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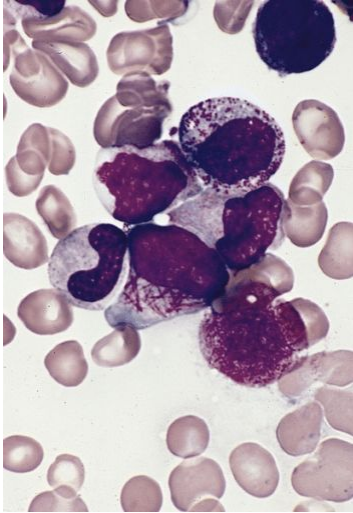
Andra Waagmeester

Micelio, Antwerp, Belgium | Email: andra@micelio.be, Twitter: @andrawaag

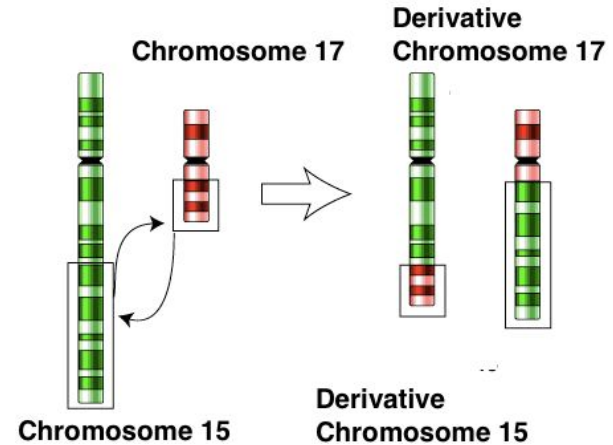


Acute promyelocyticische leukemie

Cancer of the white blood cells



Chromosomal translocation on the
RAR α
gene



Randomized Phase III Trial of Retinoic Acid and Arsenic Trioxide Versus Retinoic Acid and Chemotherapy in Patients With Acute Promyelocytic Leukemia: Health-Related Quality-of-Life Outcomes

Fabio Efficace, Franco Mandelli, Giuseppe Avvisati, Francesco Cottone, Felicetto Ferrara, Eros Di Bona, Giorgia Specchia, Massimo Breccia, Alessandro Levis, Simona Sica, Olimpia Finizio, Maria Grazia Kropp, Giuseppe Fioritoni, Elisa Cerqui, Marco Vignetti, Sergio Amadori, Richard F. Schlenk, Uwe Platzbecker, and Francesco Lo-Coco

ABSTRACT

Purpose

A randomized clinical trial compared efficacy and toxicity of standard all-*trans*-retinoic acid (ATRA) plus chemotherapy versus ATRA plus arsenic trioxide in patients with newly diagnosed, low- or intermediate-risk acute promyelocytic leukemia (APL). Here, we report health-related quality-of-life (HRQOL) results.

Patients and Methods

HRQOL was a secondary end point of this trial. The European Organisation for Research and Treatment of Cancer Quality of Life Questionnaire–Core 30 was used to assess HRQOL at end of induction and after consolidation therapy. All analyses were based on 156 patients who received at least one dose of treatment, with groups defined according to randomly assigned treatment. Primary analysis was performed, estimating mean HRQOL score over time and differences between treatment arms using a linear mixed model.

Fabio Efficace, Franco Mandelli, Francesco Cottone, and Marco Vignetti, Gruppo Italiano Malattie Ematologiche dell'Adulto; Giuseppe Avvisati, Università Campus BioMedico; Massimo Breccia, Università "La Sapienza"; Simona Sica, Università Cattolica Sacro Cuore; Sergio Amadori and Francesco Lo-Coco, Università Tor Vergata; Francesco Lo-Coco, Fondazione Santa Lucia, Roma; Felicetto Ferrara, Ospedale Cardarelli, Olympia Finizio, Ospedale Cardarelli, Napoli; Eros Di Bona, Ospedale San Bortolo, Vicenza; Giorgia Specchia, Università di Bari, Bari; Alessandro Levis, Ospedale SS Antonio e Biagio, Alessandria; Maria Grazia Kropp, Azienda Ospedaliera Pugliese Cacicco, Catanzaro; Giuseppe Fioritoni, Ospedale Civile, Pescara; Elisa Cerqui, Ospedale Civile, Brescia, Italy; Richard F. Schlenk, University of Utah, Utah; and Uwe Platzbecker, Universitätsklinikum Carl Gustav Carus, Dresden, Germany.

Published online ahead of print at

Findings support the use of retinoic acid plus arsenic trioxide as preferred first-line treatment

Effects of arsenic trioxide known for decades in China

Original papers were published in the Chinese language and in journals that are obscure even to most Chinese readers

SCIENCE CHINA
Life Sciences

• REVIEW •

June 2013 Vol.56 No.6: 495–502
doi: 10.1007/s11427-013-4487-z

A drug from poison: how the therapeutic effect of arsenic trioxide on acute promyelocytic leukemia was discovered

RAO Yi^{1*}, LI RunHong² & ZHANG DaQing²

¹Peking-Tsinghua Center for Life Sciences at Peking University School of Life Sciences, Beijing 100871, China;

²Peking University Health Sciences Center, Beijing 100871, China

Received March 27, 2013; accepted April 5, 2013; published online May 3, 2013

Folk tale of the stone soup



Een Wikipedia artikel wordt net zo bereid als de stenen soep

The screenshot shows the Wikipedia article for "Journal of Computational Biology". The page layout includes a sidebar on the left with navigation links, a main content area with the article title and introductory text, and a right sidebar with publication details. Two red dashed boxes highlight specific areas: one around the main article text and another around the "External links" section. Both boxes contain a red border and a red dashed line, indicating that the article is a stub and needs expansion.

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Journal of Computational Biology

From Wikipedia, the free encyclopedia

The *Journal of Computational Biology* is a monthly peer-reviewed scientific journal covering computational biology and bioinformatics. It was established in 1994 and is published by Mary Ann Liebert, Inc. The editors-in-chief are Sorin Istrail (Brown University) and Michael S. Waterman (University of Southern California). According to the *Journal Citation Reports*, the journal has a 2012 impact factor of 1.564.^[1]

Journal of Computational Biology

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See tips for writing articles about academic journals. Further suggestions might be found on the article's talk page.

Abbreviated title (ISO 4)	<i>J. Comp. Biol.</i>
Discipline	Computational biology
Language	English
Edited by	Sorin Istrail, Michael S. Waterman
Publication details	
Publisher	Mary Ann Liebert, Inc.
Publication history	1994-present
Frequency	Monthly

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4.3 醫學

4.3.

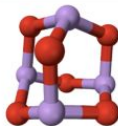
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5 参见

1. 4. 2017

pedia: 11

三氧化二砷



IUPAC名

Arsenic trioxide

英文名

Arsenic trioxide

别名

亞砷酸酐：氯化砷(III)：砒霜：鶴頂紅

识别

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<http://en.wikipedia.org>

https://en.wikipedia.org/wiki/Main_Page

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Arsenic trioxide

From Wikipedia, the free encyclopedia

Arsenic trioxide is an **inorganic compound** with the **formula** As_2O_3 . This commercially important **oxide of arsenic** is the main precursor to other arsenic compounds, including **organoarsenic compounds**. Approximately 50,000 **tonnes** are produced annually.^[4] Many applications are controversial given the high toxicity of arsenic compounds.

Contents [\[hide\]](#)

- 1 Production and occurrence
- 2 Properties and reactions
- 3 Structure
- 4 Uses
- 5 Medical applications
- 6 Toxicology
- 7 Environmental problems
- 8 References
- 9 External links

Production and occurrence [\[edit\]](#)

Arsenic trioxide can be generated via routine processing of arsenic compounds including the oxidation (combustion) of arsenic and arsenic-containing minerals in air. Illustrative

X
Arsenic trioxide



As³⁺ O²⁻

Names

Systematic IUPAC name

Diarsenic trioxide

Other names

Arsenic(III) oxide,


Language independent info boxes

Dutch

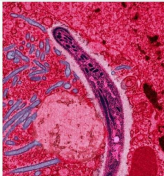
nl.m.wikipedia.org
Malaria

Rode bloedcel geïnfecteerd met <i>P. vivax</i>
Coderingen
ICD-10 B50 ↗
ICD-9 084 ↗
OMIM 248310 ↗

Greek

el.m.wikipedia.org
Ελονοσία
Ταξινόμηση και εξωτερικές πηγές

Ταξινόμηση B50 ↗
ICD-10 084 ↗
ICD-9 248310 ↗
OMIM 7728 ↗
DiseasesDB 000621 ↗
MedlinePlus med/1385 ↗ emerg/305 ↗
eMedicine ped/1357 ↗

English

en.m.wikipedia.org
Malaria

A Plasmodium from the saliva of a female mosquito moving across a mosquito cell
Classification and external resources
Specialty Infectious disease
ICD-10 B50 ↗ -B54 ↗
ICD-9-CM 084 ↗



Dutch

nl.m.wikipedia.org
Suriname
Hoofdstad Oranjestad
Regeringsvorm Constitutionele monarchie
Staatshoofd Koning Willem-Alexander Fredis Riefunjo (gouverneur)
Regeringsleider Mike Eman (Arubaanse Volkspartij)
Religie Katholiek 82%, protestant 8%

103,400 ^[2] (197th)

• Εκτίμηση 2014

Greek

el.m.wikipedia.org
Πολίτευμα Συνταγματική Μοναρχία
Μονάρχης Γουλιέλμος-Κυβερνήτης Αλέξανδρος Πρωθυπουργός Φρέντις Ρεφουνιόλ Μάικ Έμαν
Πλήρης αυτονομία από το Βασίλειο των Κάτω Χωρών Σύνταγμα
Έκταση • Συνολό Ακτογραμμή 180 km² (213η) 68,5 km
Πληθυσμός • Εκτίμηση 2014 107.394 ^[1] (196η) • Απογραφή 2000 103.065 • Πυκνότητα 556,4 κατ./km² (21η)
Α.Ε.Π. (PPP) • Ολικό (2005) 2,258 δισ. \$ ^[3]

107.394^[1] (196η)

English

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- Rei Willem-Alexan
- Governador Fredis Riefunjo
- Promie Minister Mike Eman
Pais den Reino di Hulanda
Status aparte 1 januari di 19
Area - Total 193 km² (n/a)

101.484 (2010)^[2]

110.663 (2014)^[3]

(614,8/km² (2014))

The Gene Wiki project, circa 2008

Summarized
knowledge via
crowdsourcing

IL2-inducible T-cell kinase

Function

This gene encodes an intracellular tyrosine kinase expressed in T-cells. The protein is thought to play a role in T-cell proliferation and differentiation.^{[2][3]}

Structure

This protein contains the following domains, which are often found in intracellular kinases:^[4]

- N-terminus – PH (pleckstrin homology domain)
- ITK – Bruton's tyrosine kinase Cys-rich motif
- SH3 – (Src homology 3)
- SH2 – (Src homology 2)
- C-terminus – tyrosine kinase, catalytic domain

Interactions

ITK (gene) has been shown to interact with FYN,^{[5][6]} Wiskott-Aldrich syndrome protein,^{[7][8]} KHDRBS1,^{[8][9][10]} PLCG1,^{[10][11]} Lymphocyte cytosolic protein 2,^{[11][12]} Linker of activated T cells,^{[12][13]} Karyophormin alpha 2,^[14] Grb2^{[5][9]} and Peptidyl/prolyl isomerase A.^[15]

References

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- Shan, X; Wang R L (Oct. 1999). "ItkEm/Tsk activation in response to CD3 cross-linking in Jurkat T cells requires ZAP-70 and Lat and is independent of membrane recruitment". *J. Biol. Chem. (UNITED STATES)* **274** (41): 29323–30. ISSN 0021-9258. PMID 10501192.
- Perez-Villar, Juan J; Whitehead, Simon

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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](#) generat

[zones](#). It is found not only in the

tissues.

Reelin has been suggested to be

expression of the protein has be

[bipolar disorder](#), but the cause of this observation remains uncertain as studies show that

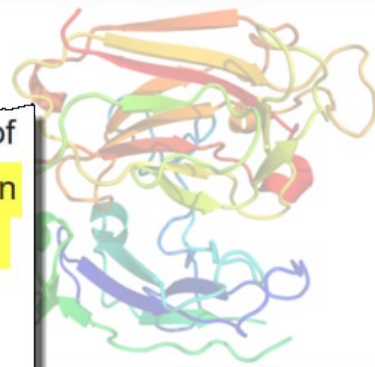
[psychotropic medication itself affects reelin expression](#). Moreover, epigenetic hypotheses aimed at explaining the changed levels of reelin expression^[6] are controversial.^{[7][8]} Total lack of reelin

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

Reelin



3D ribbon structure of the third reelin repeat domain.^[1]

Available structures

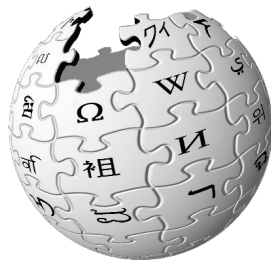
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List of PDB id codes [\[show\]](#)

Identifiers

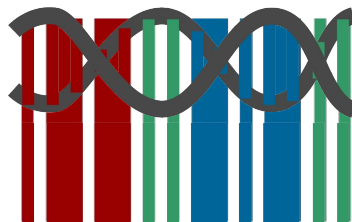
Symbols [RELN](#) ; LIS2; PRO1598; RL

External [OMIM: 600514](#) [MGI: 103022](#)



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“Provide a database of the world’s
knowledge that anyone can edit

- Denny Vrandečić

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Article

Talk

Reelin

From Wikipedia, the free encyclopedia

Reelin (RELN)^[5] 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**.^{[6][7]} It also stimulates dendrite^[8] and **dendritic spine**^[9] 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. ^[*citation needed*]

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**,^[10] 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^[11] are controversial.^{[12][13]} Total lack of reelin causes a form of **lissencephaly**. Reelin may also play a role in **Alzheimer's disease**, **temporal lobe epilepsy** and **autism**.^[*citation needed*]

Reelin's name comes from the abnormal reeling **gait** of **reeler** mice,^[14] 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.^[15]

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In adults

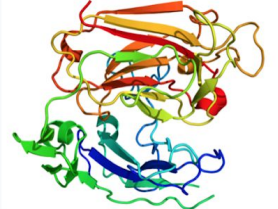
5

Evolutionary significance

6

Mechanism of action

RELN



Available structures

PDB

Ortholog search: PDBe RCSB

List of PDB id codes

[show]

Identifiers

Aliases

RELN, LIS2, PRO1598, RL, reelin, ETL7

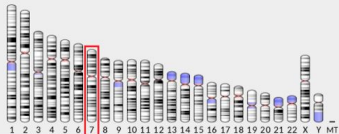
External IDs

OMIM: 600514 MGI: 103022 HomoloGene: 3699

GeneCards: RELN

Gene location (Human)

[hide]



Chr.

Chromosome 7 (human)^[1]

https://en.wikipedia.org/wiki/Reelin#Psychotropic_medication

Reelin - Wikidata

Secure | https://www.wikidata.org/wiki/Q13561329

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Reelin (Q13561329)

mammalian protein found in Homo sapiens [edit](#)

RELN | reelin | uniprot:P78509

[In more languages](#)

Statements

instance of	<div><div></div>protein<div>1 reference</div></div> <div>+ add value</div>
subclass of	<div><div></div>protein<div>1 reference</div></div>
	<div><div></div>Reelin<div>1 reference</div></div> <div>+ add value</div>
image	<div><div></div>2DDU.png<div>1 reference</div></div> <div>+ add value</div>

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Retinoic acid receptor alpha

From Wikipedia, the free encyclopedia

Retinoic acid receptor alpha (RAR-α), also known as **NR1B1** (nuclear receptor subfamily 1, group B, member 1) is a nuclear receptor that in humans is encoded by the *RARA* gene.^{[4][5]}

Contents [hide]

- Function
- Clinical significance
- Interactions
- See also
- References
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Function [edit]

Retinoid signaling is transduced by 2 families of nuclear receptors, retinoic acid receptor (RAR) and retinoid X receptor (RXR), which form RXR/RAR heterodimers. In the absence of ligand, DNA-bound RXR/RARA represses transcription by recruiting the corepressors NCOR1, SMRT (NCOR2), and histone deacetylase. When ligand binds to the complex, it induces a conformational change allowing the recruitment of coactivators, histone acetyltransferases, and the basic transcription machinery.^[6]

Clinical significance [edit]

RARA

Available structures

PDB Ortholog search: PDBe RCSB

List of PDB id codes [show]

Identifiers

Aliases RARA, NR1B1, RAR, retinoic acid receptor alpha

External IDs MGI: 97856 HomoloGene: 20262 GeneCards: RARA

Targeted by Drug

adapalene, alitretinoin, tazarotene, lazaretene, tretinoin^[1]

Gene ontology [show]

WIKIDATA

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retinoic acid receptor, alpha (Q28031040)

human gene

NR1B1 | RAR | RARA

+ In more languages

Statements

Entrez Gene ID 5914 [edit]

+ 1 reference [add]

subclass of protein-coding gene [edit]

+ 1 reference [add]

gene [edit]

+ 1 reference [add]

genomic start 40309192 [edit]

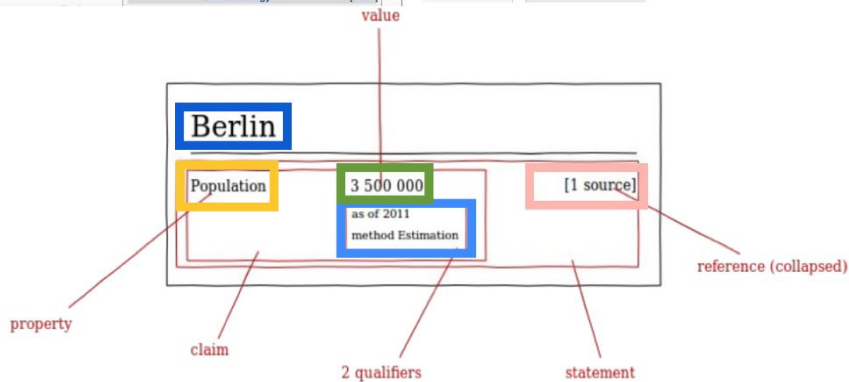
GenLoc assembly Genome assembly GRCp38 [edit]

+ 1 reference [add reference]

stated in NCBI homo sapiens annotation release 107 [edit]

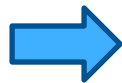
imported from NCBI Gene

retrieved 19 October 2015



Simple data retrieval

“Retrieve genes with
GWAS association
with asthma”



39 genes

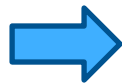
gene	geneLabel		gene	geneLabel		gene	geneLabel		gene	geneLabel
Q5013317	COL22A1		Q18027370	IGSF3		Q18053559	CDHR3		Q14903974	SMAD3
Q14912759	SLC22A5		Q18045382	HPSE2		Q18045669	ATG3		Q18033889	IL1RL1
Q14914243	PSAP		Q18048437	IL33		Q18035037	RAD50		Q17917202	ERBB4
Q14907990	SLC30A8		Q18051900	PYHIN1		Q18036984	FBXL7		Q18027836	IL6R
Q18025002	GAB1		Q17709208	ACO1		Q18033919	XPR1		Q18030185	NOTCH4
Q18035589	C6orf10		Q18027822	IL2RB		Q15326496	RORA		Q18030409	PDE4D
Q18054256	GSDMA		Q18030364	PBX2		Q18042132	GSDMB		Q18045645	IKZF4
Q18058487	C5orf56		Q18037773	ABI3BP		Q18029145	MKLN1		Q18039979	KLHL5
Q18030785	PRKG1		Q18039623	CTNNA3		Q18036729	RAP1GAP2		Q18026947	HLA-DQA1
Q18033424	IL18R1		Q18046350	ZNF665		Q14878303	IL13			

```

1 SELECT DISTINCT ?gene ?geneLabel where {
2   ?gene wdt:P2293 wd:Q35869 .    # gene has genetic association to "asthma"
3   ?gene wdt:P31 wd:Q7187 .       # gene is subclass of "gene"
4   SERVICE wikibase:label { bd:serviceParam wikibase:language "en". }
5 }
```

Data integration

“Retrieve genes with
GWAS association
with asthma and gene
product is localized to
membrane”



22 genes

gene	geneLabel	gene	geneLabel	gene	geneLabel	gene	geneLabel
Q14912759	SLC22A5	Q18027370	IGSF3	Q18035037	RAD50	Q18027836	IL6R
Q14914243	PSAP	Q18033424	IL18R1	Q18033919	XPR1	Q18030409	PDE4D
Q14907990	SLC30A8	Q18045382	HPSE2	Q18042132	GSDMB	Q18030185	NOTCH4
Q18035589	C6orf10	Q18027822	IL2RB	Q18036729	RAP1GAP2	Q18026947	HLA-DQA1

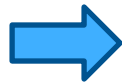
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1 SELECT DISTINCT ?gene ?geneLabel where {
2   ?gene wdt:P2293 wd:Q35869 . # gene has genetic association to "asthma"
3
4   ?gene wdt:P31 wd:Q7187 .      # gene is subclass of "gene"
5
6   ?gene wdt:P688 ?protein .      # gene encodes a protein
7   ?protein wdt:P681 ?cc .        # protein has a cellular component
8   ?cc wdt:P279*|wdt:P361* wd:Q14349455 . # cell component is 'part of' or 'subclass of' membrane
9
10  SERVICE wikibase:label { bd:serviceParam wikibase:language "en". }
11 }
```

http://bit.ly/bosc2017_wikidata

Computing on provenance

“Retrieve genes with GWAS association with asthma and gene product is localized to membrane (non-IEA)”



15 genes

gene	geneLabel		gene	geneLabel		gene	geneLabel
Q14912759	SLC22A5		Q18045382	HPSE2		Q17917202	ERBB4
Q14914243	PSAP		Q18027822	IL2RB		Q18027836	IL6R
Q14907990	SLC30A8		Q14903974	SMAD3		Q18030409	PDE4D
Q18027370	IGSF3		Q18035037	RAD50		Q18030185	NOTCH4
Q18033424	IL18R1		Q18036729	RAP1GAP2		Q18026947	HLA-DQA1

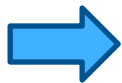
```

6  ?gene wdt:P31 wd:Q7187 ;      # gene is subclass of "gene"
7      wdt:P688 ?protein ;      # gene encodes a protein
8      rdfs:label ?geneLabel .
9  FILTER (lang(?geneLabel) = "en")
10 ?protein p:P681 ?s .          # protein's cell component statement
11     ?s ps:P681 ?cp .          # get statement value
12     FILTER NOT EXISTS {?s pq:P459 wd:Q23190881 .} # determination method is not IEA
13     ?cp wdt:P279*|wdt:P361* wd:Q14349455 .      # statement value is 'part of' or 'subclass of' membrane
14

```

Opportunistic integration

“Retrieve genes with GWAS association with any respiratory disease and gene product is localized to membrane (non-IEA) **and show causative chemical hazards**”



4 diseases / 6 chemical hazards

diseaseGALabel	exposureLabel
lung cancer	arsenic pentoxide exposure
lung cancer	HN1 exposure
lung cancer	mechlorethamine exposure
lung cancer	HN3 exposure
asthma	Phenacyl chloride exposure
pulmonary emphysema	phosgene exposure

```

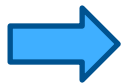
11 .cp wdt:P279 | wdt:P501 wd:Q1167512 . # statement value is part of or s
12
13 ?exposure wdt:P1542 ?diseaseGA . # something causes disease
14 ?exposure wdt:P279 wd:Q21167512 . # and that something is a chemical hazard
15
16 SERVICE wikibase:label { bd:serviceParam wikibase:language "en". }
17 }

```

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Leveraging the Disease Ontology structure

“Retrieve genes with GWAS association with any respiratory disease and gene product is localized to membrane (non-IEA)”



31 genes / 8 diseases

diseaseGALabel	gene_counts	geneList
asthma	15	SMAD3, RAP1GAP2, IL18R1, HPSE2, SLC30A8, SLC22A5, PSAP, ERBB4, HLA-DQA1, IGSF3, IL2RB, IL6R, NOTCH4, PDE4D, RAD50
chronic obstructive pulmonary disease	5	HLA-C, SFTPD, ANXA5, ANXA11, ATP2C2
lung cancer	3	TGM5, VTI1A, PHACTR2
interstitial lung disease	2	DSP, ATP11A
non-small-cell lung carcinoma	2	NALCN, DLST
nasopharynx carcinoma	2	ITGA9, TNFRSF19
adenocarcinoma of the lung	1	BTNL2
pulmonary emphysema	1	BICD1

```

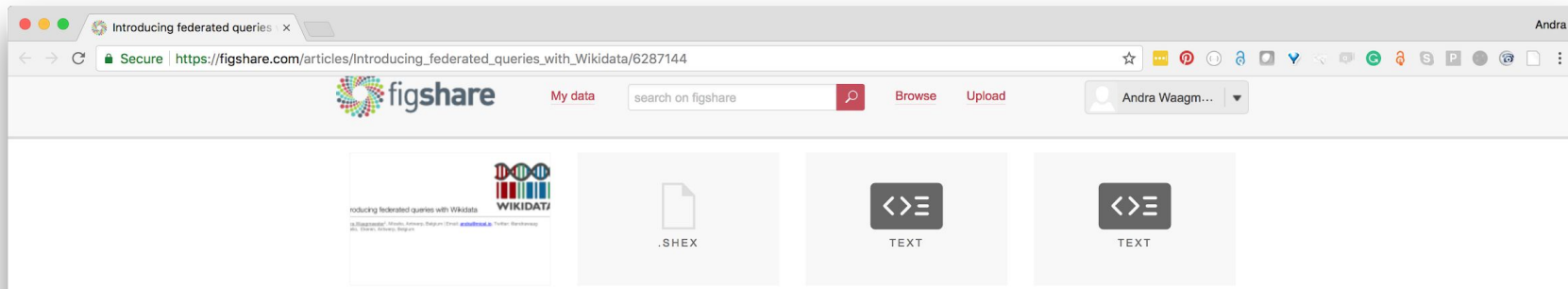
1 SELECT ?diseaseGALabel (count (DISTINCT ?geneLabel) as ?gene_counts)
2 (group_concat(DISTINCT ?geneLabel; separator=" " as ?geneList)
3   ?gene wdt:P2293 ?diseaseGA . # gene is subclass of "gene" and encodes protein
4   ?diseaseGA wdt:P279* wd:Q3286546 . # to get respiratory diseases
5
6   ?gene wdt:P31 wd:Q7187 ; wdt:P688 ?protein ; # gene is subclass of "gene" and encodes protein
7     rdfs:label ?geneLabel .
8   FILTER (lang(?geneLabel) = "en")
9   ?protein p:P681 ?s . # protein's cell component statement
10  ?s ps:P681 ?cp . # get statement value
11  FILTER NOT EXISTS {
12    ?cp ps:P681 ?cp2 .
13    ?cp2 ps:P681 ?cp3 .
14    ?cp3 ps:P681 ?cp4 .
15    ?cp4 ps:P681 ?cp5 .
16    ?cp5 ps:P681 ?cp6 .
17    ?cp6 ps:P681 ?cp7 .
18    ?cp7 ps:P681 ?cp8 .
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Andra Waagm...

	A	B	C	D
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	+ add reference
	+ add value



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ortholog	 exodeoxyribonuclease V subunit alpha CTL0288 
	found in taxon Chlamydia trachomatis 434/BU
	▼ 1 reference
	stated in Chlamydial Species Ortholog Mappings
	+ add reference

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Availability

Platforms

- www.figshare.com - Figshare main
- www.wikidata.org – Wikidata main
- Query.wikidata.org - Wikidata Query Service

github.com/SuLab/GeneWikiCentral

- github.com/SuLab/wikidataintegrator – python module for Wikidata
- github.com/SuLab/scheduled-bots – bot automation framework
- github.com/SuLab/Genewiki-ShEx – data models

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If time permits

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