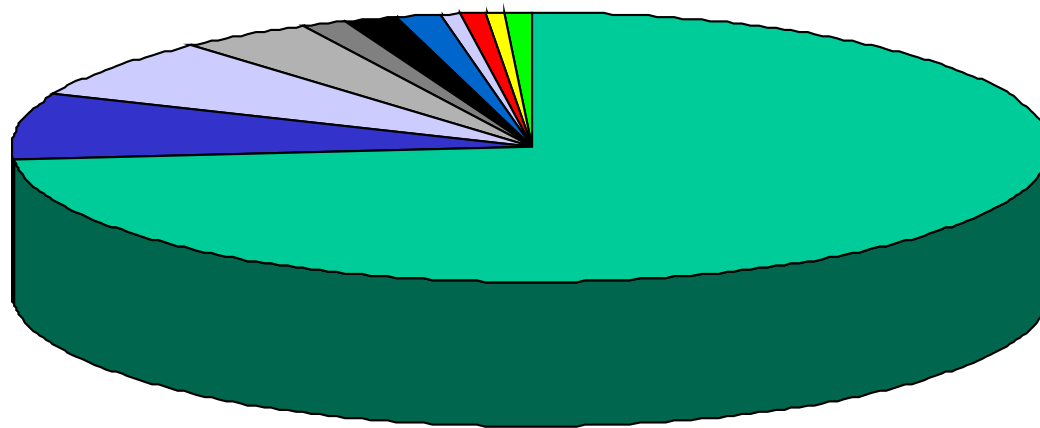


OntoSelect Statistics - Publishers

Ontologies by Domain (Top 25)	Count	Percent
daml.org	75	4.9
purl.org	60	3.92
w3.org	31	2.03
ontology.dumontierlab.com	28	1.83
mensa.sl.iupui.edu	27	1.76
loa-cnr.it	19	1.24
sweet.jpl.nasa.gov	16	1.05
archive.astro.umd.edu	15	0.98
tssq.org	14	0.92
semanticdesktop.org	13	0.85
loria.fr	12	0.78
cs.umd.edu	12	0.78
cs.vu.nl	11	0.72
ns.aitpros.com	11	0.72
metadata.net	11	0.72
cs.umbc.edu	10	0.65
iridl.ideo.columbia.edu	10	0.65
domainmodeling.com	9	0.59
cs.cmu.edu	9	0.59
wow.sfsu.edu	9	0.59
musil.uni-muenster.de	9	0.59
swop-project.eu	8	0.52
polowinski.de	8	0.52
isi.edu	8	0.52
estrellaproject.org	8	0.52

OntoSelect Statistics - Multilinguality

Distribution of languages in 136 ontologies with multilingual labels - out of 1530 ontologies currently collected (~9%)



OntoSelect Statistics - Labels

Most frequently used labels ('words', 'terms') in 1530 ontologies

Label	Count	Ontology-IDs
person	22	75 83 115 136 140 148 69 109 242 325 444 846 856 868 951 979 1003 1154 1215 1233 1242 1347
location	22	136 140 183 242 325 399 454 467 846 853 874 906 951 1035 1066 1154 1198 1208 1215 1233 1242 1433
address	21	136 140 52 109 325 454 490 491 536 766 811 846 874 877 889 916 919 993 1066 1153 1215
duration	20	46 90 11 128 454 456 500 583 766 806 853 874 906 925 1015 1242 1305 1433 1435 1524
country	15	136 109 242 262 325 690 877 993 1013 1127 1153 1215 1222 1242 1437
[no title]	14	51 131 189 242 252 274 276 319 362 744 945 1041 1103 1319
organization	14	83 136 148 65 325 444 448 846 856 979 1154 1215 1242 1524
name	14	109 242 490 491 853 856 877 919 979 982 993 1046 1222 1233
time	13	11 242 467 534 583 766 806 874 1035 1166 1215 1242 1436
title	12	46 262 856 874 910 979 1127 1305 1434 1436 1437 1452
image	12	47 148 325 444 534 685 949 979 1166 1231 1306 1321
event	12	102 119 175 325 846 874 1046 1066 1154 1215 1226 1242
date	12	242 766 845 853 906 910 1153 1196 1233 1433 1436 1439
service	11	62 89 109 536 615 983 1154 1187 1206 1316 1343
description	11	582 874 877 889 906 1066 1196 1241 1433 1434 1452
publication	10	83 115 136 109 490 856 868 916 1003 1017
action	10	140 175 183 362 425 444 766 906 1347 1433
part of	10	45 56 583 697 868 919 1123 1242 1491 1524
book	9	46 83 136 325 674 856 1017 1153 1305
volume	9	46 69 11 454 490 806 910 916 1305
comment	9	47 454 906 953 1016 1196 1306 1433 1434
profile	9	120 789 855 1023 1035 1066 1126 1198 1208
city	9	136 140 109 262 325 846 1127 1153 1242
imports	9	18 71 418 429 451 472 842 1202 1238
has topic	9	56 267 582 583 697 1241 1242 1264 1524
version	9	68 490 536 582 853 906 1241 1433 1434
thing	9	175 451 456 469 846 871 1015 1202 1242
member	9	454 663 685 906 953 979 1231 1321 1433
topic	9	454 663 685 979 1066 1154 1231 1242 1321
unit	8	46 140 212 324 444 1035 1067 1305
organism	8	51 90 128 307 444 846 1260 1319
entity	8	52 22 796 998 1001 1150 1190 1215

One More Thing ...

■ Ontology Repository as a Distributed Dictionary

Dictionaries represent interpretations of words through senses, e.g., for “*article*”

1. An individual thing or element of a class...
2. A particular section or item of a series in a written document...
3. A non-fictional literary composition that forms an independent part of a publication...
4. The part of speech used to indicate nouns and to specify their application
5. A particular part or subject; a specific matter or point

(as provided by <http://dictionary.reference.com/>)

Class Definitions for „article“

Search Labels

To search for labels in Ontoselect, just give a string that will be matched to indexed labels. Labels can be searched according to natural language (see pull down menu) that you prefer. If you know the OntoSelect ID of a specific ontology in which the label should occur, you can restrict your search to this (optional!).

Label:	<input type="text" value="^article\$"/>
Language:	<input type="text" value="all languages"/> ▼
Ontology-ID:	<input type="text"/>
<input type="button" value="Search"/>	

Showing 1 to 26 of 26

<< < 1 > >>

Label	Language	Ontology-ID
article	en	2237
article		2247
article	en	2314
article		2359
article	en	2395
article		2462
article	en	2565
article	en	2681
article		2744
article		2856
article		2858
article		2884
article	en	2925
article		2938
article	en	2946
article		2992
article	fr	3092
article	en	3189
article	en	3227
article		3337
article		3343
article		3392
article	en	3512
article		3513
article		3623
article		3636

article - sense 2

- COMMA ontology on document management
 - <http://pauillac.inria.fr/cdrom/ftp/ocomma/comma.rdfs>
 - In this ontology the class *article* corresponds to sense 2 ('section of a written document'):

```
- <rdfs:Class rdf:ID="Article">
  <rdfs:subClassOf rdf:resource="#Document" />
  <rdfs:subClassOf rdf:resource="#ExtractedDocument" />
  <rdfs:comment xml:lang="en">Document corresponding to a piece of writing
  on a particular subject and which purpose is to fully realize a particular
  objective in a relatively concise form e.g.: demonstrate
  something.</rdfs:comment>
  <rdfs:comment xml:lang="fr">Document correspondant un texte sur un sujet
  particulier et qui a pour but de realiser un objectif particulier sous une
  forme relativement concise, par exemple : demontrer quelque
  chose.</rdfs:comment>
  <rdfs:label xml:lang="en">article</rdfs:label>
  <rdfs:label xml:lang="fr">article</rdfs:label>
</rdfs:Class>
```

article - sense 4

- *GOLD* ontology on linguistics
 - <http://emeld.org/gold>
 - In this ontology the class label *article* corresponds to sense 4 ('part of speech '):

```
- <owl:Class rdf:ID="Article">  
  <rdfs:label xml:lang="en">article</rdfs:label>  
  <rdfs:comment>An article is a member of a small class of determiners that  
    identify a noun's definite or indefinite reference, and new or given  
    status (Crystal 1997:26; Mish et al. 1990:105).</rdfs:comment>  
  <rdfs:subClassOf rdf:resource="#Determiner" />  
</owl:Class>
```

Relevant Publications

- Paul Buitelaar, Thomas Eigner, Thierry Declerck *OntoSelect: A Dynamic Ontology Library with Support for Ontology Selection* Proc. of the Demo Session at the International Semantic Web Conference, Hiroshima, Japan, Nov. 2004
- Paul Buitelaar, Thomas Eigner *Evaluating Ontology Search* In: Proc. of the EON (Evaluation of Ontologies and Ontology-based tools) workshop at ISWC07 (International Semantic Web Conference) Busan, South-Korea, Nov. 2007
- Paul Buitelaar *Ontology-based Semantic Lexicons: Mapping between Terms and Object Descriptions* In: Chu-Ren Huang, Nicoletta Calzolari, Aldo Gangemi, Alessandro Oltramari, Alessandro Lenci, Laurent Prevot (eds.) *Ontologies and the Lexicon*. Cambridge Studies in Natural Language Processing, Cambridge University Press - to appear 2009

Acknowledgements

 SMARTWEB

