

Crowdsourcing
for a

Collaborative
Thesaurus

Objective

Provide a public collaborative thesaurus that ties into ontologies as available. Capture canonical terms, synonyms, term relations, term hierarchy and term metadata such as 'ambiguous term in Medline', provenance, authorship, links to ontologies, ...

Requirements

- Allow collaborative management of thesauri
 - with curated approved or group/wiki style contribution workflows
- Allow manual addition/editing of thesauri
- Import/export thesauri and synonym sets programmatically (in different formats - plugin architecture)

Meeting Objective

- Get feedback on how hard/easy this will be with semantic web technologies
- Suggestions for the technology stack
- Rough estimates on the resources required to build
- Who might be interested in participating
- Identify **expertise** required and potentially available for consulting

Possibilities

LexWiki

- caBIG project
- Semantic mediawiki thesaurus
- Not currently collaborative
- API???

[view source](#)



Category: BGT Autoimmune Reaction Adverse Event(B54911)

BGT_Autoimmune Reaction Adverse Event(B54911)

Lexical

Concept Code: B54911 (N)

Preferred Name: Autoimmune Reaction Adverse Event

Coding Scheme: [BGT \(08.11a\)](#)

Synonym: [Autoimmune Reaction Adverse Event \(PT\) \(Source: NCI\)](#) / [Autoimmune reaction \(PT\) \(Source: CTCAE\)](#)

URI: <http://ncicb.nci.nih.gov/xml/owl/EVS/BiomedGT.owl:B54911>

Properties

Semantic_Type: Finding

Associations

Parent: [Adverse_Event_Associated_with_Allergy_and_Immunology \(primitive\)](#)

[Form:LexWiki_BGT_Form](#)

Facts about BGT Autoimmune Reaction Adverse Event(B54911)

[RDF feed](#)

BGT Concept Type(P365)	N + 🔍
BGT Semantic Type(P106)	Finding + 🔍 ⓘ
BGT Synonym(P104)	Autoimmune Reaction Adverse Event + 🔍, and Autoimmune reaction + 🔍
DCTerms hasVersion(hasVersion)	BGT/Versions/08.11a + 🔍
Has default form	LexWiki BGT Form + 🔍
LexWiki Concept Code	B54911 + 🔍
LexWiki Preferred Name	Autoimmune Reaction Adverse Event + 🔍
LexWiki URI	http://ncicb.nci.nih.gov/xml/owl/EVS/BiomedGT.owl:B54911 + 🔍
SKOS inScheme(inScheme)	BGT + 🔍

Subcategories

There are 5 subcategories to this category.

B

- [\[•\] BGT CTCAE Grade 1 Autoimmune Reaction\(B54917\)](#)

search

navigation

- [Main Page](#)
- [Current events](#)
- [Recent changes](#)
- [TODO List](#)
- [Help](#)

terminologies

- [BiomedGT](#)
- [CTCAE Subject Terms](#)
- [NanoTech Domain](#)
- [CRCH Nutrition Terms](#)
- [Biospecimen](#)
- [CTCAE_Category](#)
- [CTCAE_SOC \(Draft 1.0\)](#)
- [NPO](#)

content search

- [Query ConceptCode](#)
- [Query Preferred Name](#)

workflow

- [Create / Update Package](#)
- [Bug Reporting](#)

toolbox

- [What links here](#)
- [Related changes](#)
- [Special pages](#)
- [Printable version](#)
- [Permanent link](#)

```

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  - <owl:Ontology rdf:about="">
    <smw:exportDate rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime">2009-04-14T13:56:23-04:00</smw:exportDate>
  </owl:Ontology>
  <!-- exported page data -->
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    <rdfs:isDefinedBy rdf:resource="http://biomedgt.nci.nih.gov/wiki/index.php/Special:ExportRDF/Category:BGT_Autoimmune_Reaction_Adverse_Event(B54911)"/>
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    <property:LexWiki_URI rdf:resource="http://ncicb.nci.nih.gov/xml/owl/EVS/BiomedGT.owl:B54911"/>
    <property:DCTerms_hasVersion rdf:resource="http://cbvapp-s1009.nci.nih.gov/wiki/index.php/Special:URIResolver/BGT-2FVersions-2F08.11a"/>
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    <rdfs:label>BGT CTCAE Grade 1 Autoimmune Reaction(B54917)</rdfs:label>
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```

Drupal

- can expose structured content as RDF (a la
Stephane Corlosquet's presentation)
- XML Taxonomy Import/Export (RDF)
- Built-in thesaurus support
- Strong ACL/groups

Ideas
Suggestions
Advice

Results from Meeting

- Check into Knewco's synonym usage for querying Pubmed
- Recommendation to follow up with LexWiki's development team
- Wordnet's database technology might hold a solution
- **Consensus - GUI layer of X on top of SKOS on top of RDF triple store most appropriate for given requirements**