

Portland PID Workshop, 6th May 2019

Connecting persistent identifiers in Wikidata

By Simon Cobb



Wikidata is

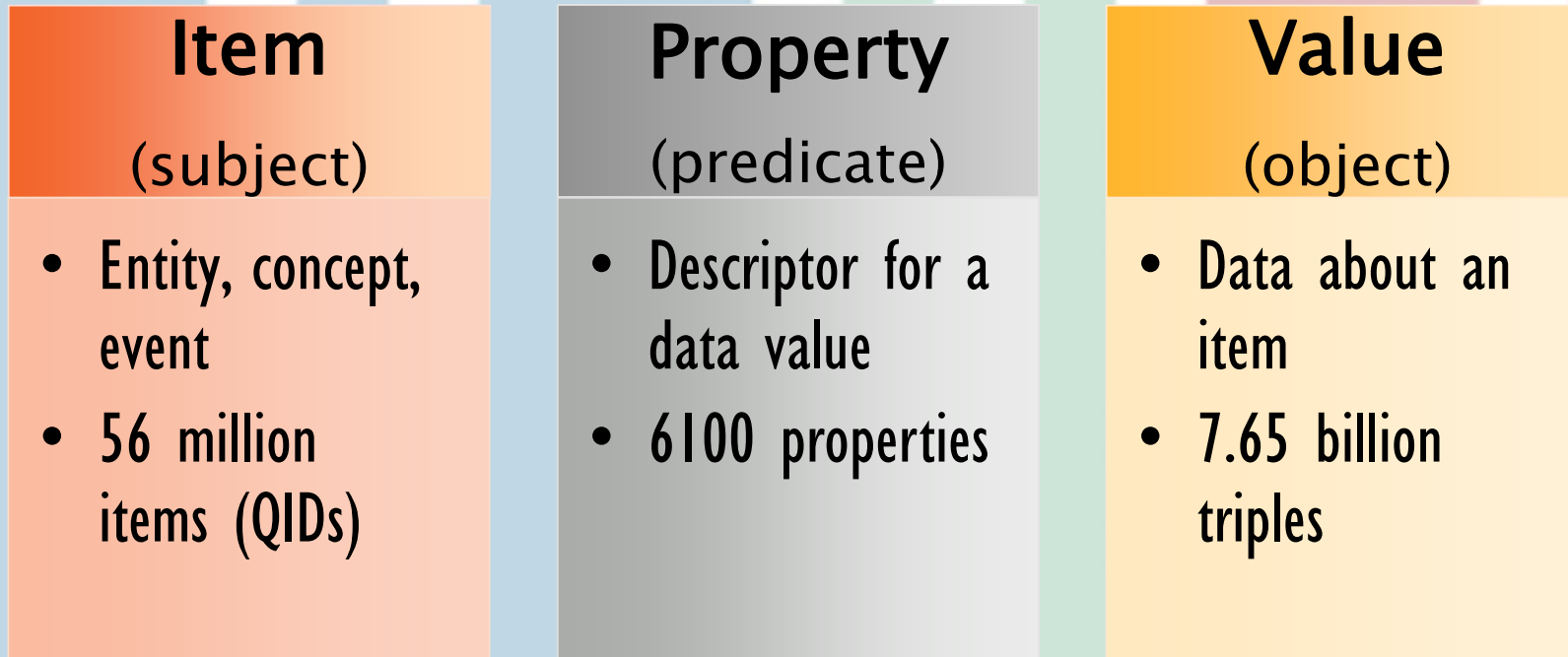
a free, collaborative, multilingual,
secondary database, collecting
structured data for reuse in
Wikipedia, the other Wikimedia
Foundation projects, and beyond

Wikidata is

- **Free**: released under the Creative Commons Public Domain Dedication 1.0.
- **Collaborative**: data is created and maintained by Wikidata editors, who decide on the rules of content creation and management.
- **Multilingual**: Editing, consuming, browsing, and reusing the data is fully multilingual. Data entered in any language is immediately available in all other languages.
- **A secondary database**: sources and connections to other databases are recorded to support verifiability.
- **Structured data**: machine readable, easy to understand and reuse.
- **Reuse**: Wikimedia projects get dynamic content from a centralised repository and Wikidata is available to everyone through an API.

Linked open data structure

Every piece of information is stored as a triple:

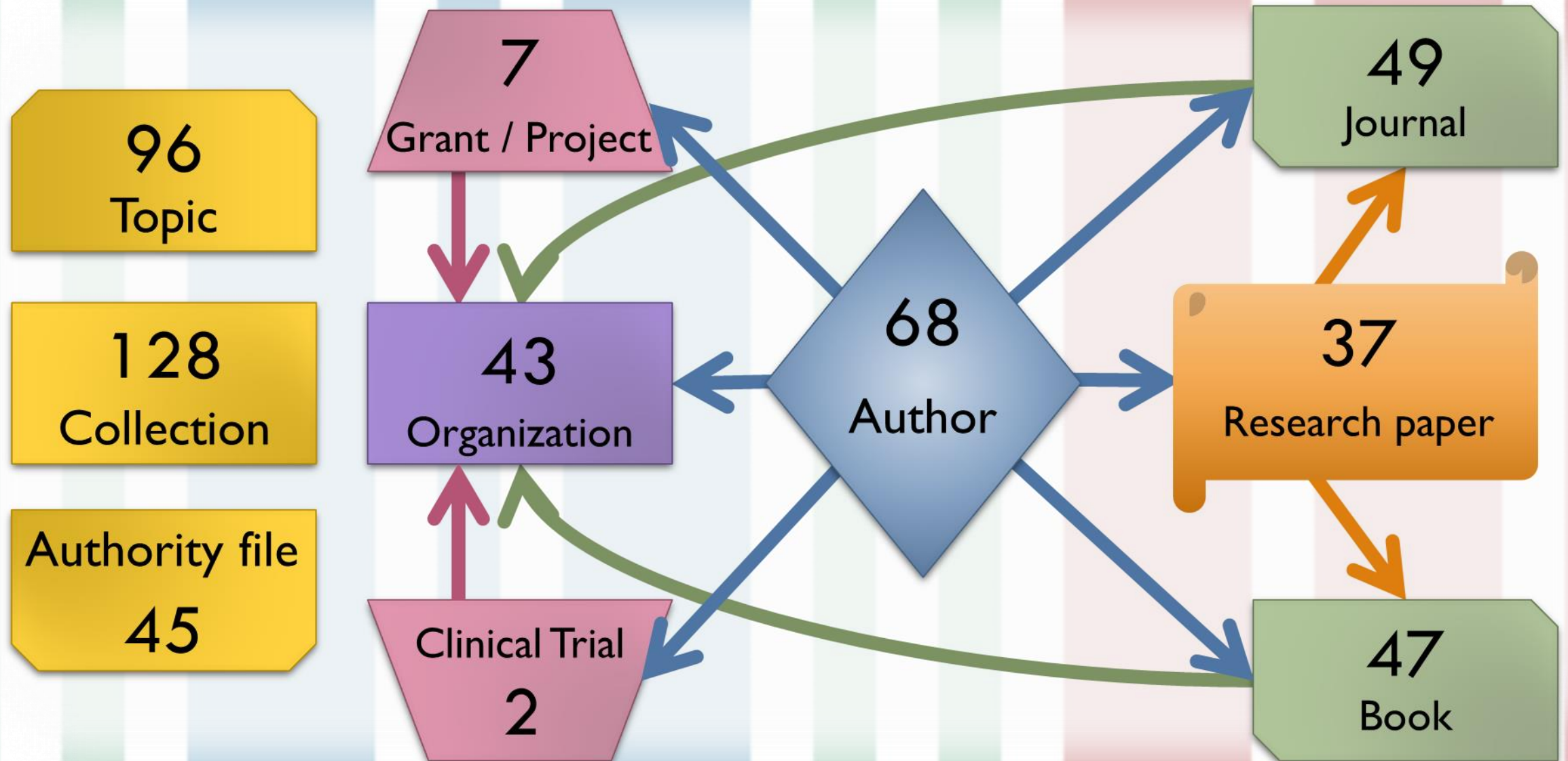


PNAS
(Q1146531)

Instance of
(P31)

scientific journal
(Q5633421)

Wikidata Identifier Landscape



Does Habitual Physical Activity Increase the Sensitivity of the Appetite Control System? A Systematic Review (Q28070199)

<https://www.wikidata.org/wiki/Q28070199>

scientific article in December 2016


▼ In more languages Configure

Language	Label	Description
English	Does Habitual Physical Activity Increase the Sensitivity of the Appetite Control System? A Systematic Review	scientific article in December 2016
French	No label defined	article scientifique (publié 2016)
German	No label defined	wissenschaftlicher Artikel
Scots	No label defined	No description defined

All entered languages

Statements

instance of	 scholarly article
	▶ 1 reference

title	 Does Habitual Physical Activity Increase the Sensitivity of the Appetite Control System? A Systematic Review (English)
	▶ 1 reference

Identifiers

DOI	(P356)	• 10.1007/S40279-016-0518-9
PubMed ID	(P698)	• 27002623
PMCID	(P932)	• 5097075
Scopus EID	(P1154)	• 2-s2.0-84961798809
OpenCitations ID	(P3181)	• 5106045
Publons ID	(P3431)	• 19578720
Semantic Scholar ID	(P4011)	• 70a14f3b910de9f968f566b0d7ae428903549aca
Google Scholar ID	(P4028)	• 13860729970775179291
Altmetric ID	(P5530)	• 6259582
ResearchGate ID	(P5875)	• 299385698
Dimensions ID	(P6179)	• 1013915514
Microsoft Academic ID	(P6366)	• 2304324407
CORE ID	(P6409)	• 81760695
exact match	(P2888)	• https://scigraph.springernature.com/pub.10.1007/s40279-016-0518-9

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37 ORDER BY ?authorOrder

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<https://tinyurl.com/yxo8xwa7>

5:08:36 AM
GMT+1, May 4,
2019

Data updated
2 minutes ago



4 results in 1180 ms </> Code Download Link

authorOrder	paperLabel	paperIDs	authorLabel	orcid	authorIDs	works	employerLabel	isni	educationLabel	ringgold	educationIDs	thesisLabel	ethos	thesisIDs	supervisorLabel	roleLabel
1	Does Habitual Physical Activity Increase the Sensitivity of the Appetite Control System? A Systematic Review	13	Kristine Beaulieu	0000-0001-8926-6953	10	11	University of Leeds	0000000419368403	University of Leeds	4468	39	The influence of physical activity level on the sensitivity of the appetite control system	uk.bl.ethos.739788	3	Graham Finlayson	first doctoral advisor
2	Does Habitual Physical Activity Increase the Sensitivity of the Appetite Control System? A Systematic Review	13	Mark Hopkins	0000-0002-7655-0215	7	36	University of Leeds	0000000419368403	University of Leeds	4468	39	Influence of body composition, metabolism and physical activity on mechanisms controlling energy intake	uk.bl.ethos.658552	1		
3	Does Habitual Physical Activity Increase the Sensitivity of the Appetite Control System? A Systematic Review	13	John Edward Blundell	0000-0002-7085-9596	23	298	University of Leeds	0000000419368403	University of London	3163	31					
4	Does Habitual Physical Activity Increase the Sensitivity of the Appetite Control System? A Systematic Review	13	Graham Finlayson	0000-0002-5620-2256	12	119	University of Leeds	0000000419368403	University of Leeds	4468	39	Liking, wanting and appetite control : a novel approach to the measurement of food reward in humans	uk.bl.ethos.438488	1		

Compare data

<https://w.wiki/3cE>

Wikidata Query Service Examples Help More tools English

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4   ?item wdt:P356 "10.1007/S40279-016-0518-9" ;
5     wikibase:identifiers ?paperIDs ; p:P50 ?author_statement .
6   ?author_statement ps:P50 ?author .
7   ?author wdt:P4012 ?SemanticScholarID; wdt:P496 ?orcid .
8   OPTIONAL { ?work wdt:P50 ?author . }
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11  BIND(REPLACE("https://pub.orcid.org/v2.1/XYZ/works","XYZ",?orcid ) AS ?orcidAPI).
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13  SERVICE wikibase:label { bd:serviceParam wikibase:language "[AUTO_LANGUAGE],en". }
14 }
15 GROUP BY ?author ?authorLabel ?works ?orcid ?orcidAPI ?SemanticScholarID ?SemanticScholarAPI
16 ORDER BY DESC(?works)
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4 results in 266 ms Code Download Link

author	authorLabel	works	orcid	orcidAPI	SemanticScholarID	SemanticScholarAPI
wd:Q59903179	John Edward Blundell	298	0000-0002-7085-9596	https://pub.orcid.org/v2.1/0000-0002-7085-9596/works	2495405	http://api.semanticscholar.org/v1/author/2495405
wd:Q53480104	Graham Finlayson	119	0000-0002-5620-2256	https://pub.orcid.org/v2.1/0000-0002-5620-2256/works	4982617	http://api.semanticscholar.org/v1/author/4982617
wd:Q43940276	Mark Hopkins	36	0000-0002-7655-0215	https://pub.orcid.org/v2.1/0000-0002-7655-0215/works	1731906	http://api.semanticscholar.org/v1/author/1731906
wd:Q56426560	Kristine Beaulieu	11	0000-0001-8926-6953	https://pub.orcid.org/v2.1/0000-0001-8926-6953/works	5931011	http://api.semanticscholar.org/v1/author/5931011

Researcher identifiers

P5715	Academia.edu profile URL	P2037	GitHub username	P6677	OpenEdition Books author ID
P2080	AcademiaNet ID	P2671	Google Knowledge Graph ID	P496	ORCID iD
P864	ACM Digital Library author ID	P1960	Google Scholar ID	P3708	PhDTree person ID
P5463	AE member ID	P6594	Guggenheim fellows ID	P3233	PhilPeople profile
P5776	Arnet Miner author ID	P4450	HAL author ID	P3829	Publons author ID
P5361	BNB person ID	P5553	IDIH ID	P2428	RePEc Short-ID
P2607	BookBrainz creator ID	P3191	IMIS person ID	P1053	ResearcherID
P4369	Cairn author ID	P2930	INSPIRE-HEP author ID	P6023	ResearchGate contributor ID
P4787	CiNii author ID (articles)	P4491	Isidore ID	P2038	ResearchGate profile ID
P5552	CNRS ID France	P5320	IUF member ID	P5029	Researchmap ID
P5443	Collège de France professor ID	P3237	KU Leuven person ID	P6304	researchportal.helsinki.fi profile ID
P3900	CONICET person ID	P5639	LARB contributor ID	P1153	Scopus Author ID
P2456	DBLP ID	P6634	LinkedIn personal profile ID	P4012	Semantic Scholar author ID
P3946	Dictionary Grierson ID	P2798	Loop ID	P3987	SHARE Catalogue author ID
P6180	Dimensions author ID	P5502	LRB contributor ID	P6329	SHARE-VDE author ID
P6441	Douban author ID	P3835	Mendeley person ID	P6556	SICRIS researcher ID
P4890	EPHE ID	P6366	Microsoft Academic ID	P3747	SSRN author ID
P2953	Estonian Research Portal ID	P4955	MR Author ID	P4285	Theses.fr person ID
P4598	FAPESP researcher ID	P5380	National Academy of Sciences ID	P6174	TWAS Fellow ID
P2070	Fellow of the Royal Society ID	P5640	New Zealand Book Council ID	P2002	Twitter username
P4232	Figshare author ID	P3188	Nobel prize ID	P3159	UGentMemorialis ID
P646	Freebase ID	P5419	NYRB contributor ID	P2006	ZooBank author ID
P4872	GEPRIS person ID	P4629	Online Books Page author ID		

Research paper identifiers

P819	ADS bibcode	P5005	National Thesis Number (France)
P5530	Altmetric ID	P4596	NIOSH Publication Number
P818	arXiv eprint identifier	P243	OCLC
P3951	BioRxiv ID	P3181	OpenCitations ID
P5315	BioStor work ID	P3894	OSTI article ID
P2409	CiNii article ID	P3732	PhilPapers record
P3784	CiteSeerX article ID	P932	PMCID
P6409	CORE ID	P6572	ProQuest document ID
P1610	Dialnet article	P3431	Publons Publication ID
P6179	Dimensions Publication ID	P698	PubMed ID
P356	DOI	P5875	ResearchGate publication ID
P4536	EThOS thesis ID (UK)	P6661	Rxivist preprint ID
P668	GeneReviews ID	P1154	Scopus EID
P5214	GONIAAT paper ID	P4011	Semantic Scholar paper ID
P4028	Google Scholar paper ID	P893	Social Science Research Network ID
P6480	IEEEExplore document ID	P894	zbMATH mathematics
P888	JSTOR article ID	P4901	Zenodo ID
P889	Mathematical Reviews identifier	P2007	ZooBank publication ID
P6366	Microsoft Academic ID		

Journal identifiers

P3333	ACM Digital Library event ID	P2671	Google Knowledge Graph ID	P4741	OpenEdition journal ID
P6183	African Journals Online journal ID	P4754	Harvard botanical journal ID	P2733	Persée journal ID
P4327	BHL bibliography ID	P2008	IPNI publication ID	P3236	PhilPapers publication ID
P1300	bibcode	P1160	ISO 4 abbreviation	P3131	Redalyc journal ID
P6143	BioOne journal ID	P236	ISSN	P2761	Research Papers in Economics Series hdl
P2768	BNE journal ID (Spanish)	P1230	JSTOR journal ID	P6189	Sabinet journal ID
P4569	BPH journal ID	P1277	JUFO ID	P5966	SAGE journal ID
P4700	Cairn journal ID (France)	P3127	Latindex ID	P1156	Scopus Source ID
P1250	Danish BFI SNO/CNO	P5867	Mathematical Reviews journal ID	P5983	Springer journal ID
P1609	Dialnet journal (Spanish)	P6366	Microsoft Academic ID	P4520	SUNCAT ID
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P5115	DOAJ ID	P5559	MUSE journal ID	P4616	UniProt journal ID
P5963	Elsevier journal ID	P1055	NLM Unique ID	P5127	WikiCFP conference series ID
P1058	ERA Journal ID	P1272	Norway Import Service and Registration Authority periodical ID	P1161	Z39.5 abbreviation
P3434	ERIH PLUS ID	P1270	Norwegian Register journal ID	P1042	ZDB ID
P4722	Érudit journal ID	P3181	OpenCitations ID	P2007	ZooBank publication ID
P646	Freebase ID				

Book identifiers

P5749	Amazon Standard Id Number	P3004	Galiciana work ID (Spain)		(Portuguese)
P2879	Argentine Nat. Congress Library ID	P4258	Gallica ID (France)	P243	OCLC
P3631	Babelio work ID (France)	P2969	Goodreads book ID	P5331	OCLC work ID
P4327	BHL bibliography ID	P675	Google Books ID	P6676	OpenEdition book Id (France)
P6211	BIBSYS work ID (Norway)	P2671	Google Knowledge Graph ID	P648	Open Library ID
P1143	BN editions (Argentina)	P4181	GujLit Book ID (Gujarati)	P2034	Project Gutenberg ebook ID
P5199	British Library system number	P1844	HathiTrust ID	P1575	RISS catalog (South Korea & Japan)
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P3939	ESTC citation number	P1054	NDL ID (Japan – Nat. Diet Library)		
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Organization identifiers

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P6392	AISHE code (India)	P3035	ISBN publisher prefix
P1870	ARK Name Assigning Authority No.	P4264	LinkedIn company ID
P5242	ARWU university ID (SARWU)	P6366	Microsoft Academic ID
P4090	Biodiversity Repository ID	P1271	Norway Database for Stats on Higher education publisher ID
P2189	BiblioNet publisher ID (Greece)	P1275	Norway Import Service and Reg. Authority publisher code
P3153	Crossref funder ID	P1320	OpenCorporates ID
P2253	DfE URN (UK)	P5584	QS World University ID
P4840	Directory of Czech publishers ID	P5874	re3data repository ID
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P2463	elibrary.ru organisation ID (Russia)	P6617	SHERPA/RoMEO publisher ID
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Grant, project & trial identifiers

Grant / Project

P4550 CNRS research group ID
P3400 CORDIS Project ID
P5755 EU project RCN
P6536 Gateway to Research Project ID
P4870 GEPRIS project ID
P4203 ROARMAP ID
P4636 Sherpa Juliet ID

Clinical trial

P3098 ClinicalTrials.gov ID
P6220 OpenTrials ID

Authority control identifiers

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P950	BNE ID	P3348	National Library of Greece ID	P906	SELIBR ID
P268	BnF ID	P1946	National Libr. of Ireland authority ID	P6702	Shanghai Library person ID
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P3633	British Museum place ID	P5034	National Library of Korea Identifier	P1795	Smithsonian American Art Museum person/institution ID
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P1670	Canadiana Authorities ID	P349	NDL Auth ID	P214	VIAF
P1273	CANTIC-ID	P691	NKCR AUT ID		
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P271	CiNii author ID (books)	P1695	NLP ID		
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Topic identifiers

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P5922	ANZSRC FoR ID	P4732	IUPAC GoldBook ID	P639	RefSeq RNA ID
P5198	ASC Leiden Thesaurus ID	P3827	JSTOR topic ID	P3590	Relations Ontology ID
P508	BNCF Thesaurus ID	P920	LEM ID	P2106	RXNO Ontology
P5501	Brenda Tissue Ontology ID	P3064	LepIndex ID	P4662	SAN ID
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P2158	Cell Line Ontology ID	P4801	LC and MARC vocabularies ID	P4537	Spider Ontology ID
P683	ChEBI ID	P4338	LOINC ID	P3123	Stanford Encyc. of Philosophy ID
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P699	Disease Ontology ID	P1738	Merck Index monograph	P3982	TA98 Latin term
P4272	DPLA subject ID	P3378	Merck Index reaction ID	P3186	TAXREF ID
P4746	Elhuyar ZTH ID	P672	MeSH Code	P5398	TDKIV term ID
P3859	Environment Ontology ID	P6694	MESH concept ID	P1323	Terminologia Anatomica 98 ID
P3832	Europeana Fashion Vocabulary ID	P486	MeSH Descriptor ID	P1693	Terminologia Embryologica
P3811	Evidence & Conclusion Ontology ID	P6680	MESH Term ID	P1694	Terminologia Histologica
P4308	FOIH value types ID	P3763	MIMO instrument ID	P1667	TGN ID
P842	Fossilworks ID	P2871	miRBase mature miRNA ID	P4980	French architectural Thesaurus ID
P686	Gene Ontology ID	P2870	miRBase pre-miRNA ID	P5160	Thesaurus For Graphic Materials ID
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P846	Global Biodiversity Info. Facility ID	P5270	MonDO ID	P4288	UK National Fruit Collection ID
P6045	Global Raptor Information Network ID	P2004	NALT ID	P4527	UK Parliament thesaurus ID
P3885	History of Modern Biomedicine ID	P3240	NBN System Key	P2892	UMLS CUI
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P3841	Human Phenotype Ontology ID	P6289	ODNR Division of Wildlife ID	P4466	Unified Astronomy Thesaurus ID
P6382	Hungarian public thesaurus ID	P3847	Open Library subject ID	P1928	Vaccine Ontology ID
P1076	ICTV virus ID	P4212	PACTOLS thesaurus ID	P1925	VIOLIN ID
P234	InChI	P4813	PARES ID	P3350	WHO int. non-proprietary names ID
P4433	Indian Foundation for Butterflies ID	P3235	PhilPapers topic	P3328	wurvoc.org measure
P863	InPhO ID	P4355	PROSITE documentation ID	P4495	Xenopus Anatomical Ontology ID
P3099	Internet Bird Collection species ID	P4926	PRotein Ontology ID	P2347	YSO ID

Collection identifiers (part 1)

P6334	Agence photo RMN package ID	P4860	BMI work ID	P3386	French Sculpture Census work ID
P2344	AGORHA work ID	P5691	BND ID	P4701	Google Arts & Culture asset ID
P4692	American Art Collaborative object ID	P5499	Boijmans work ID	P1577	Gregory-Aland-Number
P3426	ArbetSam ID	P6004	Brasiliana Iconográfica ID	P2282	Groeningemuseum work PID
P4764	Arcade artwork ID	P4740	Brooklyn Museum artwork ID	P3675	Hans Christian Andersen Centre ID
P3642	ARCHON code	P4899	Brooklyn Museum Exhibition ID	P1844	HathiTrust ID
P5888	Arkivportalen archive ID	P3976	BVMC work ID	P6287	ICCD ID - CF form
P6576	Art Fund artwork ID	P5229	Carnegie Hall work ID	P6288	ICCD ID - CG form
P4564	Art Museum of Estonia artwork ID	P4686	Carnegie Museum of Art ID	P6286	ICCD ID - S form
P3791	Art Renewal Center artist ID	P3702	Cat. of Illuminated Manuscripts ID	P4401	ID Museus Brazil
P1751	Art UK collection ID	P2474	Cuneiform Dig. Lib. Initiative ID	P6356	IHOI work ID
P4610	ARTIC artwork ID	P3998	Censo-Guía archive ID	P5099	Il mondo dei doppiatori ID
P6610	Ashmolean museum ID	P6633	Cini Foundation ID	P5764	IMA museum ID
P4146	Athenaeum museum ID	P4660	CPDOC ID	P4761	Images d'Art artwork ID
P1212	Atlas ID	P5783	Cranach Digital Archive artwork ID	P4674	Indianapolis Museum of Art ID
P5302	B.R.A.H.M.S. work ID	P4517	ctext work ID	P5223	Information Center for Israeli Art ID
P3293	BALaT object ID	P2185	DLI ID	P724	Internet Archive ID
P1823	BAnQ work ID	P5265	Dordrechts Museum artwork ID	P1219	Internet Broadway Database show ID
P4709	Barnes Foundation ID	P760	DPLA ID	P3467	Inventario Sculture - Polo Museale Fiorentino ID
P4178	Beazley Archive Pottery Database ID	P4627	EK number		
P2683	Bekker Number	P727	Europeana ID		
P5823	Belvedere object ID	P3462	FAMA work ID		
P2703	BFI National Archive work ID	P3504	Florentine Inventario Palatina art ID		
P6535	BHL part ID	P2242	Florentine musea catalogue ID		

Collection identifiers (part 2)

P4814	Inventories of American Painting and Sculpture control number	P4739	Musée des Augustins artwork ID	P4553	RA Collections ID
P2582	J. Paul Getty Museum object ID	P4659	Musée d'Orsay artwork ID	P6625	Salvador Dali Museum ID
P6489	Joan Miró Online Image Bank ID	P6358	Musée Picasso artwork ID	P4380	Sandrart.net artwork ID
P4905	KMSKA work PID	P6565	Musenor artwork ID	P4936	SFMOMA artist ID
P2108	Kunstindeks Danmark artwork ID	P539	Museofile ID	P4704	Smithsonian American Art Museum ID
P4611	LACMA ID	P6310	Muséosphère work ID	P3430	SNAC Ark ID
P3855	LombardiaBeniCulturali artwork ID	P4625	Museum of Fine Arts, Boston object ID	P4737	Solomon R. Guggenheim Foundation ID
P6374	MAMVP artwork ID	P4673	Museum of Fine Arts, Houston object ID	P6155	Sotheby's Museum Network ID
P4752	Manus Online ID	P2014	Museum of Modern Art work ID	P4819	Swedish portrait archive
P3768	Medieval Libraries of Great Britain ID	P6006	Museum Universe Data File ID	P6138	SWH Release ID
P5407	MHK object ID	P5210	National Gallery of Armenia work ID	P3889	Swiss Federal Archives ID
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P4712	Minneapolis Institute of Art artwork ID	P4684	National Gallery of Victoria artwork ID	P3634	The Met object ID
P6355	MNAM artwork ID	P4257	National Museums of Japan e-museum ID	P1242	Theatricalia play ID
P5268	MNAV work ID	P6152	National Portrait Gallery (USA) object ID	P5050	UMAC ID
P5495	Mormon Literature & Creative Arts ID	P4373	National Trust Collections ID	P3069	UN document symbol
P2511	MSK Gent work PID	P2539	Nationalmuseum Sweden artwork ID	P3929	V&A art work ID
P5656	MuIS collection ID	P2475	NAVA ID	P4713	Walters Art Museum ID
P4525	MuIS object ID	P1474	Nupill Literatura Digital-Document ID	P5269	Web umenia work ID
P4313	musée de Bretagne collections ID	P6246	Paris Musées work ID	P4738	Yale Center for British Art artwork ID
		P4643	Philadelphia Museum of Art ID		

SPARQL Endpoints

British Museum	http://collection.britishmuseum.org/sparql
European Bioinformatics Institute	https://www.ebi.ac.uk/rdf/services/sparql
Europeana	http://sparql.europeana.eu/
Getty Vocabularies	http://vocab.getty.edu/sparql.json
Linked Geodata	http://linkedgeodata.org/sparql
Linked Open Vocabularies	http://lov.okfn.org/dataset/lov/sparql
MeSH SPARQL endpoint	http://id.nlm.nih.gov/mesh/sparql
NIOD Institute for War, Holocaust and Genocide Studies	https://data.niod.nl/PoolParty/sparql/WO2_Thesaurus
Nobel Prize Linked Data	http://data.nobelprize.org/sparql
OBO/OntoBee	http://sparql.hegroup.org/sparql/
OpenCitations	http://opencitations.net/sparql
ScienceSource project by ContentMine	http://sciencesource-query.wmflabs.org/proxy/wdqs/bigdata/namespace/wdq/sparql
Smithsonian American Art Museum	http://edan.si.edu/saam/sparql
STW Thesaurus for Economics	http://zbw.eu/beta/sparql/stw/query
Universal Protein Resource	https://sparql.uniprot.org/sparql
Wikipathways	http://sparql.wikipathways.org/
Yale Center for British Art	http://collection.britishart.yale.edu/openrdf-sesame/repositories/ycba

https://www.mediawiki.org/wiki/Wikidata_Query_Service/User_Manual/SPARQL_Federation_endpoints