PubMed to VIVO XSL Information

Overview

The definition of attributes from Pubmed and their transformation to elements in the VIVO ontology's schema. PubMed uses the Medline schema for storing citations. Medline is the Medical Literature Analysis and Retrival System Online (Medlars Online).

Development Documents

Medline/PubMed Resource Guide - http://www.nlm.nih.gov/bsd/pmresources.html#data

Medline/PubMed XML Data Elments - http://www.nlm.nih.gov/bsd/licensee/data_elements_doc.html

XSLT Tutorial - http://www.w3schools.com/xsl/xsl_languages.asp

Xpath Tutorial - http://www.w3schools.com/xpath/default.asp

XSL-FO Tutorial - http://www.w3schools.com/xslfo/default.asp

Medline to VIVO

See also the attached xsl file (last updated 2013-12-09) for mapping Scopus and MEDLINE bibliographic records to VIVO. Note that there are some minor differences between the mappings below and the attached file.

Element /Attribute	Name	Description	VIVO /Scoring	Equivalence in RDF	Appears In
E	Medline Citation	Top Level element in a MedlineCitationSet and contains one publication	V		RDF Element
				<rfd: Description></rfd: 	
A	Owner	Attribute of Medline Citation, the owner of the article is the party responsible for creating and validating the citation. There are only 8 possible owners	NLM, NASA, PIP, KIE, HSR, HMD, SIS, NOTNLM	N/A	(VD: not necessary unless needed for scoring)
A	Status	The status is the stage the citation is currently in there are seven values; Completed, In-Process, PubMed-not-Medline, In-Data-Review, Publisher, MEDLINE, OLDMEDLINE	S	<score: PubMedStatus></score: 	Main Citation (VD: not needed unless for scoring. We only want to pull in "completed")
Е	PMID	The Pubmed unique identifier	V	 <bibo:pmid></bibo:pmid>	Main Citation
E	DateCre ated	The date the processing of the citation began. It has three sub elements Year, Month, and Day	S	<score: DateCreated></score: 	Main Citation
E	DateCo mpleted	Date processing of the record ends	S	<score: DateCompleted></score: 	Main Citation

Е	DateRev ised	Identifies the date a change has been made. Only occurs in records that are MEDLINE, OLDMEDLINE, PubMed-not-MEDLINE	S	<score: DateRevised></score: 	Main Citation
E	Article	The wrapper around the non medline information about an article, like Authors and Title	N/A		
Α	PubMod el	This describes how the publication was distributed and is apart of Article. There exist four values; Print, Print-Electronic, Electronic, Electronic-Print	UnK		(VD: Change to N/A)
E	Journal	The envelope around the Journal information about an Article	V	<pre></pre>	

Е	Abstract Text	Actual Text of the abstract, not always available	V	 <bibo:abstract></bibo:abstract>	Main Citation
E	Copyrigh	Appears for articles where the publisher or author claim	N/A		
E	Copyrigh tInformat ion	copyright on the citation	IN/A		
Е	Affiliation	A string containing the afilliation information for the 1st Author	S	<pre><score: affiliation=""></score:></pre>	Main Citation
E	AuthorLi st	Wrapper around the list of authors for a citation	N/A		
E	Author	The Author of the Article in order as they appear in the publication sub elements include lastname, forename, suffix and initials	V	<rdf: description=""><rdf :type="" foaf:="" person=""></rdf></rdf:>	Individual Author
Е	LastName	The Surname of the author	V	<foaf:lastname></foaf:lastname>	Individual Author
E	ForeNa me	The remainder of the name excluding the suffix, this is often only the initials of an individual spaced out	S	<score:forename></score:forename>	Individual Author
E	Suffix	A persons suffix NOT honorific	S	<score:suffix></score:suffix>	Individual Author
Е	Initials	Often identical to the ForeName without spaces, this contains 2 initials for a person	S	<score:initials< td=""><td>Individual Author</td></score:initials<>	Individual Author
E	Language	Three letter description of the language the article was published in	UnK		(VD: N/A)
Е	Databank	Contains information pertaining to the registration of several types of data. this data includes: molecular sequence data, clinical trial numbers, gene expression/molecular abundance data, and PubChem. This field is being ignored for now.	N/A		
?	DOI	This is the DOI, as listed in PubMed.	?		(VD: use bibo:doi)
Е	GrantList	Wrapper for the list of grants related to the publication.	N/A		
E	Grant	Wrapper for the information about a single grant. Expect Inclusion of this data property in milestone 4.	UnK		Individual Grant (VD: N/A)
E	GrantID	The contract number of the grant	UnK		Individual Grant (VD: Is it possible to link a publication entity to a grant entity using the grant ID property "core: sponsorAwardId")
E	Acronym	The 2 letter acronym of the grant	UnK		Individual Grant (VD: N/A)
E	Agency	The agency that supplied the grant	UnK		Individual Grant (VD: N/A)
E	Country	Country of the grant agency	UnK		Individual Grant (VD: N/A)
Е	Publicati onTypeL ist	Wrapper containing a list of article types	N/A		
E	Publicati onType	V	see below for map of types to vivo classes	Main Citation	
E	Vernacul arTitle	The title of the publication in its originating language.	UnK		(VD: N/A)

E	ArticleD	the date the publisher made an electronic version of the article	UnK		(VD: N/A)
	ate	the country the esticle was published in	Link		(\/D; N/A)
E	Country	the country the article was published in The Medline Title Abbreviation for the Journal. The site	UnK		(VD: N/A)
_	Medline TA		Olik		(VD: N/A)
		http://www.nlm.nih.gov/pubs/factsheets/constructitle.html			
_		contains all of the rules used by NLM to abbreviate a title.			0.2
E	NImUniq ueID	the accession number for the journal the article was written in.	UnK		(VD: N/A)
E	ISSNLin king	the ISSN designated by the ISSN Network to enable co- location or linking among the different media versions of a continueing resource	UnK		(VD: N/A)
E	Chemica IList	The wrapper for a list of chemicals	UnK		(VD: N/A)
E	Chemical	the chemical being specified in the NLM record	UnK		(VD: use core:freetextKeyword)
E	Registry Number	a unique 5-9 digit number in a hyphenated format assigned by the Chemical Abstract Services.	UnK		(VD: N/A)
Е	Name of Substan ce	the name of the substance that the registry number identifies	UnK		(VD: use core:freetextKeyword)
E	Citation Subset	The subset that Medline records from certain sources or on certain topics were assigned.	UnK		(VD: N/A)
E	Comme ntsCorre ctions	This section details various citation notes, its unknown how this would be used by scoring and even more unknown if its needed in the main citation on VIVO.	UnK		(VD: N/A)
E	GeneSy mbolList	The wrapper for gene's listed in a publication	UnK		(VD: N/A)
Е	GeneSy mbol	The abbreviated form of the gene name as reported in the literature	UnK		(VD: N/A)
E	MeshHe adingList	Wrapper for the list of Mesh Terms associated with an article	N/A		
E	MeshHe ading	The individual Mesh Term for a publication, it has a descriptor and qualifier.	S	<rdf: description=""><rdf :type="" meshterm="" score:=""></rdf></rdf:>	Mesh Term
E	Descript orName	The main term, if its a central concept of the paper its marked as MajorTopic.	S	<score: Descriptor></score: 	Mesh Term
Е	Qaulifier Name	A sub heading of the Descriptor Name.	S	<score:qualifier< td=""><td>Mesh Term</td></score:qualifier<>	Mesh Term
E	Number OfRefer ences	Number of Bibliographic references in the article	N/A		(VD: N/A)
E	Personal NameSu bjectList	The names of people that appear in the article (such as biographical notes or obituaryies).	N/A		(VD: N/A)
Е	OtherID	ID's of other collaborating partners with NLM. This information is not used at the present time but may be added later.	UnK		(VD: N/A)
E	OtherAb stract	Alternative abstracts created by a collaborating partner or other entity	UnK		(VD: N/A)
E	Keyword List	A list of Keywords assigned by a collaborating data producer, or in the case of oldmedline before there was mesh by NLM itself.	UnK		(VD: use core:freetextKeyword)
E	SpaceFli ghtMissi on	If a citation was created by NASA it may come with information on the space flight mission that the research was conducted on.	UnK		(VD: N/A)

E	Investiga torList	For citations created by NASA originally, and other data partners later, the investigator is the PI on the grant that the research was produced. This is stored in the same format as the Author list	UnK	(VD: N/A)
E	General Note	Descriptive information provided by an NLM partner.	UnK	(VD: N/A)
E	DeleteCi tation	Most of the data is removed, but the stub is marked as deleted. We shouldn't be ingesting these publications.	N/A	

Publication Type Translation

Publication Characteristics (Publication Types) - Scope Notes

Abbreviations - DO NOT INCLUDE IN VIVO

Abstracts - DO NOT INCLUDE IN VIVO

Academic Dissertations - DO NOT INCLUDE IN VIVO

Account Books - DO NOT INCLUDE IN VIVO

Addresses - map to core:Conference Paper

Advertisements - DO NOT INCLUDE IN VIVO

Almanacs - DO NOT INCLUDE IN VIVO

Anecdotes - DO NOT INCLUDE IN VIVO

Animation - DO NOT INCLUDE IN VIVO

Annual Reports - DO NOT INCLUDE IN VIVO

Aphorisms and Proverbs - DO NOT INCLUDE IN VIVO

Architectural Drawings - DO NOT INCLUDE IN VIVO

Atlases - map to bibo:Reference Source

Bibliography - map to bibo:Academic Article

Biobibliography - map to bibo:Academic Article

Biography - map to bibo:Book

Book Illustrations - DO NOT INCLUDE IN VIVO

Book Reviews - map to core:Review

Bookplates - DO NOT INCLUDE IN VIVO

Broadsides - DO NOT INCLUDE IN VIVO

Caricatures - DO NOT INCLUDE IN VIVO

Cartoons - DO NOT INCLUDE IN VIVO

Case Reports – map to core:Case Study

Catalogs - DO NOT INCLUDE IN VIVO

Charts – map to bibo:Image

Chronology - DO NOT INCLUDE IN VIVO

Classical Article - map to bibo: Academic Article

Clinical Conference – map to bibo:Academic Article

Clinical Trial - map to bibo: Academic Article

Clinical Trial, Phase I - map to bibo: Academic Article

Clinical Trial, Phase II - map to bibo: Academic Article

Clinical Trial, Phase III - map to bibo: Academic Article

Clinical Trial, Phase IV - map to bibo:Academic Article

Collected Correspondence - map to bibo:Article and bibo:Book

Collected Works - map to bibo:Article and bibo:Book

Collections - DO NOT INCLUDE IN VIVO

Comment - map to bibo:Academic Article

Comparative Study - map to bibo:Academic Article

Congresses - map to bibo:Proceedings

Consensus Development Conference - map to bibo:Proceedings

Consensus Development Conference, NIH - map to bibo:Proceedings

Controlled Clinical Trial - map to bibo:Academic Article

Cookbooks - map to bibo:Book

Corrected and Republished Article - map to bibo: Academic Article

Database - map to core:Database

Dataset - map to vivo:Dataset

Diaries - map to bibo:Book

Dictionary - map to bibo:Reference Source

Directory - map to bibo:Reference Source

Documentaries and Factual Films - map to bibo:Film

Drawings - map to bibo:Image

Duplicate Publication - map to bibo:Article and bibo:Book

Editorial - map to core:Editorial Article

Encyclopedias - map to bibo:Reference Source

English Abstract - DO NOT INCLUDE IN VIVO

Ephemera - DO NOT INCLUDE IN VIVO

Essays - map to bibo:Article and bibo:Book

Eulogies - DO NOT INCLUDE IN VIVO

Evaluation Studies - map to bibo:Academic Article

Examination Questions - DO NOT INCLUDE IN VIVO

Exhibitions - DO NOT INCLUDE IN VIVO

Festschrift - map to bibo:Book

Fictional Works - map to bibo:Article and bibo:Book

Forms - DO NOT INCLUDE IN VIVO

Formularies - map to bibo:Book

Funeral Sermons - DO NOT INCLUDE IN VIVO

Government Publications - new publication class needed

Guidebooks - map to bibo:Reference Source

Guideline - map to bibo:Standard

Handbooks - map to bibo:Reference Source

Herbals - DO NOT INCLUDE IN VIVO

Historical Article - map to bibo:Article

Humor - DO NOT INCLUDE IN VIVO

In Vitro - DO NOT INCLUDE IN VIVO

Incunabula - map to bibo:Book

Indexes - map to bibo:Reference Source

Instruction - map to bibo: Audio Visual Document

Interactive Tutorial - need new pub class for multimedia

Interview - map to bibo:Book and bibo:Article

Introductory Journal Article - map to bibo:Article

Journal Article - map to bibo:Academic Article

Juvenile Literature - DO NOT INCLUDE IN VIVO

Laboratory Manuals - DO NOT INCLUDE IN VIVO

Lecture Notes - DO NOT INCLUDE IN VIVO

Lectures - need new pub class for speeches??

Legal Cases - map to bibo:Legal Case Document

Legislation - map to bibo:Legislation

Letter - DO NOT INCLUDE IN VIVO

Manuscripts - DO NOT INCLUDE IN VIVO

Maps - map to bibo:Map

Meeting Abstracts - map to bibo:Conference Proceedings

Meta-Analysis - map to bibo:Academic Article

Monograph - DO NOT INCLUDE IN VIVO

Multicenter Study - map to bibo:Academic Article

News - map to bibo:Article

Newspaper Article - map to bibo:Article

Nurses' Instruction - DO NOT INCLUDE IN VIVO

Observational Study - map to bibo:Academic Article

Outlines - DO NOT INCLUDE IN VIVO

Overall - DO NOT INCLUDE IN VIVO

Patents - map to bibo:Patent

Patient Education Handout - map to bibo:Document

Periodical Index - map to bibo:Reference Source

Periodicals - map to bibo:Periodical

Personal Narratives - DO NOT INCLUDE IN VIVO

Pharmacopoeias – map to bibo:Reference Source

Phrases - DO NOT INCLUDE IN VIVO

Pictorial Works - map to bibo:Article and bibo:Book

Poetry - DO NOT INCLUDE IN VIVO

Popular Works - DO NOT INCLUDE IN VIVO

Portraits - map to bibo:Image vivo:Article

Postcards - DO NOT INCLUDE IN VIVO

Posters - DO NOT INCLUDE IN VIVO

Practice Guideline - map to bibo:Standard

Pragmatic Clinical Trial - map to bibo:Academic Article

Price Lists - DO NOT INCLUDE IN VIVO

Problems and Exercises - DO NOT INCLUDE IN VIVO

Programmed Instruction - DO NOT INCLUDE IN VIVO

Programs - DO NOT INCLUDE IN VIVO

Prospectuses - DO NOT INCLUDE IN VIVO

Publication Components - DO NOT INCLUDE IN VIVO

Publication Formats - DO NOT INCLUDE IN VIVO

Published Erratum - DO NOT INCLUDE IN VIVO

Randomized Controlled Trial - map to bibo: Academic Article

Research Support, American Recovery and Reinvestment Act - DO NOT INCLUDE IN VIVO

Research Support, N.I.H., Extramural - DO NOT INCLUDE IN VIVO

Research Support, N.I.H., Intramural - DO NOT INCLUDE IN VIVO

Research Support, Non-U.S. Gov't - DO NOT INCLUDE IN VIVO

Research Support, U.S. Gov't, Non-P.H.S. - DO NOT INCLUDE IN VIVO

Research Support, U.S. Gov't, P.H.S. - DO NOT INCLUDE IN VIVO

Resource Guides - DO NOT INCLUDE IN VIVO

Retracted Publication - DO NOT INCLUDE IN VIVO

Retraction of Publication - DO NOT INCLUDE IN VIVO

Review - map to core:Review and bibo:Book

Scientific Integrity Review - DO NOT INCLUDE IN VIVO

Sermons - DO NOT INCLUDE IN VIVO

Statistics - map to bibo:Book and bibo:Article

Study Characteristics - map to bibo:Article

Support of Research - DO NOT INCLUDE IN VIVO

Tables - DO NOT INCLUDE IN VIVO

Technical Report – map to bibo:Report

Terminology - DO NOT INCLUDE IN VIVO

Textbooks – map to bibo:Book

Twin Study - map to bibo:Academic Article

Unedited Footage - DO NOT INCLUDE IN VIVO

Union Lists - DO NOT INCLUDE IN VIVO

Unpublished Works - DO NOT INCLUDE IN VIVO

Validation Studies - map to bibo:Academic Article

Webcasts - need new pub class for multimedia