

Wikidata WikiProject COVID-19 : a community effort to curate the pandemic

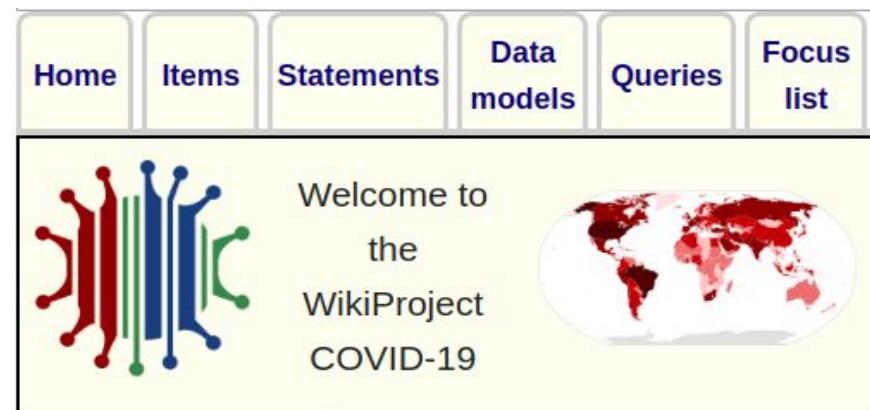


Tiago Lubiana

University of São Paulo, Brazil

ISWC Wikidata Workshop, 24 October 2022

Talking from Gamboa, Panama



Personal background

- 2014 - 2017: Bachelor's in Biomedical Sciences
- 2018 - 03/2020: Master's in bioinformatics
- 08/2020 → Starting PhD to study Wikidata

Building a biological knowledge graph via
Wikidata with a focus on the Human Cell Atlas

 Tiago Lubiana;  Helder Nakaya

Funded PhD project proposal sent to the São Paulo Research Foundation in November 2019.

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What to do between M.Sc. and Ph.D? WikiProject COVID-19!

Mid-March 2020 - reaching out to editors

Core set:

- Contributors of COVID-19 related items
- Participants of WikiProject Zika Corpus

Would you like to contribute to a WikiProject COVID-19 ? [\[edit source \]](#) [\[Add topic \]](#)

Hello,

I saw you contributed to COVID-19 ([Q84263196](#)) and I was wondering if you would be interested in helping to create a Wikidata WikiProject COVID-19.

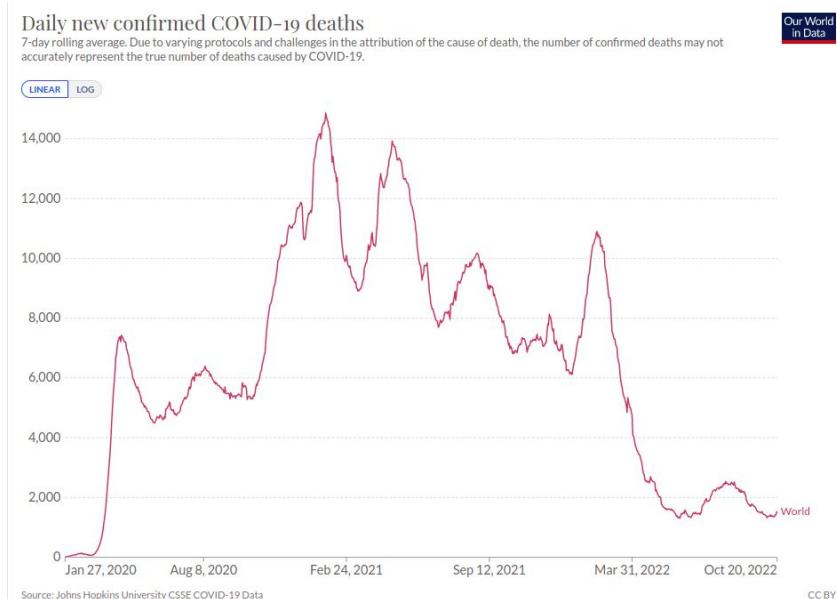
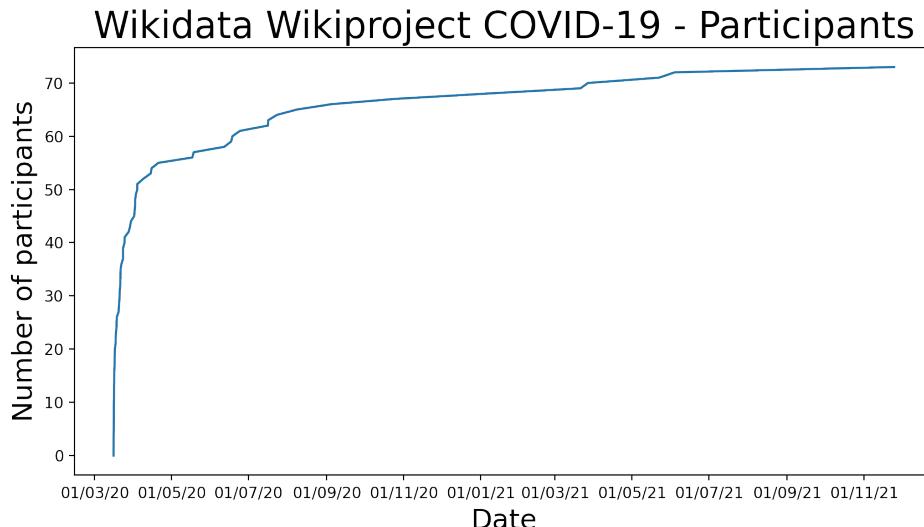
https://www.wikidata.org/wiki/User_talk:Mvnlightbae#Would_you_like_to_contribute_to_a_WikiProject_Covid-19_?

18 people joined in the first day!

- [TiagoLubiana](#) 01:35, 16 March 2020 (UTC)
[reply]
- [Daniel Mietchen](#) 01:42, 16 March 2020 (UTC)
[reply]
- [Jodi.a.schneider](#) 02:45, 16 March 2020 (UTC)
[reply]
- [Chchowmein](#) 02:45, 16 March 2020 (UTC)
[reply]
- [Dhx1](#) 03:38, 16 March 2020 (UTC)
[reply]
- [Konrad Foerstner](#) 06:02, 16 March 2020 (UTC)
[reply]
- [Netha Hussain](#) 06:19, 16 March 2020 (UTC)
[reply]
- [Bodhisattwa](#) 06:56, 16 March 2020 (UTC)
[reply]
- [Neo-Jay](#) 07:04, 16 March 2020 (UTC)
[reply]
- [John Samuel](#) 07:31, 16 March 2020 (UTC)
[reply]
- [KlaudiuMihaila](#) 07:53, 16 March 2020 (UTC)
[reply]
- [Salgo60](#) 09:11, 16 March 2020 (UTC)
[reply]
- [Andrawaaag](#) 10:12, 16 March 2020 (UTC)
[reply]
- [Whidou](#) 10:16, 16 March 2020 (UTC)
[reply]
- [Blue Raspberry](#) 15:07, 16 March 2020 (UTC)
[reply]
- [TJMSSmith](#) 16:15, 16 March 2020 (UTC)
[reply]
- [Egon Willighagen](#) 16:49, 16 March 2020 (UTC)
[reply]
- [Nehaoua](#) 20:32, 16 March 2020 (UTC)
[reply]

Initial boom of participants

- Initial lockdowns, huge uncertainty → Very high engagement

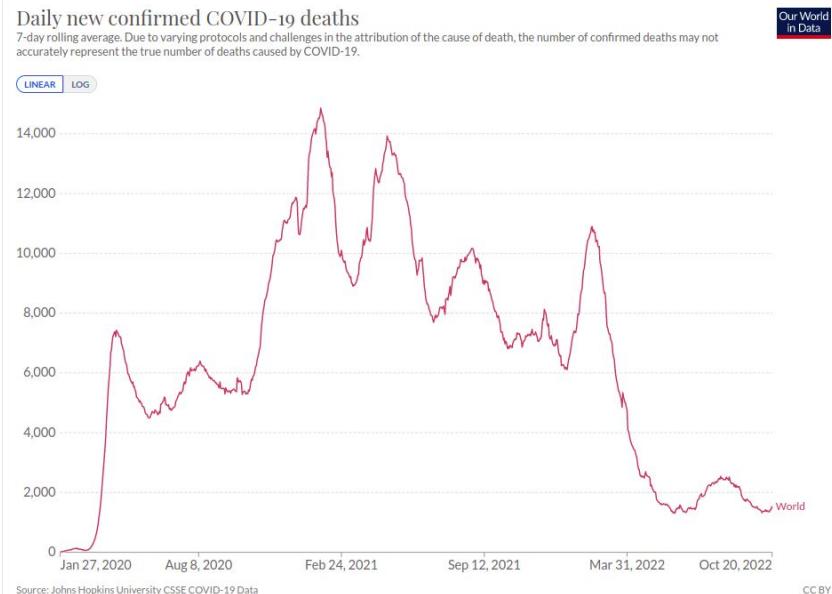


Documenting: 3-day status updates

- Curated from 24/03 to 06/28
- Proxy for activity - correlation with first wave

Archives [edit | edit source]

- 2020 03 24
- 2020 03 27
- 2020 03 30
- 2020 04 02
- 2020 04 05
- 2020 04 08
- 2020 04 11
- 2020 04 14
- 2020 04 17
- 2020 04 20
- 2020 04 23
- 2020 04 26
- 2020 04 29
- 2020 05 02
- 2020 05 05
- 2020 05 08
- 2020 05 11
- 2020 05 14
- 2020 05 17
- 2020 05 20
- 2020 05 23
- 2020 05 26
- 2020 05 29
- 2020 06 02
- 2020 06 05
- 2020 06 08
- 2020 06 11
- 2020 06 14
- 2020 06 18
- 2020 06 24
- 2020 06 28
- Next
- Wikimedia Hacka



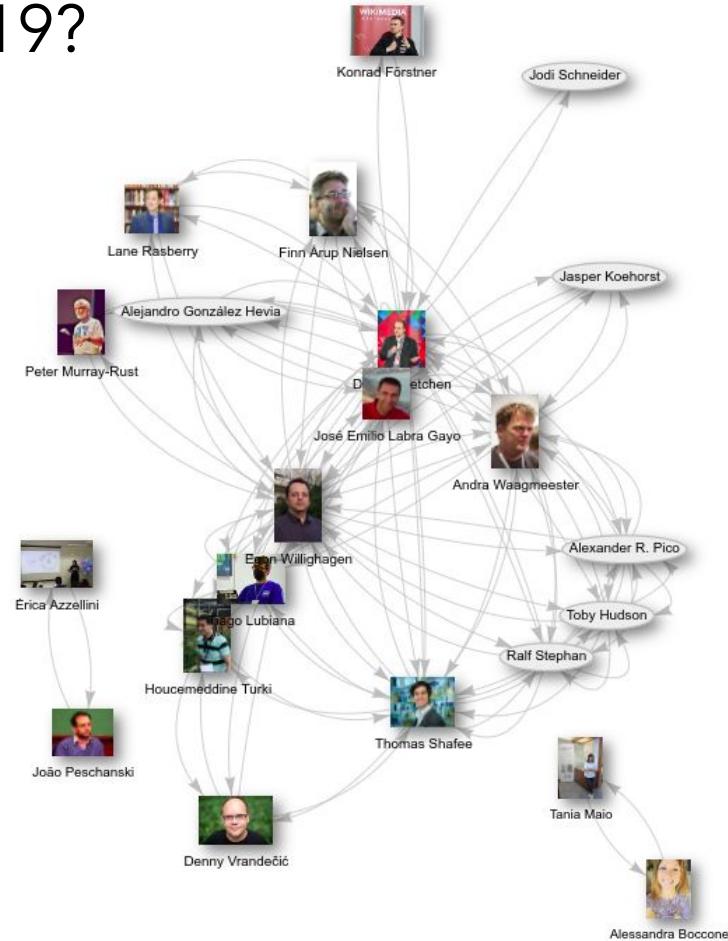
https://www.wikidata.org/wiki/Wikidata:WikiProject_COVID-19>Status_updates

Who were the people in WP COVID19?



Map: <https://w.wiki/5p9D>

Network: <https://scholia.toolforge.org/event/Q114647284>



COVID-19-related properties

Epidemiology:

- [wd:P1120](#) - number of deaths
- [wd:P1603](#) - number of cases
- [wd:P1846](#) - distribution map
- [wd:P8010](#) - number of recoveries (new)
- [wd:P8011](#) - number of medical tests (new)
- [wd:P8049](#) - number of hospitalized cases (new)
- [wd:P8204](#) - tabular case data (new)
- [wd:P9107](#) - number of vaccinations (new)

and more!

Viral biology:

- [wd:P3492](#) - basic reproduction number
- [wd:P8339](#) - entry receptor (new)
- [wd:P9632](#) - PANGO lineage code (new)

Bibliography:

- [wd:P8150](#) - COVIDWHO ID (new)

COVID-19 Data Models

- Data models/COVID-19 apps
- Data models/COVID-19 death
- *Data models/Contact tracing apps*
- Data models/Curfews and lockdowns
- Data models/Effects and impacts
- Data models/Emergency measures
- Data models/Hospitals
- Data models/New properties
- Data models/Outbreaks
- Data models/Peer-reviewed articles
- Data models/Scientists
- Data models/Template
- Data models/Tests
- Data models/Viral genes
- Data models/Virus strains

Properties [edit | edit source]

Generic properties [edit | edit source]

Title	ID	Data type
publisher	P123	Item
creator	P170	Item

```
PREFIX xsd: <http://www.w3.org/2001/XMLSchema#>
PREFIX wdt: <http://www.wikidata.org/prop/direct/>
PREFIX wd: <http://www.wikidata.org/entity/>

#Reference: https://www.wikidata.org/wiki/Wikidata:WikiProject_COVID-19/Data_models/COVID-19_apps

start = @<contacttracingapp>

<contacttracingapp> EXTRA wdt:P31 {
    wdt:P31 [ wd:Q89288125 ] ;# instance of a COVID-19 contact tracing application
    wdt:P1476 LITERAL* ;#title
    wdt:P366 .* ;#use
    wdt:P123 .{1} ;#publisher
    wdt:P178 .* ;#developers
    wdt:P495 .* ;#country of origin
    wdt:P306 .* ;#operating system
    wdt:P856 .* ;#official website
    wdt:P577 .? ;#publication date
    wdt:P5008 .* ;#on focus list of Wikimedia project
}
```

Modelling of “pandemic in place” items

Manual update → Bot

COVID-19 pandemic in Brazil (Q86597695)

ongoing coronavirus pandemic in Brazil

The screenshot shows a knowledge graph interface with the following data points:

- number of deaths (P1120)**: 687,423 (last updated 19 October 2022, stated in Q87456354, reference URL <https://github.com/CSSEGISandData/COVID-19>, retrieved 21 October 2022)
- point in time (P585)**: 19 October 2022
- reference URL (P854)**: <https://github.com/CSSEGISandData/COVID-19>
- retrieved (P813)**: 21 October 2022

Modelling of “pandemic in place” items

- Manually update items x use a bot
- Bloated items x delete historical data x tabular case data
 - Still open!



[Minh Nguyễn](#)
[User:Mxn](#)

tabular case data

Data:COVID-19 (STCenter)/IR/Q794.tab

Fonte: Wikimedia Commons

COVID-19 cases in Iran

P585_date	P1603_confirmed	P1120_deaths	P8010_recovered
texto	número	número	número
Date	Confirmed	Deaths	Recovered
id	89182	89182	89182
2020-01-22	0	0	0

Modelling of “pandemic in place” items

- Pandemic in Brazil 21 October 2022
Using Wikidata

ptwiki, frwiki, eswiki, itwiki...

Estatísticas globais	
Casos confirmados	34 776 259 ^[1]
Mortes	687 483

(overwritten in the Brazil page)

Bilan	
Cas confirmés	34 771 320 (19 octobre 2022) ¹
Cas soignés	6 707 781 (30 décembre 2020)
Morts	687 423 (19 octobre 2022) ¹
modifier - modifier le code - modifier Wikidata	

Datos del contagio	
Casos confirmados	34 771 320
Fallecidos	687 423
Casos recuperados	6 707 781
Vacunaciones	498 222 253
 Aviso médico	
[editar datos en Wikidata]	

Dati statisticci ^[1]	
Numero di casi	34 771 320 (19 ottobre 2022)
Numero di guariti	14 964 631 (1º giugno 2021)
Numero di morti	687 423 (19 ottobre 2022)
Sito istituzionale	
Modifica dati su Wikidata · Manuale	

Not using Wikidata
newiki, ruwiki, idwiki...

Oorsprong	Wuhan, China
Bevestigde besmettingen	26.536.597 ^[1]
Overleden	632.289 ^[1]
https://coronavirus.saude.gov.br/	
Portaal	 Geneeskunde

Kasus terkonfirmasi	11,439,558 ^[1]
Kasus dirawat	1,125,509 ^[1]
Kasus sembuh	10,036,947 ^[1]
Kematian	277,102 ^[1]
Situs web resmi	
coronavirus.saude.gov.br/	

(viwiki and enwiki have local bots)

Modelling of “pandemic in place” items

- Sometimes overwriting Wikidata leads to mistakes

Dati statistici ^[1]	
Numero di casi	16 547 674 ^[2] (1° giugno 2021)
Numero di guariti	14 964 631 (1° giugno 2021)
Numero di morti	462 966 (1° giugno 2021)
Sito istituzionale ↗	
Modifica dati su Wikidata · Manuale	



Dati statistici ^[1]	
Numero di casi	34 771 320 (19 ottobre 2022)
Numero di guariti	14 964 631 (1° giugno 2021)
Numero di morti	687 423 (19 ottobre 2022)
Sito istituzionale ↗	
Modifica dati su Wikidata · Manuale	

Modelling of “pandemic in place” items

- CovidDatahubBot running from my personal computer (!!)
- If my internet connection was down, the bot stopped working

Now on toolforge, thanks Chico Venancio



Donatas Dabrevolskas, [CC-BY-SA](#)

Beyond Wikidata:

- Hackathons (Wikidata Lab XXII, BioHackathon Europe 2020)
- 6 group calls on Google Meet
- Active communication on Twitter
- Many scientific publications

← Wikidata Wikiproject COVID-19
84 Tweets



Seguir

Wikidata Wikiproject COVID-19
@WikidataCOVID19

Twitter account for the Wikidata WikiProject COVID-19!
Check the project: [wikidata.org/wiki/Wikidata:...](https://www.wikidata.org/wiki/Wikidata:WikiProject_COVID-19)
(account run by @lubianat)

calendar icon Ingressou em junho de 2020

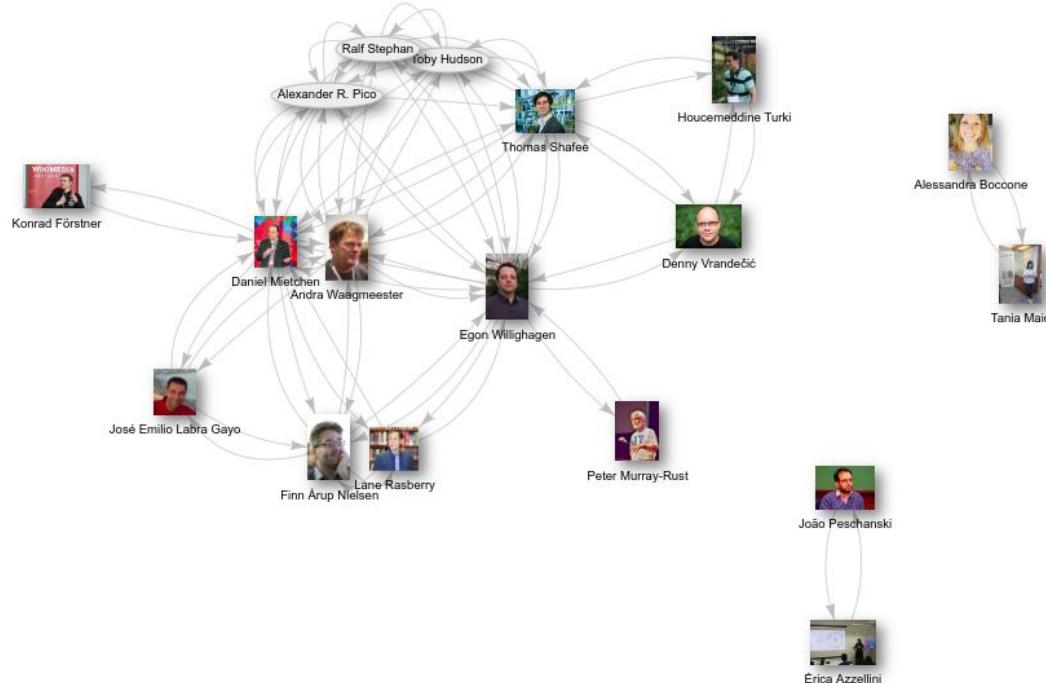
173 Seguindo 393 Seguidores

https://www.wikidata.org/wiki/Wikidata:WikiProject_COVID-19/Project_meeting/Archive

https://etherpad.wikimedia.org/p/open_meeting_COVID-19_20%2F04

Scientific collaborations *before* the WikiProject

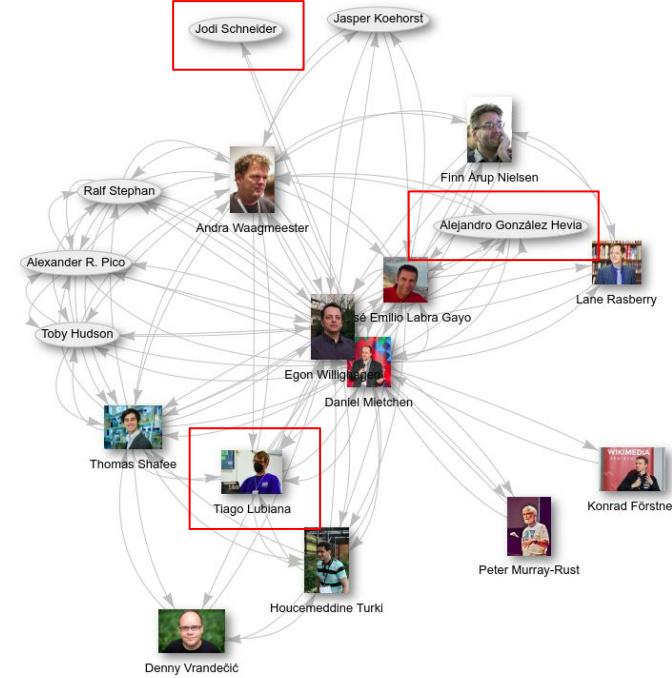
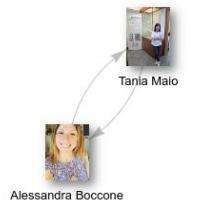
- WikiProject members were publishing together before the event!



[SPARQL query](#)

Scientific collaborations *after* the Wikiproject

- New Wikidatians added to the mix
- New collaborations inside the network



[SPARQL query](#)

But that shows only a tiny bit! Tales of colabs:

WP COVID-19 : Reviving the Cellosaurus Bot

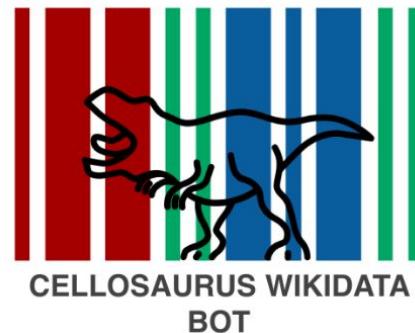
Expsys

Cellosaurus

Cellosaurus - SARS-CoV-2 relevant information

Table of contents

- (A) Cell lines that can be used to grow SARS-CoV-2
- (B) Engineered cell lines useful for SARS-CoV-2 research
- (C) Cell lines shown to be not suitable to grow SARS-CoV-2
- (D) Cell lines used in COVID-19 vaccine production
- (E) Hybridomas producing mAb against SARS-CoV-2 proteins



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Amos Bairoch, creator
of SwissProt and
co-founder of UniProt

<https://www.wikidata.org/wiki/Topic:Vky3mdxgv0ye0j6p>

<https://github.com/calipho-sib/cellosaurus-wikidata-bot>

But that shows only a tiny bit! Tales of colabs: Brazilian connections in Wikidata Lab COVID-19



WIKIDATA LAB XXII
WIKIPROJETO COVID-19

Este treinamento pretende compartilhar recursos e capacidades para a integração do Wikidata com outros projetos Wikimedia, em especial à Wikipédia.

Neste evento, parte da série Wikidata Lab, haverá uma apresentação e uma sequência de atividades práticas sobre como podemos atuar no Wikiprojeto COVID-19 e cabrará a justificativa do projeto, os desafios da modelagem da informação, a automação da alimentação de dados e as possibilidades de tradução.

O evento é voltado à capacitação da comunidade de editores dos projetos Wikimedia. A coordenação do treinamento será executada pelo wikimedista Tiago Lubiana, em inglês.

O evento será online. Por favor, se tiver interesse em participar do evento, faça seu cadastro na página de inscrição. Não há custo de inscrição. Vagas ilimitadas.

Local: Online
Data: 14/04/2020 (Terça-feira) das 9:30 às 16:30

Organização
WMB
Wiki Movimento Brasil

Site do evento




João Vitor Ferreira Cavalcante

Wikidata for 5-star Linked Open Databases: a case study of PanglaoDB

Format: Pre-recorded with live Q&A

Moderator(s): Robert Hoehndorf

Tiago Lubiana, University of São Paulo, Brazil
João Vitor Ferreira Cavalcante, Federal University of Rio Grande do Norte, Brazil

Presentation Overview: [Show](#)

https://www.iscb.org/cms_addon/conferences/ismbeccb2021/tracks/bio-ontologies

https://pt.wikipedia.org/wiki/Wikip%C3%A9dia:Edit-a-thon/Atividades_em_portugu%C3%AAs/Wikidata_Lab_XXII

But that shows only a tiny bit! Tales of colabs:



COVID-19 Biohackathon

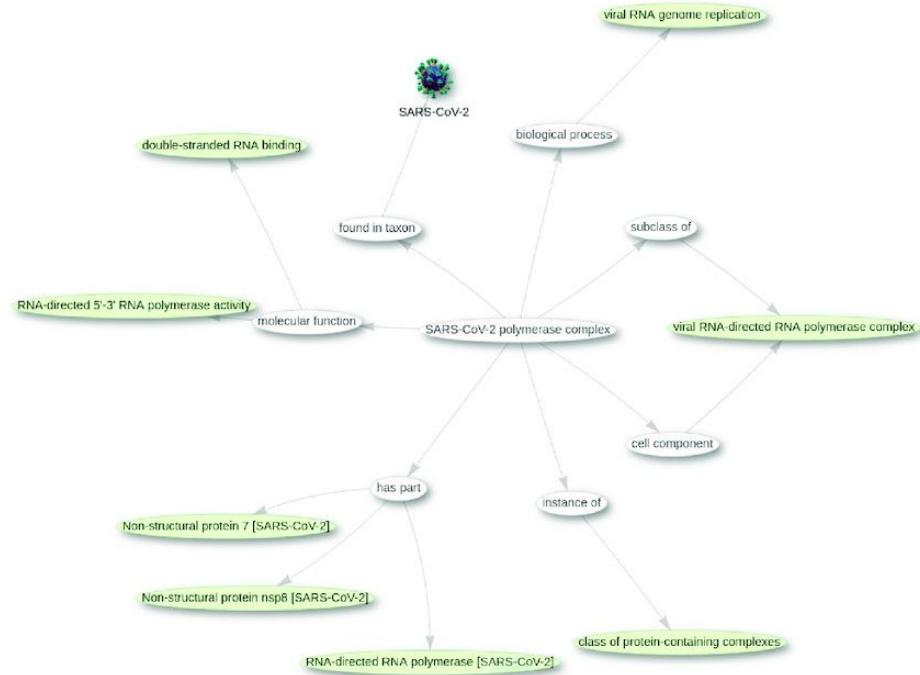


Birgit Meldal

Complex Portal 2022: new curation frontiers

Birgit H M Meldal, Livia Perfetto, Colin Combe, Tiago Lubiana,
João Vitor Ferreira Cavalcante, Hema Bye-A-Jee, Andra Waagmeester, Noemi del-Toro,
Anjali Shrivastava, Elisabeth Barrera, Edith Wong, Bernhard Mlecnik, Gabriela Bindea,
Kalpana Panneerselvam, Egon Willighagen, Juri Rappsilber, Pablo Porras,
Henning Hermjakob , Sandra Orchard

Nucleic Acids Research, Volume 50, Issue D1, 7 January 2022, Pages D578–D586,



<https://academic.oup.com/nar/article/50/D1/D578/6414048>

Publications related to the WikiProject COVID-19



Representing COVID-19 information in collaborative knowledge graphs: The case of Wikidata

[Cite](#)

Article type: Research Article

Authors: Turki, Houcemeddine^{a, b}  | Hadj Taieb, Mohamed Ali^b  | Shafee, Thomas^c  | Lubiana, Tiago^d  | Jemielniak, Dariusz^e  | Aouicha, Mohamed Ben^f  | Labra Gayo, Jose Emilio^g  | Youngstrom, Eric A.^h  | Banat, Mus'abⁱ  | Das, Diptanshu^{j, k}  | Mietchen, Daniel^{l, m, *}  | on behalf of WikiProject COVID-19; **

[Houcemeddine Turki](#)
[User:Csisc](#)

<https://www.semantic-web-journal.net/system/files/swj2736.pdf>

Publications related to the WikiProject COVID-19

Waagmeester et al. *BMC Biology* (2021) 19:12
<https://doi.org/10.1186/s12915-020-00940-y>

METHODOLOGY ARTICLE

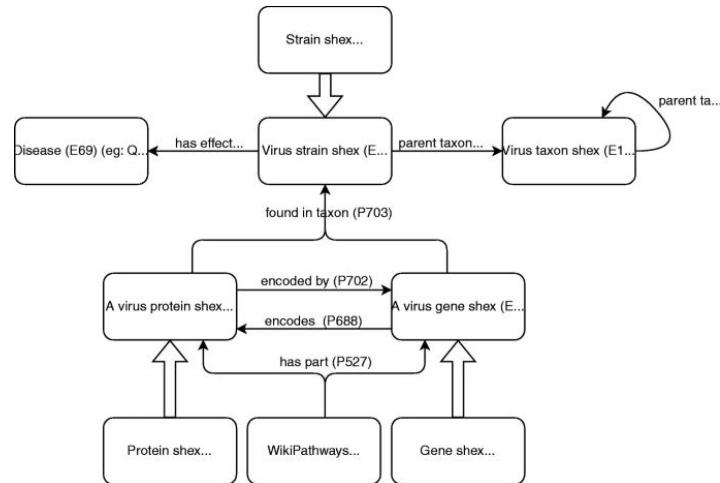
Open Access

A protocol for adding knowledge to Wikidata: aligning resources on human coronaviruses

Andra Waagmeester¹ , Egon L. Willighagen² , Andrew I. Su³ , Martina Kutmon^{2,4} , Jose Emilio Labra Gayo⁵ , Daniel Fernández-Álvarez⁵ , Quentin Groom⁶ , Peter J. Schaap⁷ , Lisa M. Verhagen⁸  and Jasper J. Koehorst^{7*} 



BMC Biology



<https://bmcbiol.biomedcentral.com/articles/10.1186/s12915-020-00940-y>

Publications related to the WikiProject COVID-19



Using logical constraints to validate statistical information about disease outbreaks in collaborative knowledge graphs: the case of COVID-19 epidemiology in Wikidata

Houcemeddine Turki¹, Dariusz Jemielniak², Mohamed A. Hadj Taieb¹, Jose E. Labra Gayo³, Mohamed Ben Aouicha¹, Mus'ab Banat⁴, Thomas Shafee^{5,6}, Eric Prud'hommeaux⁷, Tiago Lubiana⁸, Diptanshu Das^{9,10} and Daniel Mietchen^{11,12,13,14}



Knowledge graph

Validates

ShEx - SHACL

Performs

*Consistency
rules*

*Embeds
Infers*

Performs

Validates

*Property
statements*

Uso de Wikidata y Wikipedia para la generación asistida de un vocabulario estructurado multilingüe sobre la pandemia de Covid-19

Using Wikidata and Wikipedia for assisted generation of a structured multilingual vocabulary about the Covid-19 pandemic

Tomás Saorín; Juan-Antonio Pastor-Sánchez; María-José Baños-Moreno



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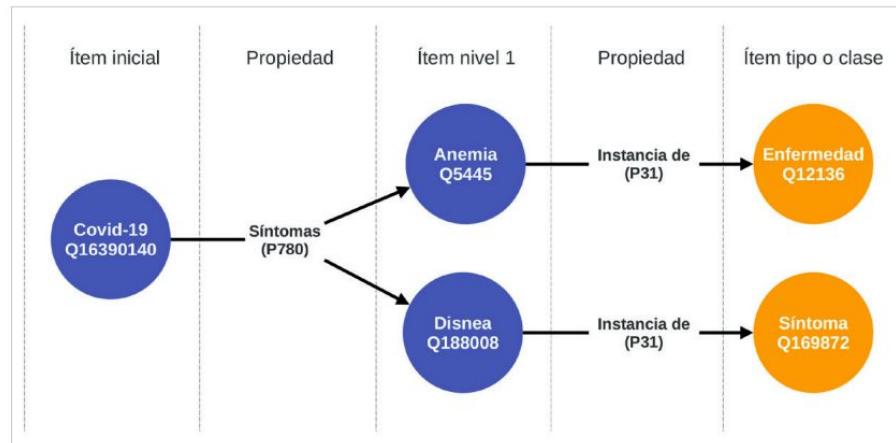


Figura 5. Esquematización de la tipología de entidades relacionadas.

Wikidata Queries around the SARS-CoV-2 virus and pandemic

© 2020-2022 Addshore, Daniel Mietchen, Egon Willighagen

DOI [10.5281/zenodo.3977414](https://doi.org/10.5281/zenodo.3977414)



Egon Willighagen, Addshore, Daniel Mietchen,



[en ja nl es pt]

Authors and translators

- Addshore
- Carolina Prado
- Daniel Mietchen
- Egon Willighagen
- Marvin Martens
- Sharon Prado
- Tiago Lubiana
- Yayamamo

Wikidata Queries around the SARS-CoV-2 virus and pandemic

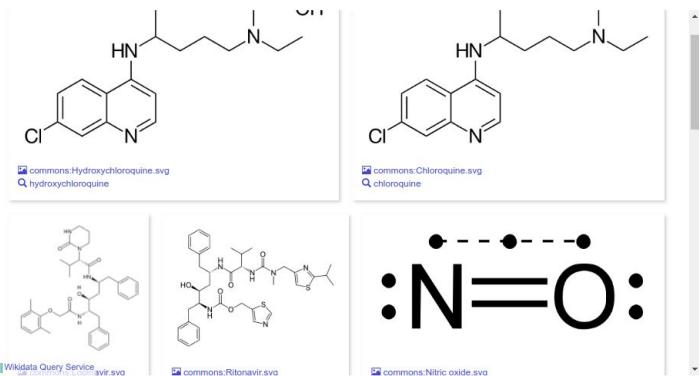
© 2020-2022 Addshore, Daniel Mietchen, Egon Willighagen

DOI [10.5281/zenodo.3977414](https://doi.org/10.5281/zenodo.3977414)

Snippets:

Drug repurposing

The Section 8.3 already listed an overview of clinical trials. It gives an idea of what symptoms people are worried about. It also gives insight in what drugs are studied for repurposing. Some of these have received a lot of attention, others less so. They look like this:



Variants

Multiple variants of the virus genome made it into the international news. Originally these were known as a Danish variant, a South-African variant, and a South-England variant. But the variants were only first discovered there, and the variant is not caused by anything related to the region. The following variants are listed in Wikidata, and includes the PANGO lineage code:

variant	pango
SARS-CoV-2 Lineage BA.1.1 (edit)	BA.1.1
SARS-CoV-2 Lineage BA.2.75 (edit)	BA.2.75
SARS-CoV-2 Lineage BA.2.75.2 (edit)	BA.2.75.2
Cluster 5 (edit)	
SARS-CoV-2 Lineage BF.7 (edit)	BF.7
Lineage B.1.427 (edit)	B.1.427
Lineage B.1.616 (edit)	B.1.616

The following query lists the number of clinical trials by intervention:

SPARQL [sparql/clinicalTrialsByIntervention.rq](https://sparql.wmflabs.org/clinicalTrialsByIntervention.rq) (run, edit)

Wikidata Queries around the SARS-CoV-2 virus and pandemic

© 2020-2022 Addshore, Daniel Mietchen, Egon Willighagen

DOI [10.5281/zenodo.3977414](https://doi.org/10.5281/zenodo.3977414)

Snippets:

Genes

The RNA of SARS-CoV-2 has been sequenced. Therefore, the open reading frames are known and identified. We can query for the gene information in Wikidata with this query:

[SPARQL](#) [sparql/virusGenes.rq](#) (run, edit)

```
SELECT ?gene ?geneLabel ?ncbigene WHERE {
  ?gene wdt:P703 wd:Q82069695 ; wdt:P31 wd:Q7187 .
  OPTIONAL { ?gene wdt:P351 ?ncbigene }
  SERVICE wikibase:label { bd:serviceParam wikibase:language "en,en". }
}
```

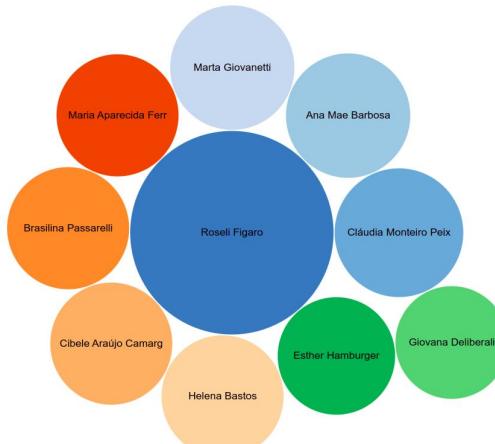
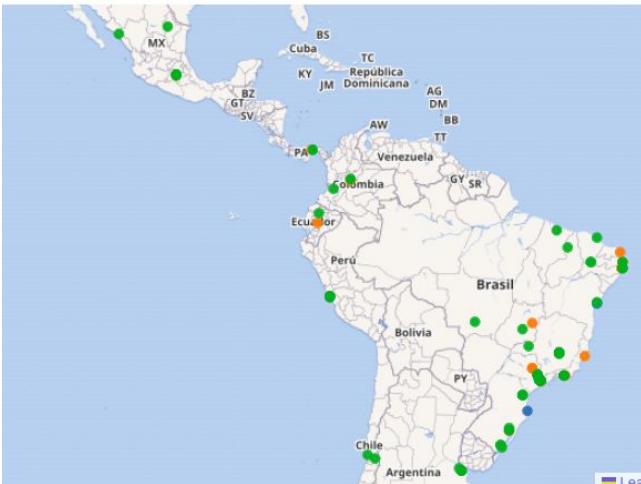
Which gives us these genes:

gene	ncbigene
surface glycoprotein (edit)	43740568
ORF1a polyprotein;ORF1ab polyprotein (edit)	43740578
ORF3a protein-encoding gene (edit)	43740569
envelope protein (edit)	43740570

And much more! Some resources:

- Scholia-related and bibliographic catalogs
- E.g. works on COVID-19 by latin-american women:

<https://searchy.toolforge.org/search/Q84263196?gender=Q6581072®ion=Q12585>



And much more! Some resources:

Wikidata-based Dashboards

[edit | edit source]

- External use of Wikidata data and queries - Tunisia
- External use of Wikidata data and queries - India
- San Francisco Bay Area medical cases by county
- San Francisco Bay Area case rate map
- COVIWD: COVID19 Wikidata Dashboard
- PAWS dashboard of cases and people affected, including demography

https://www.wikidata.org/wiki/Wikidata:WikiProject_COVID-19

Take-home messages

- Take the time to manage the crowd
 - Bring the people together

Take-home messages

- Take the time to manage the crowd
 - Bring the people together
- Document and publicize the result
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Take-home messages

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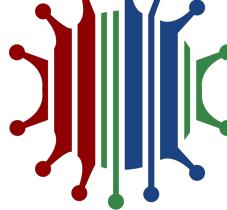
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- Use the hype to push Wikidata forward
 - Interest might fade quickly, so move fast to contribute the most
- Have fun, the WikiProjects never end

Thank you!



Helder Nakaya Lab (CSBL)
São Paulo, Brazil



The participants listed below can be notified using the following template in discussions:

(Wikidata project) (COVID-19)

- Sj 23/15, 3 April 2020 (UTC)
[reply]
- EnzaZelotti 12/20, 14 April 2020 (UTC)
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- Admire 00:07, 15 April 2020 (UTC)
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- LaMereville 16/26, 20 April 2020 (UTC)
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- Tagotulahina 01/35, 16 March 2020 (UTC)
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- Andi.schaefer 02/45, 16 March 2020 (UTC)
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- Chthosmenin 02/45, 16 March 2020 (UTC)
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- Omer 03/36, 16 March 2020 (UTC)
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- Konrad Pfeiffer 06/02, 16 March 2020 (UTC)
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- Netha Hussain 06/19, 16 March 2020 (UTC)
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- Redfishette 06/96, 16 March 2020 (UTC)
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- Neo-Jay 07/44, 16 March 2020 (UTC)
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- John Samuel 07/31, 16 March 2020 (UTC)
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- PiaMachado 07/33, 16 March 2020 (UTC)
[reply]
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- Wikidog 10/15, 16 March 2020 (UTC)
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- Denny 16/27, 17 March 2020 (UTC)
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- Kellay 02/45, 17 March 2020 (UTC)
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- Denry 16/27, 17 March 2020 (UTC)
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- Kellay 16/56, 17 March 2020 (UTC)
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- Joaole 22/47, 17 March 2020 (UTC)
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- Jokoneh 14/27, 21 March 2020 (UTC)
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- Novane 14/56, 23 March 2020 (UTC)
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- Adilson 15/56, 23 March 2020 (UTC)
[reply]
- Evolution and evolution 0/23, 20 March 2020 (UTC)
[reply]
- Zeddy 00/00, 20 March 2020 (UTC)
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- Soraia Ávila (Soraianinha) 07/05, 20 March 2020 (UTC)
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- Memoriaus 15/30, 20 March 2020 (UTC)
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- AlexanderPou 23/34, 27 March 2020 (UTC)
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- Weston Bennet 12/24, 22 May 2021 (UTC)
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- RemcoHoogendoorn 22/04, 3 June 2021 (UTC)
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- GALAXY 5/7 — (talk) 09:36, 14 October 2022 (UTC)
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https://www.wikidata.org/wiki/Wikidata:WikiProject_COVID-19

Wikidata WikiProject COVID-19 : a community effort to curate the pandemic



Tiago Lubiana

University of São Paulo, Brazil

ISWC Wikidata Workshop, 24 October 2022

I'm on Gamboa, Panama

