

A brief introduction to



+ { } wikicite

Dario Taraborelli • Wikimedia Foundation

@readermeter



WIKIDATA

Infoboxes

Marie Skłodowska Curie	
 A black and white portrait photograph of Marie Skłodowska Curie, showing her from the chest up. She has short, wavy hair and is wearing a dark jacket over a patterned blouse.	
	c. 1920
Born	Maria Salomea Skłodowska 7 November 1867 Warsaw, Kingdom of Poland, then part of Russian Empire ^[1]
Died	4 July 1934 (aged 66) Passy, Haute-Savoie, France
Cause of death	Aplastic anemia from exposure to radiation
Residence	Poland, France
Citizenship	Poland (by birth) France (by marriage)
Alma mater	University of Paris ESPCI ^[2]

Infoboxes

Marie Skłodowska Curie	
	c. 1920
Born	Maria Salomea Skłodowska 7 November 1867 Warsaw, Kingdom of Poland, then part of Russian Empire ^[1]
Died	4 July 1934 (aged 66) Passy, Haute-Savoie, France
Cause of death	Aplastic anemia from exposure to radiation
Residence	Poland, France
Citizenship	Poland (by birth) France (by marriage)
Alma mater	University of Paris ESPCI ^[2]

Infoboxes

	居里照, 约1920年摄
出生	玛丽亚·萨洛美娅·斯克沃多夫斯卡 Maria Salomea Skłodowska 1867年11月7日 俄罗斯帝国波兰王国华沙 ^[1]
逝世	1934年7月4日 (66岁) 法国巴黎
死因	再生不良性贫血
公民权	波兰 (出生) 法国 (成婚)
母校	巴黎大学 巴黎高等物理化工学院
知名于	放射性 钋 镭
配偶	皮埃尔·居里 (1895年成婚)
儿女	伊雷娜·约里奥-居里 

معلومات شخصية	
الاسم عند الولادة	Maria Salomea Skłodowska
الميلاد	7 نوفمبر 1867 وارسو، قشتالة وليون،  روسيا (في بولندا حالياً)
الوفاة	4 يوليو 1934 (66 سنة) باريس،  فرنسا
سبب الوفاة	فقر الدم الالاتسيجي ^[1]
مكان الدفن	 مقبرة العظام
الإقامة	باريس
مواطنة	روسية (بموجب تجعيم بولندا للإمبراطورية الروسية)
الجنسية	بولندية، ثم فرنسية فيما بعد
العرق	بولنديون
ملحة	
الديانة	
عضوة في	الأكademie الملكية السويدية للعلوم، والأكاديمية الوطنية للطب
الزوج	بيار كوري (1895-1895)
أبناء	إيرين جوليوكوري، وإيف كوري

জন্ম	নডেওৰ ৭ ১৮৬৭
মৃত্যু	ওয়ারশ, কংগ্রেস পোল্যান্ড জুলাই ৮, ১৯৩৪ (৬৬ বছর) Sancellemoz , ফ্রান্স
জাতীয়তা	পোলীয়, ফ্রান্স
কর্মক্ষেত্র	পদার্থবিজ্ঞান এবং রসায়ন
প্রতিষ্ঠান	সরবোন
প্রাক্তন ছাত্র	সরবোন এবং ই-এসপিসিআই
পিএইচডি	অঁরি বেকেরেল
উপদেষ্টা	অঁদ্রে-লাই দ্যবিয়ের্ন
পিএইচডি	Marguerite Catherine Perey
ছাত্রবা	পরিচিতির কারণ
পরিচিতির কারণ	তেজক্ষিপ্ততা
উল্লেখযোগ্য	 পদার্থবিজ্ঞানে নোবেল পুরস্কার (১৯০৩)
পুরস্কার	 রসায়নে নোবেল পুরস্কার (১৯১১)



Item Discussion

Read

View history

Search Wikidata

Marie Curie (Q7186)

French-Polish physicist and chemist

Maria Salomea Skłodowska | Maria Skłodowska-Curie | M. Curie

▶ In more languages

Statements

instance of



human

edit

▶ 1 reference

+ add value

part of



Pierre and Marie Curie

edit

▶ 1 reference

+ add value

Main page

Community portal

Project chat

Create a new item

Recent changes

Random item

Query Service

Nearby

Help

Donate

Tools

What links here

Related changes

Special pages

Permanent link

Page information

Concept URI

Cite this page

Wikidata is to data what Wikipedia is to text

- All data CC0
- Anybody can contribute
- Covers all domains of knowledge
- Fully version controlled and collaborative
- Integrated with the semantic web via RDF / open APIs
- High performance query engine (SPARQL)
- Stable. Not tied to short-term funding cycles
- Actively developed
- Active community. Fastest growing Wikimedia project



Multilingual labels and descriptions

Language	Label	Description	Also known as	✎
Spanish	Marie Curie	química y física polaca naturalizada francesa	Maria Skłodowska-Curie Maria Salomea Skłodowska Marie Skłodowska-Curie Madame Curie Mme Curie Marie Curie-Skłodowska Madame Pierre Curie M. Curie	
Traditional Chinese	瑪麗·居里	物理學家，化學家	居里夫人	
Chinese	玛丽·居里	物理学家，化学家	居里夫人	
Afrikaans	Marie Curie	Fraans-Poolse fisikus en chemikus		
Amharic	ማሪ ካሪ	No description defined		
Aragonese	Marie Curie	No description defined		
Arabic		ماري كوري	عالمة كيمياء بولندية	
Egyptian Arabic		مارى كورى	No description defined	
Assamese	মেরী কুৰী	No description defined		
Asturian	Marie Curie	química y física polaco-francesa	Maria Salomea Skłodowska Marie Skłodowska-Curie	

Statements and references

Statements

instance of	human	 edit
 ▾ 1 reference		
stated in	data.bnf.fr	
retrieved	10 October 2015	
reference URL	http://data.bnf.fr/ark:/12148 /cb121447141	

 + add reference

 + add value

Identifiers

Identifiers

Mathematics Genealogy



177944

Project ID

▼ 0 references

VIAF ID



76353174

▼ 0 references

Sample of current biomedical content in Wikidata



- All human, mouse genes and proteins (swissprot)
- All Gene Ontology terms
- All Human Disease Ontology terms
- All FDA approved drugs
- 109 reference microbial genomes

Mitraka et al (2015) *Semantic Web Applications for the Life Sciences*
Burgstaller-Muelbacher et al (2016) *Database*
Putman et al (2016) *Database*

Types of content in Wikidata

- People
- Places
- Taxa
- Buildings
- Organisations
- Artworks
- Events
- Astronomical Bodies
- Chemicals
- Processes
- Theorems
- Concepts
- **Works**
- **Journals**
- **Publishers**
- Meta-items

{ } wikicite

A structured bibliographic database of linked data
to serve as a foundation of free knowledge

Zika virus • [Q202864](#)

TAXON

has natural reservoir • [P1605](#)

Aedes hensilli • [Q14573674](#)

TAXON

stated in • [P248](#)

Aedes hensilli as a potential vector of Chikungunya and Zika viruses • [Q22330738](#)

SCIENTIFIC ARTICLE

funded by • [P859](#)

Centers for Disease Control and Prevention • [Q583725](#)

GOVERNMENT AGENCY

published in • [P1433](#)

PLOS Neglected Tropical Diseases • [Q3359737](#)

SCIENTIFIC JOURNAL

publisher • [P123](#)

Public Library of Science • [Q233358](#)

PUBLISHER

DATA PROVENANCE OF STATEMENTS BY OUTLET, PUBLISHER OR FUNDER

Reelin

From Wikipedia, the free encyclopedia

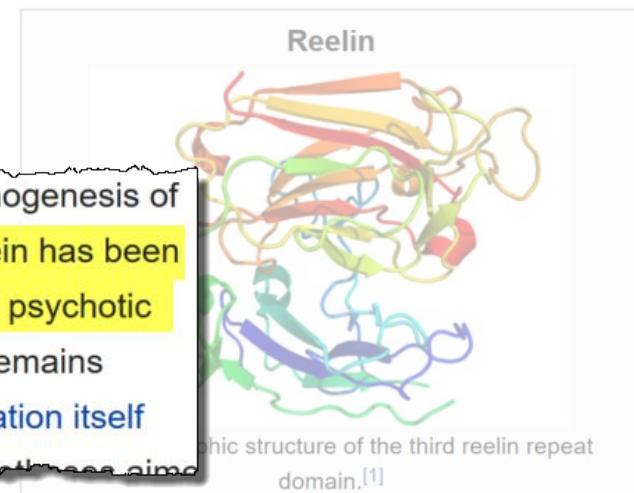
Reelin is a large secreted extracellular matrix glycoprotein that helps regulate processes of neuronal migration and positioning in the developing brain by controlling cell–cell interactions.

Besides this important role in early development, reelin continues to work in the adult brain. It modulates synaptic plasticity by [2][3] It also stimulates dendrite[4] migration of neuroblasts general zones. It is found not only in the tissues.

Reelin has been suggested to be expression of the protein has been bipolar disorder, but the cause of this observation remains uncertain as studies show that psychotropic medication itself affects reelin expression. Moreover, epigenetic hypotheses aimed at explaining the changed levels of reelin expression[6] are controversial.[7][8] Total lack of reelin causes a form of lissencephaly. Reelin may also play a role in Alzheimer's disease, temporal lobe epilepsy and autism.

Reelin's name comes from the abnormal reeling gait of *reeler* mice,[9] which were later found to have a deficiency of this brain protein and were homozygous for mutation of the RELN gene. The

Reelin has been suggested to be implicated in pathogenesis of several brain diseases. The expression of the protein has been found to be significantly lower in schizophrenia and psychotic bipolar disorder, but the cause of this observation remains uncertain as studies show that psychotropic medication itself



Available structures

PDB Ortholog search: PDBe 🔗, RCSB 🔗

List of PDB id codes

[show]

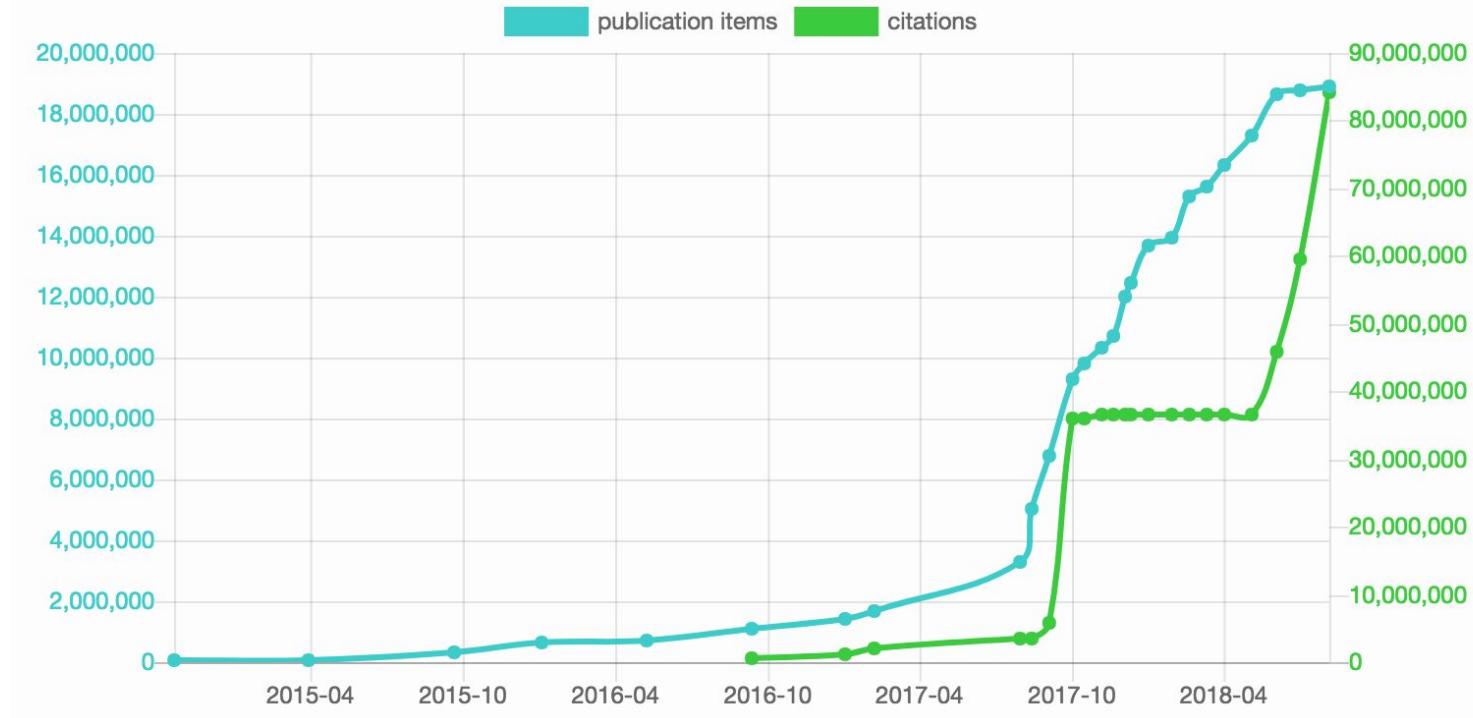
Identifiers

Symbols RELN ; LIS2; PRO1598; RL

External OMIM: 600514 MGI: 103022

A growing database of sources stored as Wikidata items

19 million items, 38% of all Wikidata



Key bibliographic properties

(% growth since WikidataCon 2017 – October 2017)

author (P50) 2,628,616 (+200%)

author name string (P2093) 75,556,563 (+90%)

ISBN-13 (P212) *often used for book editions* 36,260 (+21%)

DOI (P356) *often used for journal articles* 6,895,447 (+90%)

main subject (P921) 2,592,073 (+500%)

All scholarly articles cited in Wikipedia across languages

half a million **sources cited on the English Wikipedia using a PubMed or PubMed Central identifier now available as Wikidata items**

5. ^ Penicillin at the Free Dictionary 
6. ^ Garrod, L. P. (1960). "Relative Antibacterial Activity of Three Penicillins". *British Medical Journal*. 1 (5172): 527–29.
doi:10.1136/bmj.1.5172.527 
7. ^ Garrod, L. P. (1960). "The Relative Antibacterial Activity of Four Penicillins" . *British Medical Journal*. 2 (5214): 1695–6.
doi:10.1136/bmj.2.5214.1695  PMC 2098302  PMID 13703756 
8. ^ "Penicillin G and Penicillin V"  . livertox.nih.gov. Retrieved 2016-09-25.
9. ^ "Penicillin (Benzylpenicillin, Penicillin G, Bicillin C-R/L-A, Pfizerpen, Wycillin)"  . The Antimicrobial Index. Knowledgebase. Retrieved 4 March 2014.
10. ^ "Penicillin G sodium salt Susceptibility and Resistance Data"  (PDF). TOKU-E. Retrieved 4 March 2014.
11. ^ a b c Rossi S, ed. (2006). *Australian Medicines Handbook*. Adelaide: Australian Medicines Handbook. ISBN 0-9757919-2-3.

Broad coverage of scholarly journals

{ } **WikiCite**
@Wikicite

Web of Science currently includes 32,840
scholarly journals –**@habib #force2017**



3:30 AM - 25 Oct 2017

{ } **WikiCite**
@Wikicite

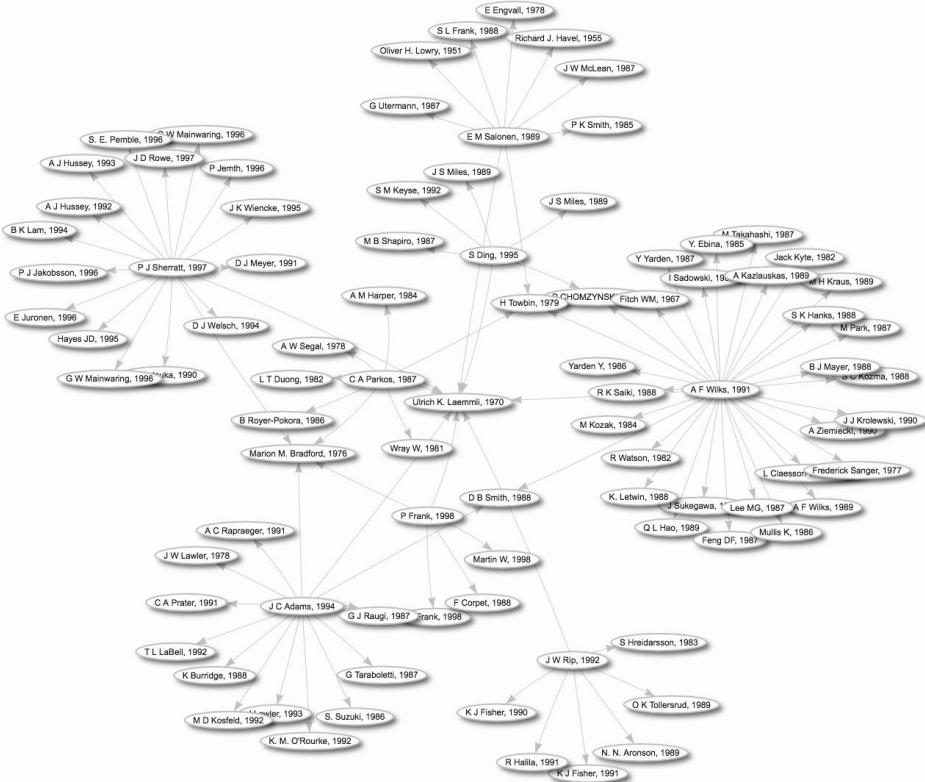
There are now 42,650 items about scholarly journals in **@wikidata**, up +80% since last year.

<https://twitter.com/Wikicite/status/923134697680629760>

<https://twitter.com/Wikicite/status/921520882392088576>

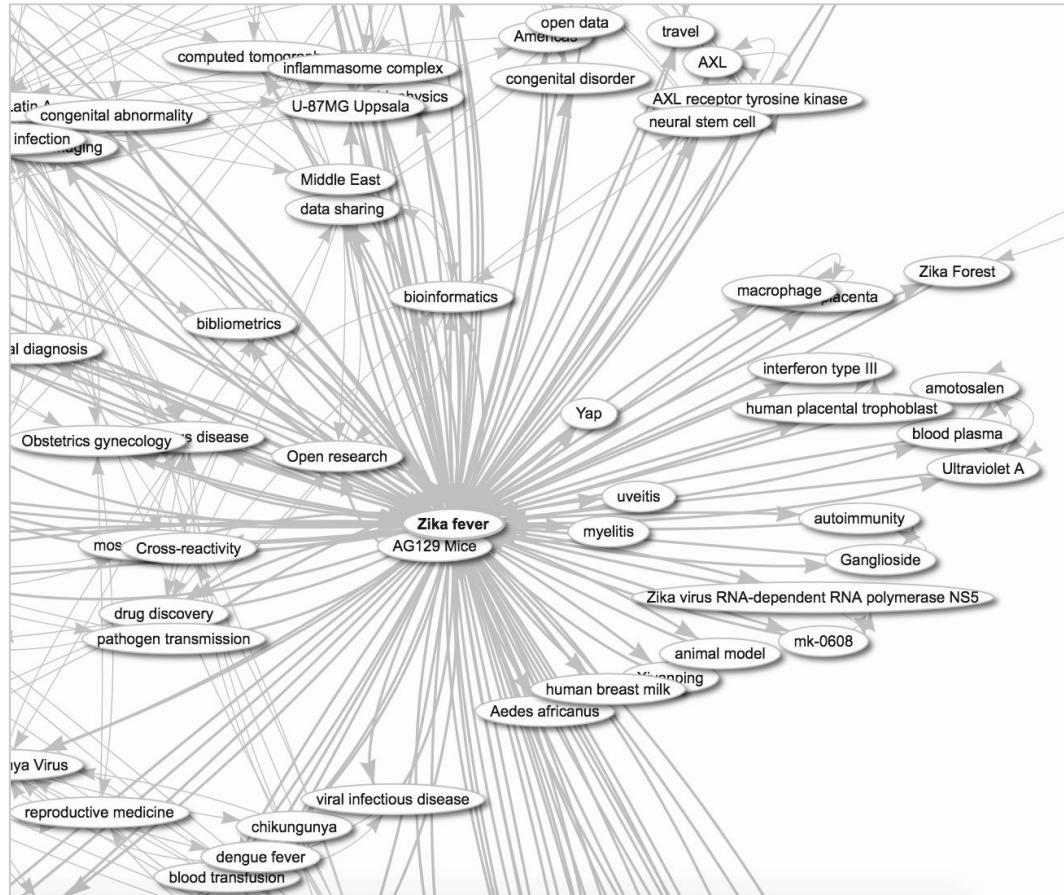
The Wikidata citation graph

90 million citation links
using the `cites` (P2860)
property



The Zika corpus

the complete, **annotated**
scholarly publication
corpus on Zika virus
(Q202864)



Tracking the impact of a scholarly paper

Supports the following statement(s)

Statements in Wikidata supported by references to this work. Only a maximum of around 2000 statements are shown.

Search:

Item	Property	Value	
Cathelicidin antimicrobial peptide	biological process	antimicrobial humoral immune response mediated by antimicrobial peptide	
Cathelicidin antimicrobial peptide	biological process	innate immune response	
Amyloid beta precursor protein	biological process	antifungal humoral response	
Amyloid beta precursor protein	biological process	antibacterial humoral response	
Amyloid beta precursor protein	biological process	defense response to Gram-negative bacterium	
Amyloid beta precursor protein	biological process	response to yeast	
Amyloid beta precursor protein	biological process	defense response to Gram-positive bacterium	
Amyloid beta precursor protein	biological process	innate immune response	Example: Q21090025

Using annotations for provenance

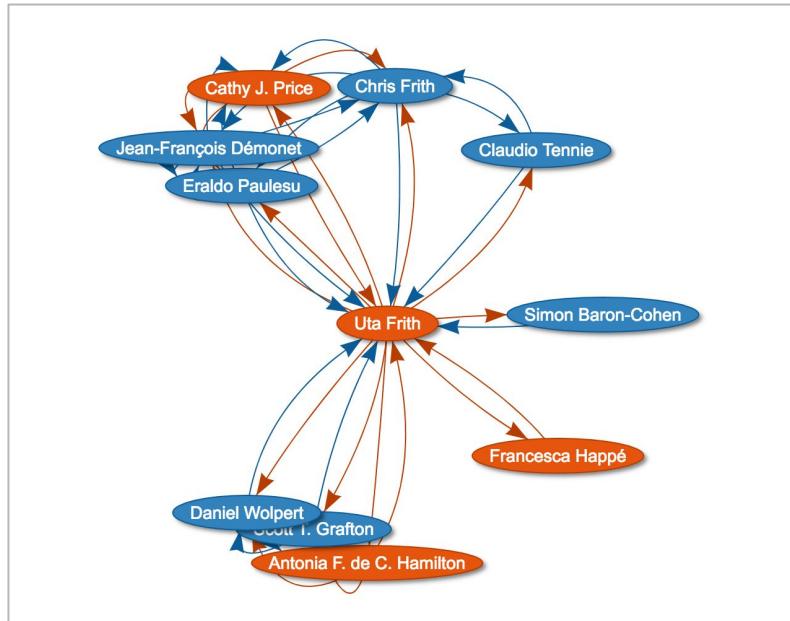
decreased expression in	schizophrenia ...	
	determination method	Immunohistochemistry ...
1 reference		
	stated in	Reduction in Reelin immunoreactivity in hippocampus of subjects with schizophrenia, bipolar disorder and major depression.
	retrieved	24 July 2017
	reference URL	https://via.hypothes.is/https://www.ncbi.nlm.nih.gov/pubmed/11126396#annotations:HVXGMnfUEeetV2sj-_VpSQ

Example: [Q13561329](#) (Reelin)

Paper: [Reduction in Reelin immunoreactivity in hippocampus of subjects with schizophrenia, bipolar disorder and major depression](#)

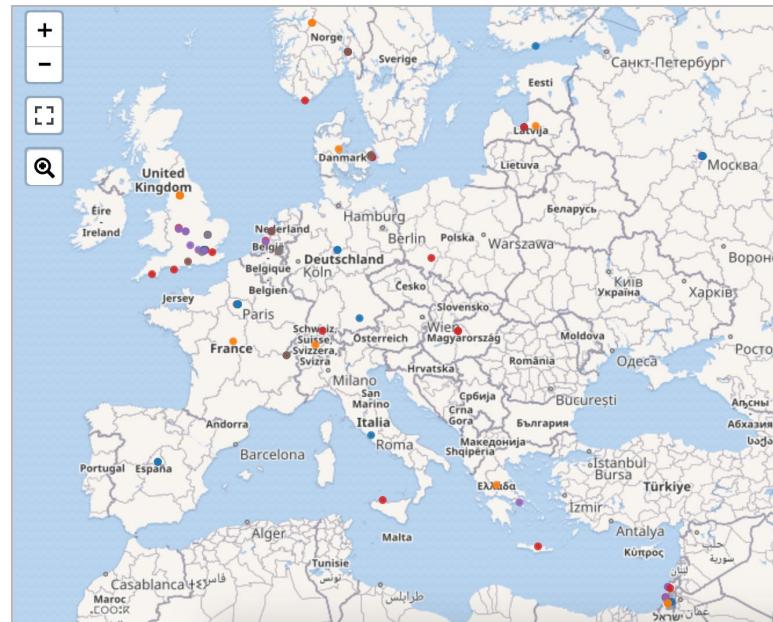
Scholia

an open source, Wikidata-driven **scholarly profile application**



CO-AUTHOR GRAPH FOR **UTA FRITH**

<https://tools.wmflabs.org/scholia/author/Q8219>

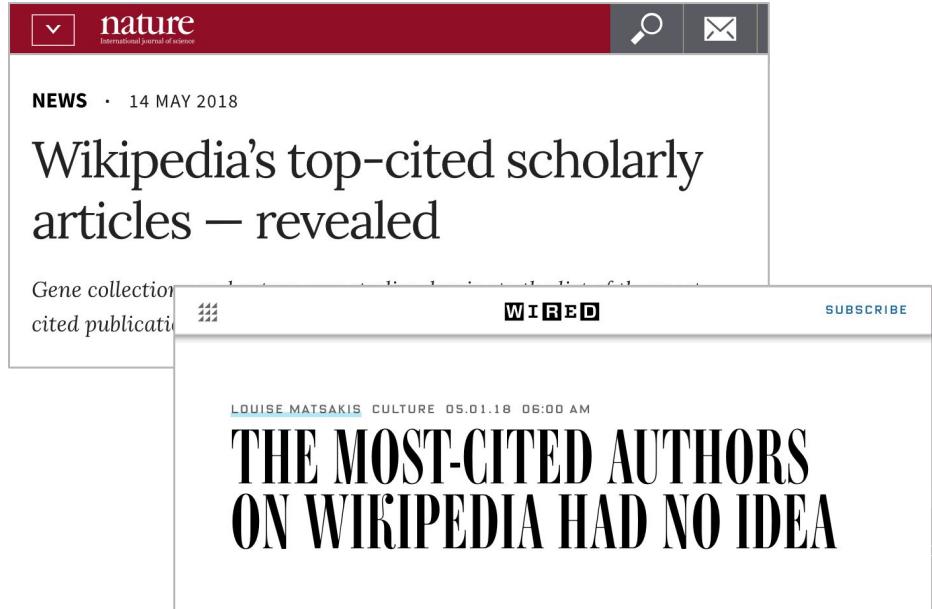
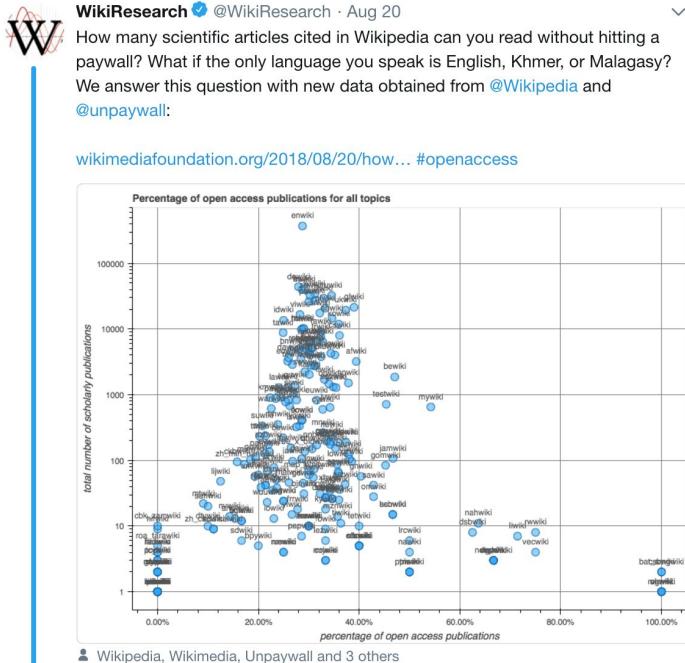


LOCATION OF **TURING AWARD** RECIPIENTS

<https://tools.wmflabs.org/scholia/award/Q185667>

Knowledge Integrity

Strengthening the citation infrastructure for Wikimedia projects



WikiCite roadmap

3 distinct objectives, 4 possible federation options

A database of all sources cited in Wikimedia projects as linked data

A platform to curate and annotate custom bibliographic corpora

A platform to build the “bibliographic commons”

bit.ly/WikiCiteRoadmap

{ } wikicite



San Francisco Bay Area, 27-29 November 2018

Bay Bridge by Tehani Schroeder • flic.kr/p/oFz47p • CC BY

Thank you

dario@wikimedia.org • @readermeter • @wikicite



Slides mashed up with contributions by
Daniel Mietchen, Andy Mabbett, Andra Waagmeester

growth by Fabio Rinaldi from the Noun Project