

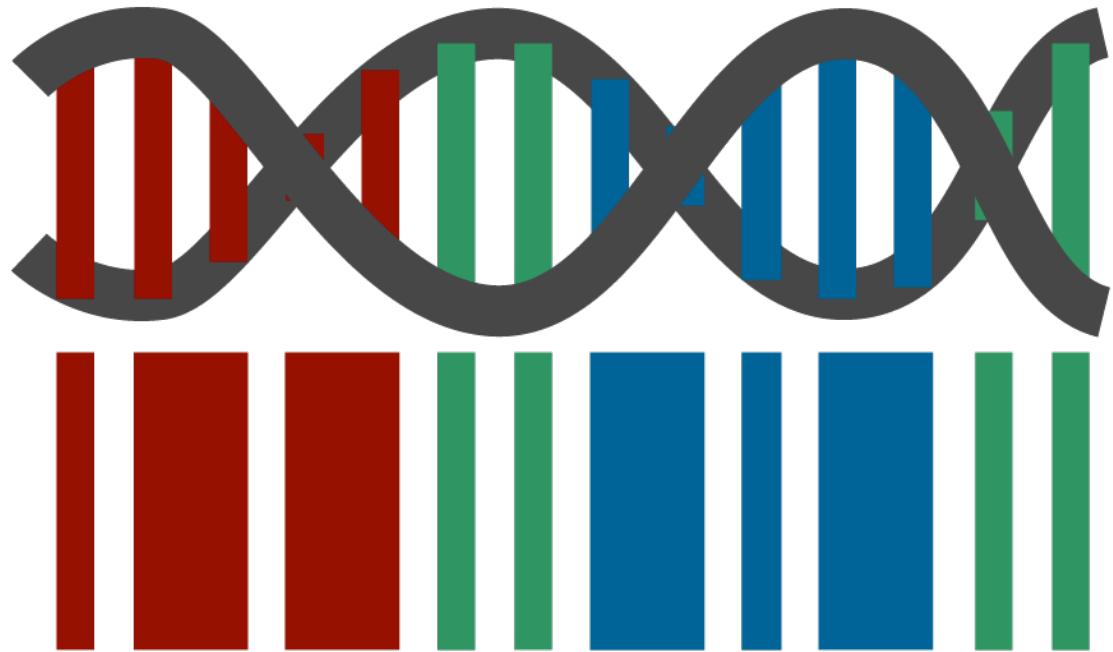
Wikidata: A platform for data integration and dissemination for the life sciences and beyond

Elvira Mitraka, Andra Waagmeester, Sebastian Burgstaller-Muehlbacher, Lynn M. Schriml, Andrew I. Su and Benjamin M. Good



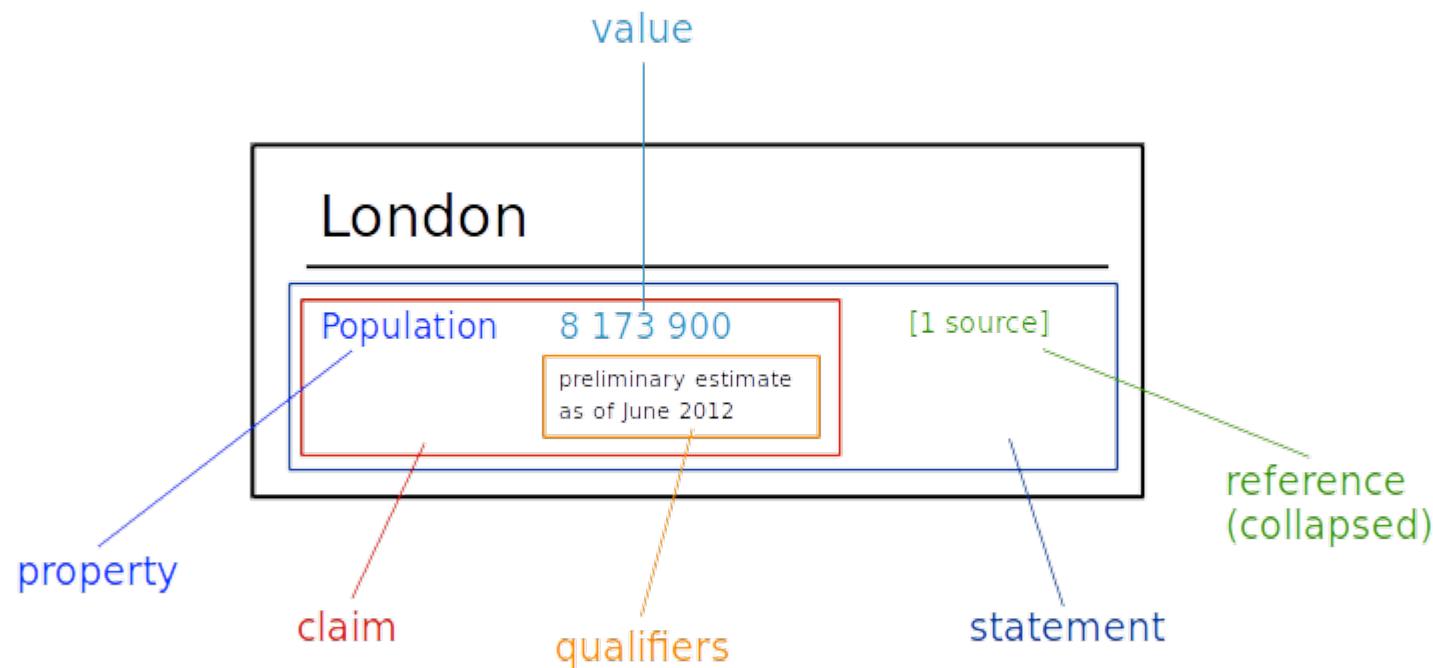
How to make soup.





WIKIDATA

A Wikidata Statement



https://commons.wikimedia.org/wiki/File:Wikidata_statement.svg



Item Discussion

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Search



gout (Q133087)

Human disease

gouty arthritis | articular gout (disorder) | gouty arthropathy | podagra

[edit]

▼ In more languages

Language	Label	Description	Also known as
English	gout	Human disease	gouty arthritis articular gout (disorder) gouty arthropathy podagra
German	Gicht	Krankheit	Chiragra Arthritis urica Podagra
Greek	Ουρική αρθρίτιδα	ασθένεια	Ποδάγρα Ουρική Αρθρίτις

Statements

prevalence

1.5±0.5 percentage

[edit]

▶ 1 reference

[add]

symptoms

joint pain

[edit]

▼ 0 references

[add reference]

[add]

has contributing factor

genetics

[edit]

▼ 0 references

[add reference]

diet

[edit]

▼ 0 references

[add reference]

obesity

[edit]

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GENES - DISEASE



GENES



GENE FUNCTION



DRUGS - DISEASE



DRUGS



DISEASE - PHENOTYPE

-
- ● ● • human
 - ● ● • phenotype
 - ● ● • ontology
-

DISEASE



PROTEIN FUNCTION
DISEASE - PROTEIN



ProteinBoxBot

The objective of this bot is to provide Wikidata with up-to-date high quality information about genes, diseases, and drugs.

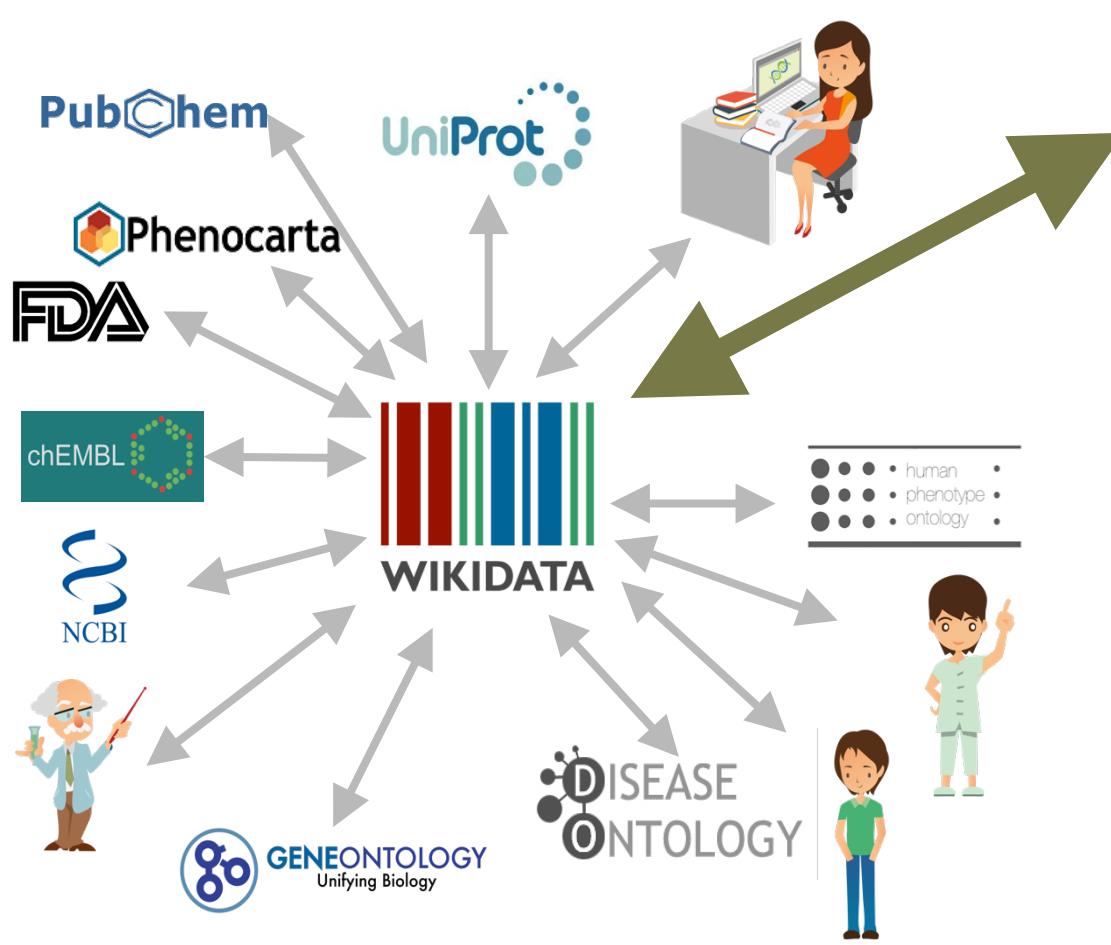
URL:

<https://www.wikidata.org/wiki/User:ProteinBoxBot>

Open source code:

<https://bitbucket.org/sulab/wikidatabots>

Wikidata:WikiProject Molecular biology



WIKIPEDIA

English	WIKIPEDIA
<i>The Free Encyclopedia</i> 4 998 000+ articles	
Deutsch <i>Die freie Enzyklopädie</i> 1 889 000+ Artikel	
Русский <i>Свободная энциклопедия</i> 1 263 000+ статей	
中文 <i>自由的百科全書</i> 846 000+ 徒目	
Português <i>A encyclopédia livre</i> 892 000+ artigos	
Español <i>La encyclopédie libre</i> 1 209 000+ artículos	
日本語 <i>フリー百科事典</i> 989 000+ 記事	
Français <i>L'encyclopédie libre</i> 1 682 000+ articles	
Italiano <i>L'encyclopédie libre</i> 1 231 000+ voci	
Polski <i>Wolna encyklopedia</i> 1 140 000+ hasł	

Items maintained by
ProteinBoxBot:

Human proteins	19594
Human genes	58653
Mouse genes	73093
Microbial genes	1738
Diseases	9030
Drugs	1859
Total items	130591



WIKIPEDIA
The Free Encyclopedia

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Reelin [edit source | edit]

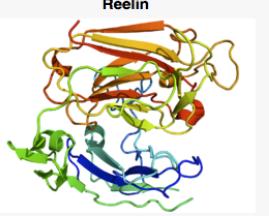
A *B-class article* from Wikipedia, the free encyclopedia. A former good article nominee.

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 enhancing the induction and maintenance of long term potentiation.^{[1][2]} It also stimulates dendrite^[3] and dendritic spine^[4] development and regulates the continuing migration of neuroblasts generated in adult neurogenesis sites like subventricular and subgranular zones. It is found not only in the brain but also in the spinal cord, blood, and other body organs and tissues.

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 affects reelin expression. Moreover, epigenetic hypotheses aimed at explaining the changed levels of reelin expression^[5] are controversial.^{[6][7]} 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,^[8] which were later found to have a deficiency of this brain protein and were homozygous for mutation of the RELN gene. The primary phenotype associated with loss of reelin function is a failure of neuronal positioning throughout the developing central nervous system (CNS). The mice heterozygous for the reelin gene while having little neuroanatomical defects, display the endophenotypic traits linked to psychotic disorders.^[9]

Contents [show]



Available structures

- PDB Ortholog search: PDB¹, RCSB²
- List of PDB id codes [show]
- Identifiers

Symbols RELN, LIS2, PRO1598, RL, reelin, entrez:5649, ETL7

External IDs HomoloGene: 3699 GeneCards: RELN Gene

Gene ontology [show]

RNA expression pattern 205923_at



More reference expression data

Orthologs

Species	Human	Mouse
Entrez	5649	19699
Ensembl	ENSG00000189056	ENSMUSG00000042453
UniProt	P78509	Q60841
RefSeq (mRNA)	NM_173054	NM_011261
RefSeq (protein)	NP_005036.2	NP_035391.2
Location (UCSC)	Chr 7: 103.47 – 103.99 Mb	Chr 5: 21.88 – 22.34 Mb
PubMed search	[1]	[2]



Item Discussion Read More Search

RELN (Q414043)

human gene

LIS2 | PRO1598 | RL | reelin | entrez:5649 | ETL7

In more languages

Statements

subclass of	protein-coding gene	[edit]
	gene	[edit]
	chromosome	[edit]
	found in taxon	[edit]

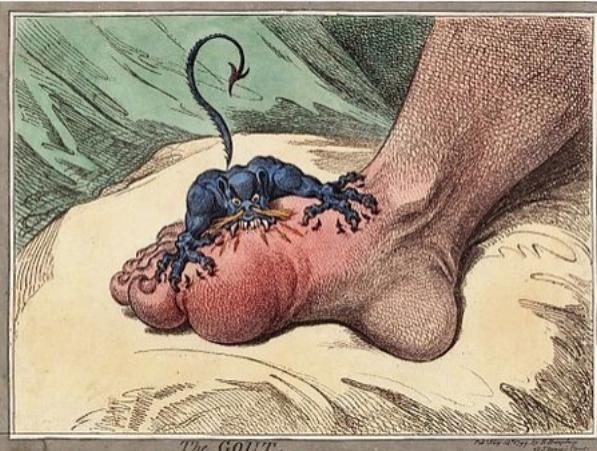
► 1 reference

► 1 reference

► 1 reference

► 1 reference

Gout



The Gout (James Gillray, 1799) depicts the pain of the artist's gout as a demon or dragon.^{[1][2]}

Classification and external resources

Specialty rheumatology

ICD-10 M10 ↗

ICD-9-CM 274.00 ↗ 274.1 ↗ 274.8 ↗ 274.9 ↗

OMIM 138900 ↗ 300323 ↗

DiseasesDB 29031 ↗

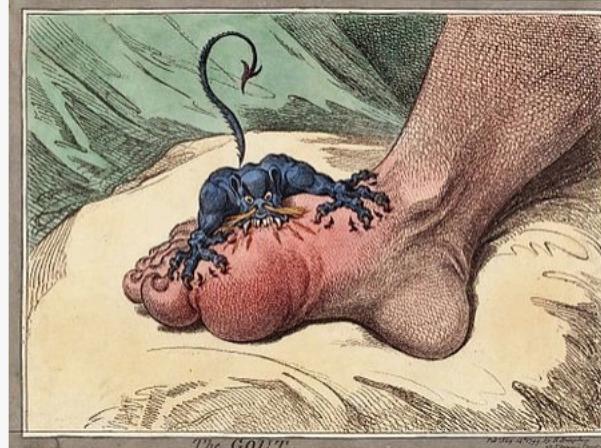
MedlinePlus 000422 ↗

eMedicine emerg/221 ↗ med/924 ↗
med/1112 ↗ oph/506 ↗
orthoped/124 ↗ radio/313 ↗

Patient UK Gout ↗

MeSH D006073 ↗

Gout



Q683498

Q7162

Q474191

Q12174

The Gout (James Gillray, 1799) depicts the pain of the artist's gout as a demon or dragon.^{[1][2]}

Specialty rheumatology

Symptoms joint pain

Causes genetics, diet, obesity

Medication ibuprofen, prednisone, colchicine

Frequency 1.5±0.5 percentage

Q186969, Q424972, Q326224

External links

[Gout at DMOZ](#)



Wikimedia Commons has media related to *Gout*.

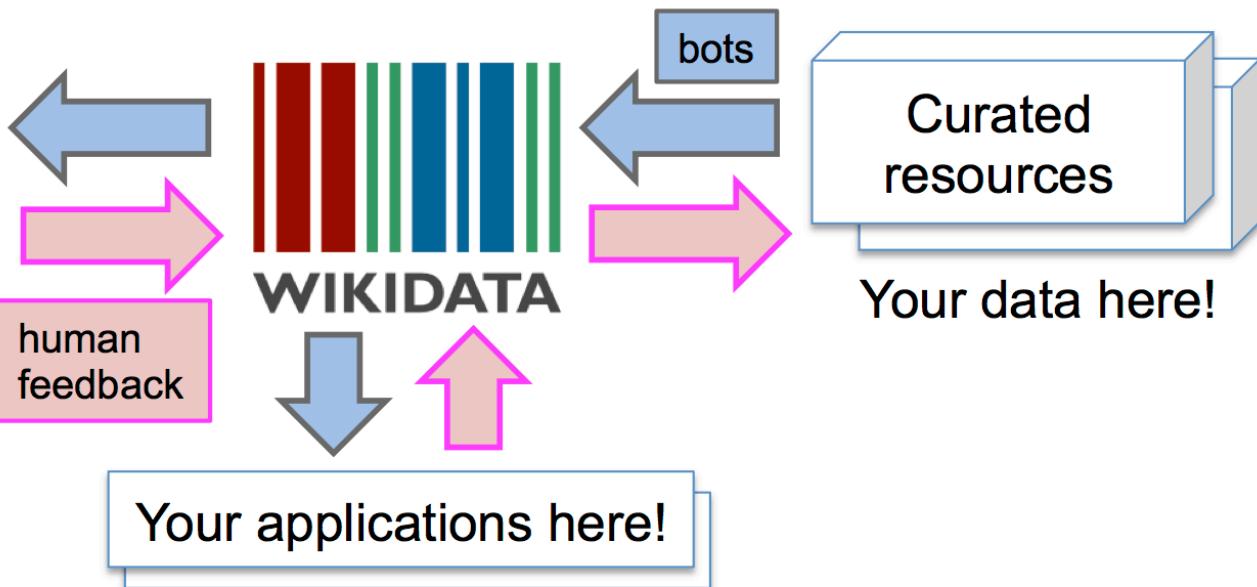
Classification ICD-10: M10 ↗ - ICD-9-CM: 274.00 ↗ 274.1 ↗ 274.8 ↗ 274.9 ↗ - OMIM: 138900 ↗ 300323 ↗ - DiseasesDB: 29031 ↗

External resources MedlinePlus: 000422 ↗ - eMedicine: emerg/221 ↗ med/924 ↗ med/1112 ↗ oph/506 ↗ orthoped/124 ↗ radio/313 ↗ - Patient UK: Gout ↗ - MeSH: D006073 ↗

Edit this page data!

The screenshot shows a Wikipedia article page for the protein Reelin. At the top, there's a navigation bar with links like Article, Talk, Read, Edit source, and Search. The main content discusses Reelin's role in neuronal migration and synaptic plasticity. It includes a 3D ribbon diagram of the protein structure, several external links, and a sidebar with various identifiers and symbols. On the left, a sidebar lists common Wikipedia navigation links such as Interaction, Help, About Wikipedia, and Tools.

Millions of viewers
Thousands of curators?



Drug-Drug Interactions

- drug-drug interactions for Methadone based on its CHEMBL id

source	sourceLabel	chembl	targetLabel
CHEMBL651	"methadone"@en	CHEMBL1008	"Bepridil"@en
CHEMBL651	"methadone"@en	CHEMBL533	"Ibutilide"@en
CHEMBL651	"methadone"@en	CHEMBL473	"Dofetilide"@en
CHEMBL651	"methadone"@en	CHEMBL1089	"Phenelzine"@en
CHEMBL651	"methadone"@en	CHEMBL850	"Sparfloxacin"@en
CHEMBL651	"methadone"@en	CHEMBL1107	"Halofantrine"@en
CHEMBL651	"methadone"@en	CHEMBL560739	"Cisapride"@en
CHEMBL651	"methadone"@en	CHEMBL517	"Disopyramide"@en
CHEMBL651	"methadone"@en	CHEMBL32	"Moxifloxacin"@en
CHEMBL651	"methadone"@en	CHEMBL608	"Probucol"@en

Stone Soup of Data



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Many Wikipedia and Wikidata editors

ProteinBoxBot:
[https://www.wikidata.org/
wiki/User:ProteinBoxBot](https://www.wikidata.org/wiki/User:ProteinBoxBot)

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BD2K COE: GM114833