



**GHENT
UNIVERSITY**

GHENT UNIVERSITY LIBRARY OPEN SCIENCE TEAM

OPEN SCIENCE VERSTERKT ONDERZOEK MEER DAN OOIT

Inge Van Nieuwerburgh, Emilie Hermans - COVID-19 infecteert I&D – 21 oktober 2021

FACILITATING OPEN KNOWLEDGE CREATION



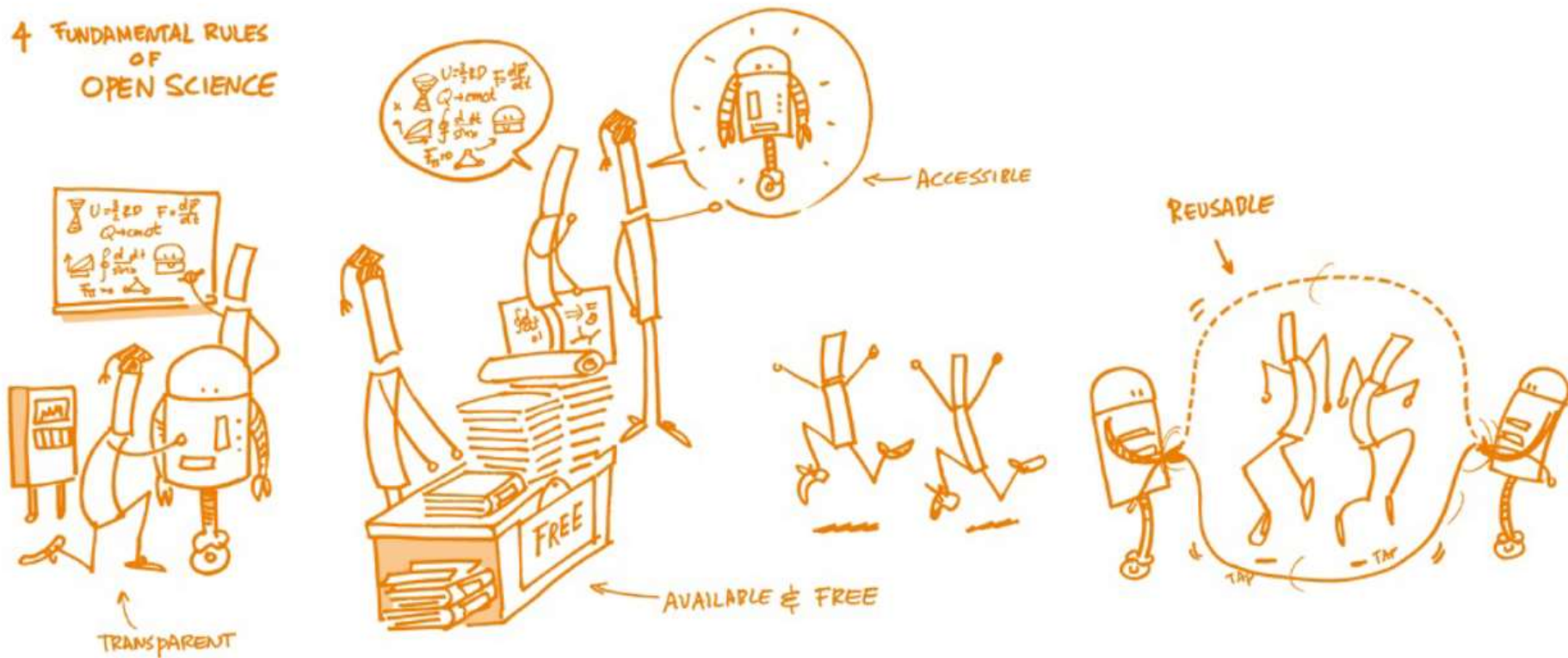
Onder meer gebaseerd op “Hermans, Emilie, and Inge Van Nieuwerburgh. “How Open Science Elevates Collaboration in Covid-19 Research : The Road to Open Science.” *CAHIERS DE LA DOCUMENTATION = BLADEN VOOR DE DOCUMENTATIE*, no. 3–4, 2020, pp. 167–71. <http://hdl.handle.net/1854/LU-8691636>

INFORMATIEDILEMMA

Information overload
Vs
Open science

OPEN SCIENCE

4 FUNDAMENTAL RULES OF OPEN SCIENCE



EVERYONE ON THE ROAD TO OPEN SCIENCE



OPEN EDUCATIONAL
RESOURCES



RRI is about: including all actors, and considering specific key issues and process dimensions





“I do not belong to the academic world, but I would like to do research all the same.”



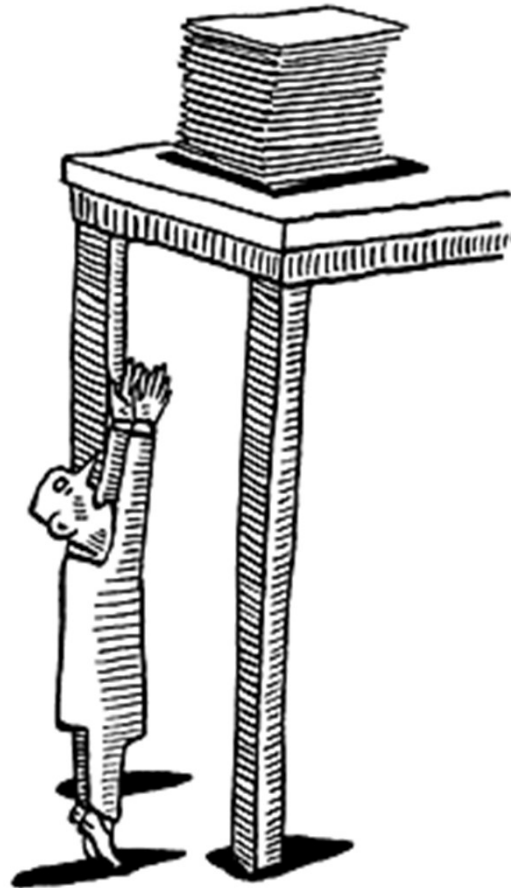
Julian, passionate about sciences and new technologies

#DIYBio
#hackerspace
#Openlab

Sounds familiar?



Source: Hack your PHD <http://hackyourphd.org/en/flyers/>



ENKELE TRENDS

PRE-PRINTS

U brak nog met een tweede taboe: u trekt zo snel mogelijk naar de media en wacht niet af tot een analyse in een vaktijdschrift is gepubliceerd.

‘We analyseren een extreem weerfenomeen in realtime en wachten niet op de peerreview, de gebruikelijke en belangrijke kwaliteitscontrole door collega-wetenschappers. Je kan dat arrogant noemen. En als ik het niet zelf zou doen, zou ik ook heel sceptisch zijn over die werkwijze.’

Waarom moeten wij dan vertrouwen hebben in uw analyses?

‘De methodiek achter onze analyses is niet nieuw en is onderworpen aan alle nodige kwaliteitstoetsen. Onze snelheid compenseren we bovendien door telkens heel transparant te zijn. We nodigen iedereen uit om met onze data alles na te rekenen.’

‘We publiceren onze resultaten ook nog altijd in vaktijdschriften en daarvoor moeten ze de peerreview doorstaan. Tot dusver hebben we nog geen enkele keer de resultaten en conclusies moeten bijstellen die we hadden gepresenteerd. Juist omdat veel klimaatwetenschappers sceptisch waren over ons werk – en nog altijd zijn – liggen onze studies steeds onder het vergrootglas. Er zijn volgens mij geen andere studies in de klimaatwetenschap die even streng worden beoordeeld.’

Interview Friederike Otto door Maxie Eckert,
De Standaard zat. 16 okt. 2021,
https://www.standaard.be/cnt/dmf20211015_97573912

FACT CHECK IN DE JOURNALISTIEK

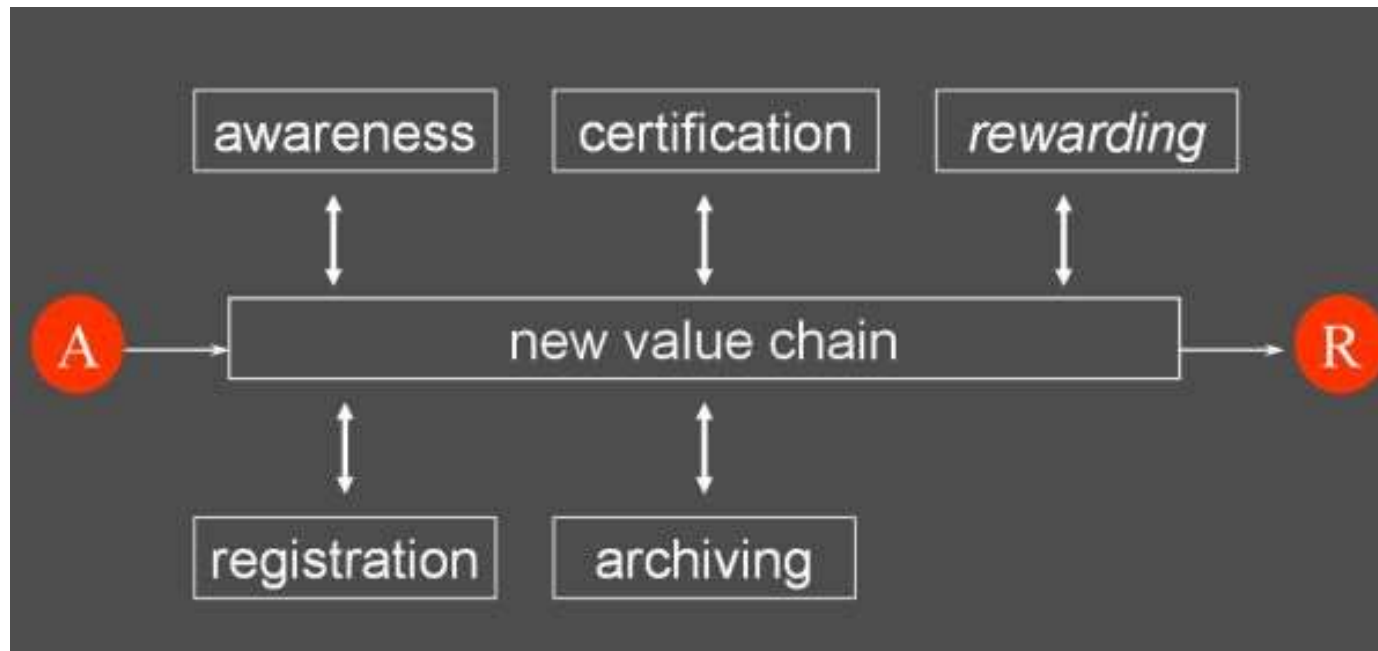
Meer en meer journalisten gebruiken ook pre-prints in hun artikels.

⇒ Nood aan training : wat zijn preprints? Hoe ze te interpreteren? Hoe omgaan met de transparantie van het proces?

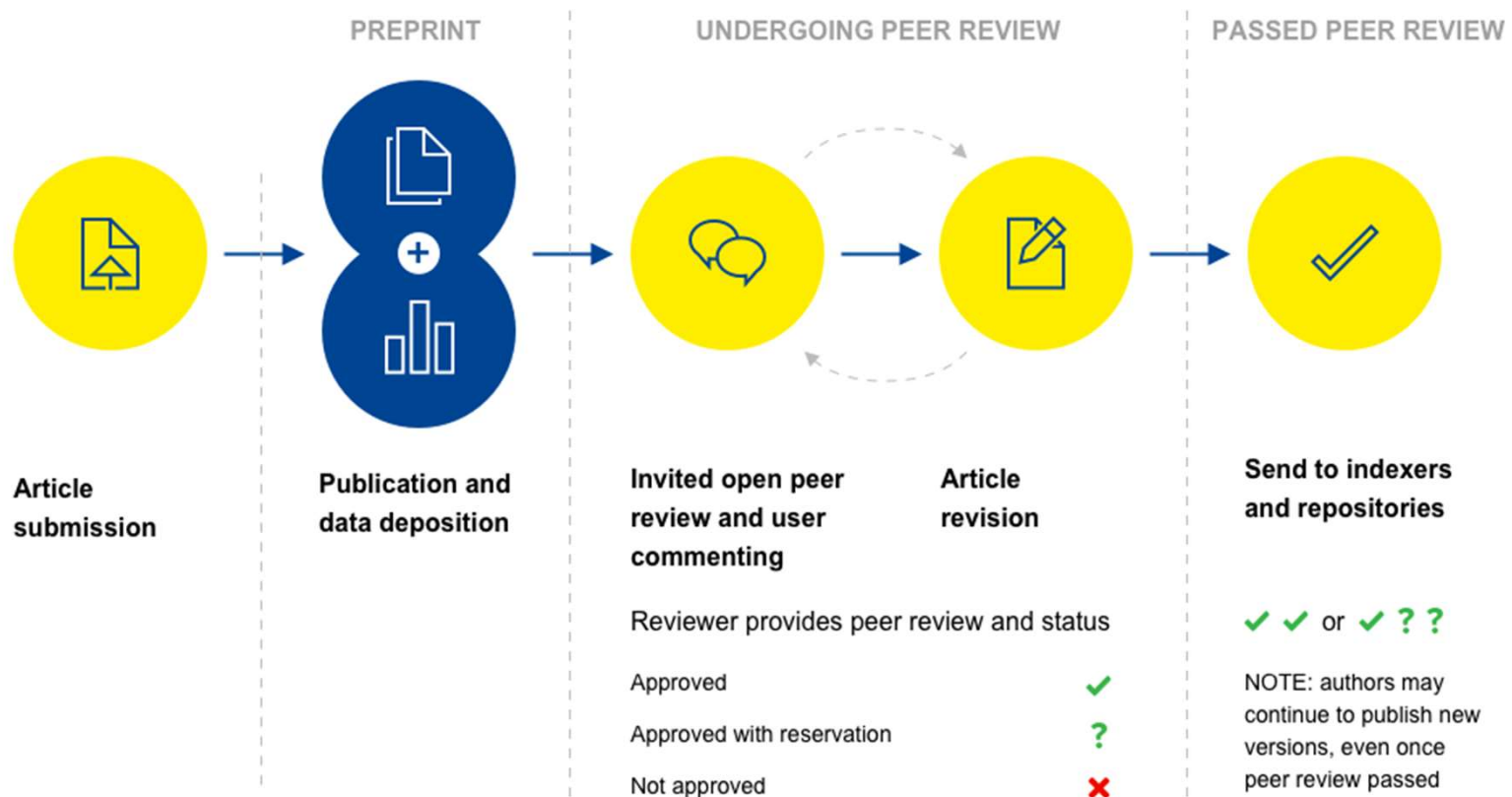
⇒ Ondertussen lijkt het een vertrouwd begrip

OPEN PEER REVIEW

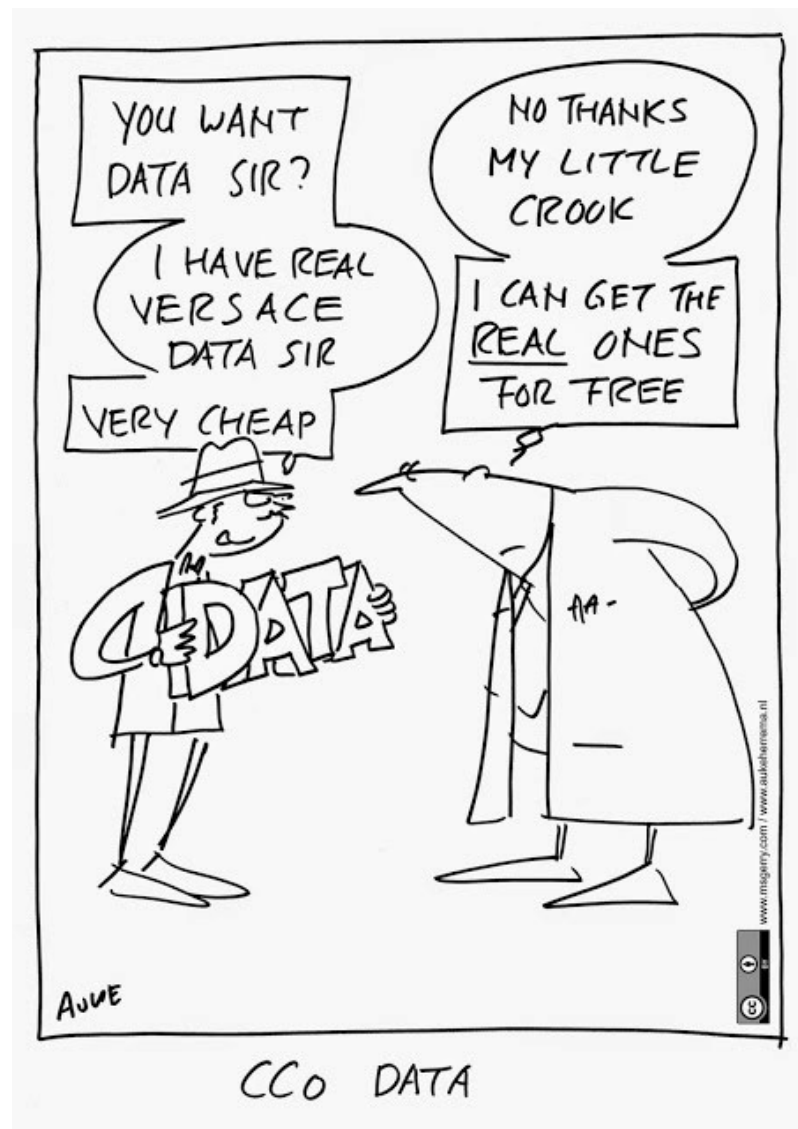
Deconstructie van het klassieke publicatieproces



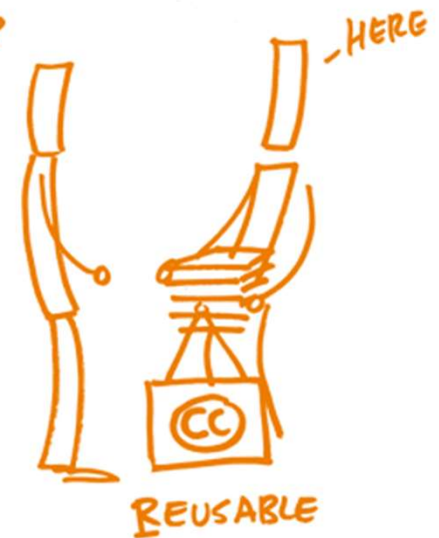
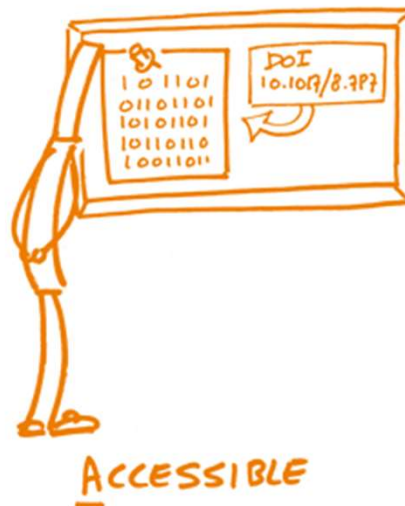
ORE: PUBLISHING VENUE FOR EU RESEARCH



OPEN DATA



FAIR DATA PRINCIPLES



<https://book.fosteropenscience.eu/>

DEGREES OF SHARING

“As open as possible, as closed as necessary”



“Can be freely used,
modified & shared by
anyone for any
purpose”

<http://opendefinition.org>

Limits on who can
access & use data, how,
or for what purpose

- only certain (types
of) users
- only certain types
of use
- ...

Under embargo
Unable to share

OPEN LICENTIES

Meteen duidelijk welke toestemming wordt verleend
Maar ook: machine-leesbaar

E.g. creative commons

- Sinds 2002
- Op voorhand toestemming
- Niet-exclusieve licentie
- Enkel economische rechten, niet de morele rechten
- Er kunnen voorwaarden aan verbonden zijn

<http://creativecommons.org/worldwide/be/>

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3

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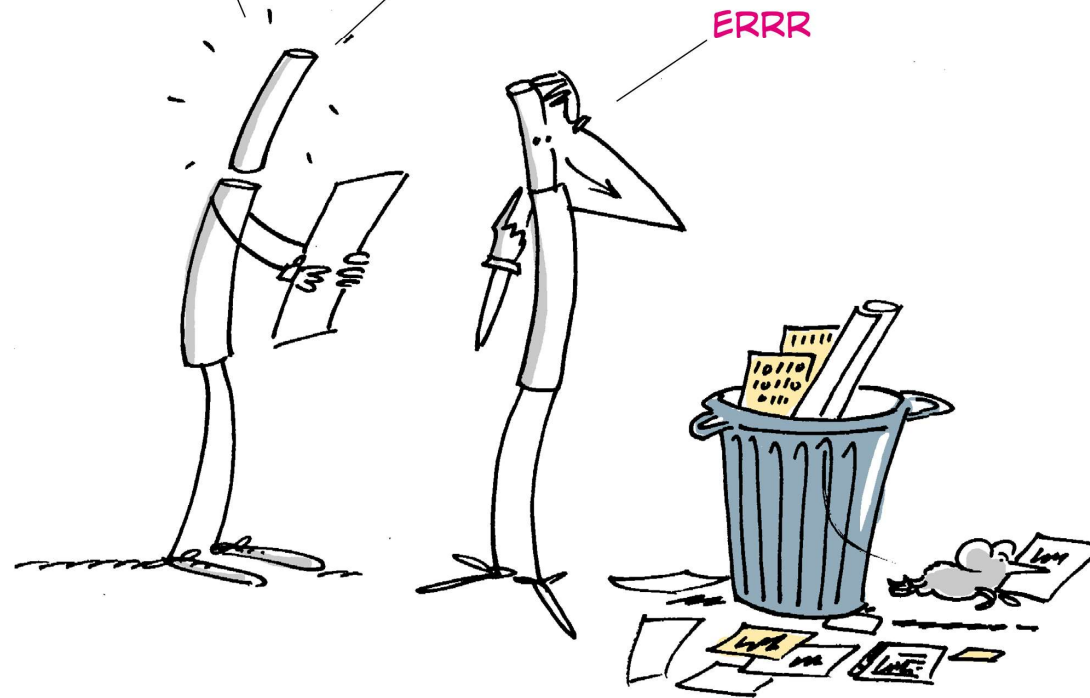
The more information connected to your ORCID record, the more you'll benefit from sharing your iD - so give the organizations you trust permission to update your record as well as adding your affiliations, emails, other names you're known by, and more.

DATA MANAGEMENT

WOOW THAT IS
FANTASTIC!
CAN I GET THE
RAW DATA?

YOU DO HAVE
A COPY?

ERRR



COMBINEER BRONNEN

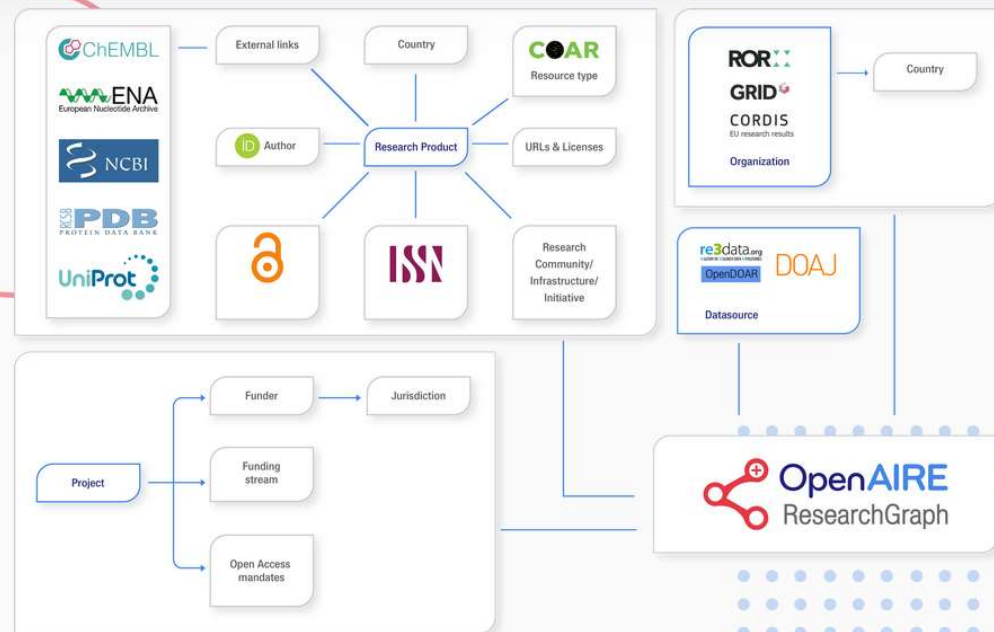


ABOUT

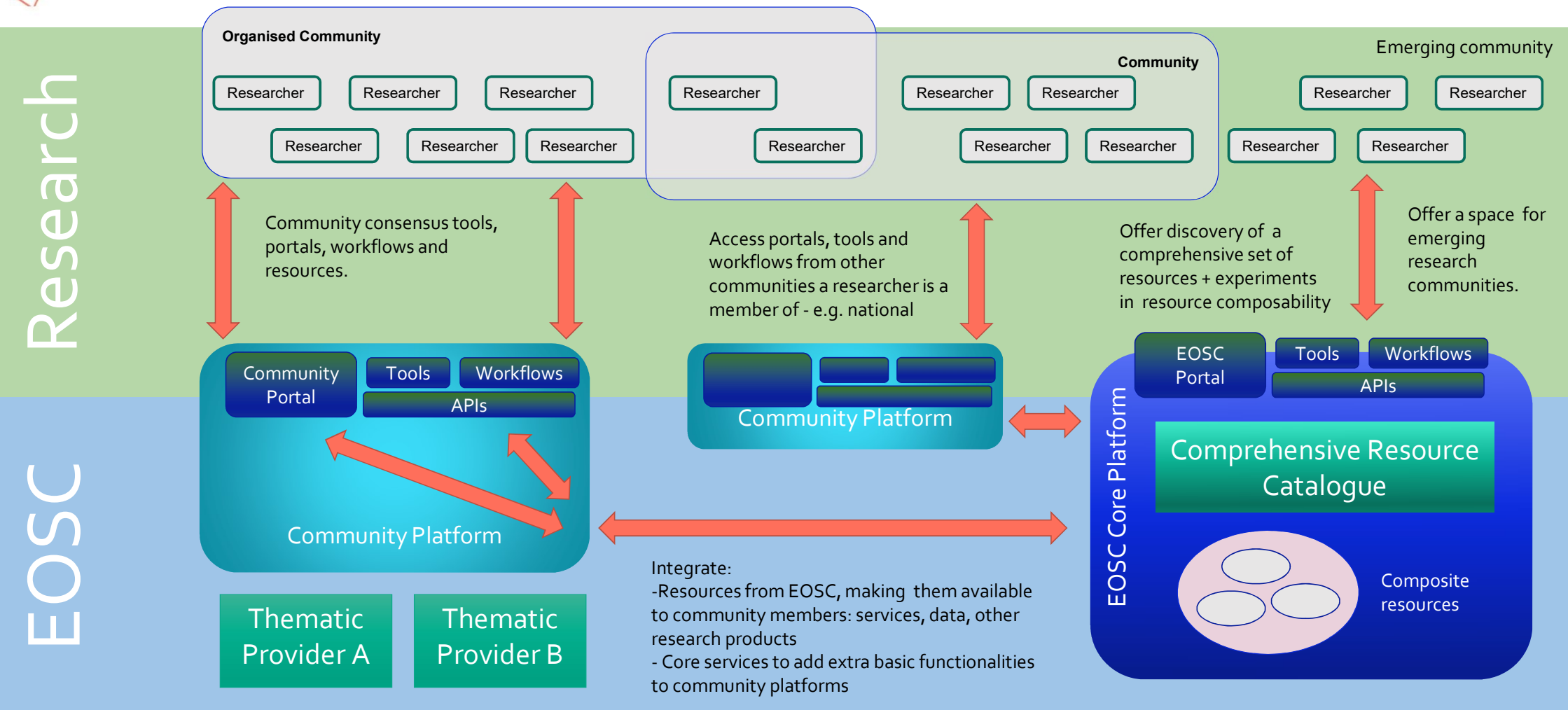
RESOURCES

SUPPORT

From open and authoritative sources around the globe.

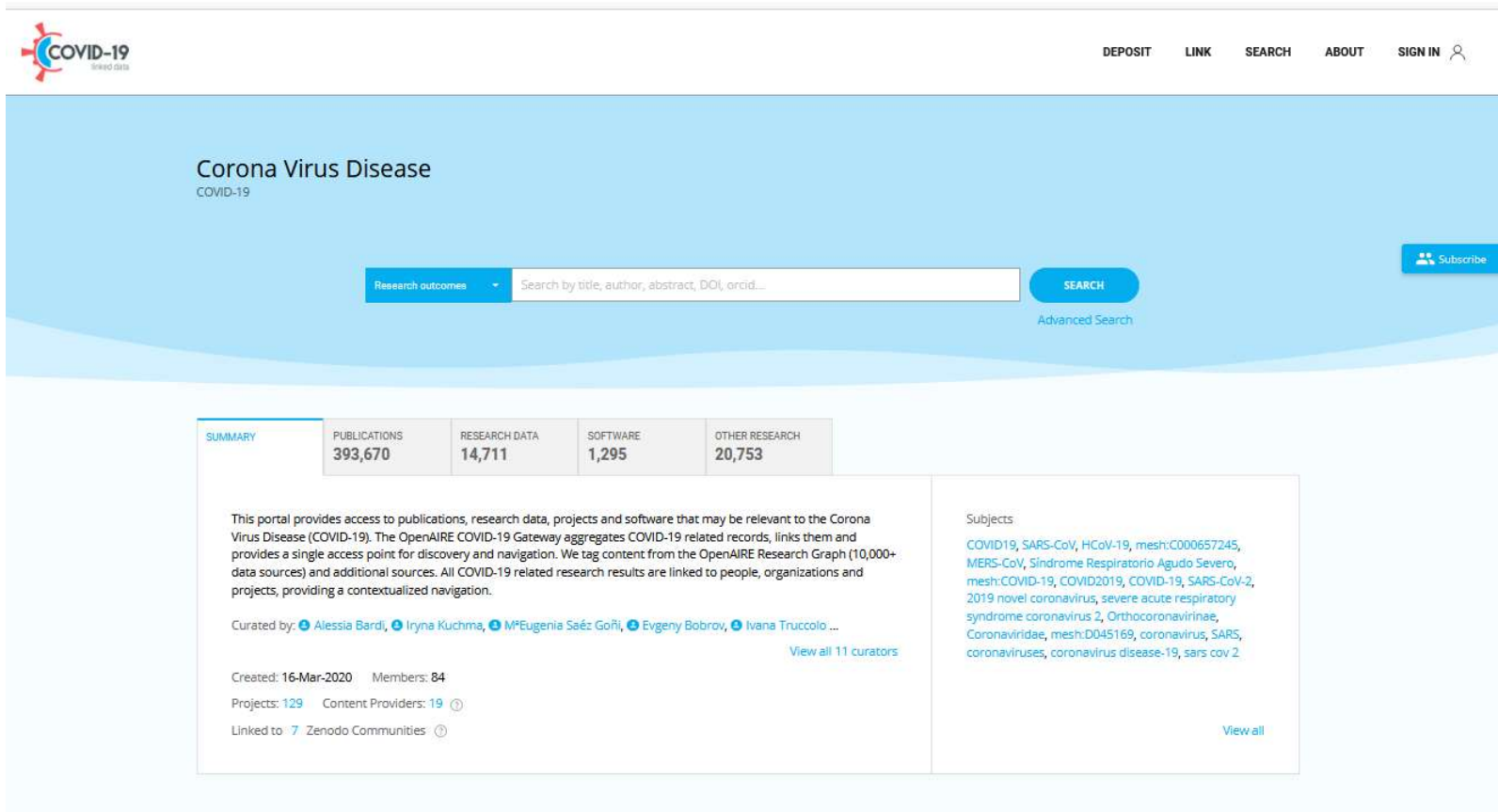


Researcher view: different benefits



RESPONSES TO COVID-19

COVID-19 OPEN RESEARCH GATEWAY



The screenshot shows the COVID-19 Open Research Gateway website. At the top left is the COVID-19 logo. The top right navigation bar includes links for DEPOSIT, LINK, SEARCH, ABOUT, and SIGN IN. The main header area features the title 'Corona Virus Disease' with 'COVID-19' below it. A search bar is present with a dropdown menu set to 'Research outcomes' and a 'SEARCH' button. Below the search bar is a link to 'Advanced Search'. A 'Subscribe' button is also visible. The main content area has a summary section with a table of statistics: PUBLICATIONS (393,670), RESEARCH DATA (14,711), SOFTWARE (1,295), and OTHER RESEARCH (20,753). Below this table is a paragraph describing the portal's purpose and a list of curators. To the right of the summary is a 'Subjects' section with a list of related terms. At the bottom right of the summary section is a 'View all' link.

COVID-19
Open data

DEPOSIT LINK SEARCH ABOUT SIGN IN

Corona Virus Disease

COVID-19

Research outcomes Search by title, author, abstract, DOI, orcid... SEARCH

Advanced Search

Subscribe

SUMMARY	PUBLICATIONS	RESEARCH DATA	SOFTWARE	OTHER RESEARCH
	393,670	14,711	1,295	20,753

This portal provides access to publications, research data, projects and software that may be relevant to the Corona Virus Disease (COVID-19). The OpenAIRE COVID-19 Gateway aggregates COVID-19 related records, links them and provides a single access point for discovery and navigation. We tag content from the OpenAIRE Research Graph (10,000+ data sources) and additional sources. All COVID-19 related research results are linked to people, organizations and projects, providing a contextualized navigation.

Curated by: Alessia Bardi, Iryna Kuchma, M^{re}Eugenia Saéz Goñi, Evgeny Bobrov, Ivana Truccolo ... [View all 11 curators](#)

Created: 16-Mar-2020 Members: 84

Projects: 129 Content Providers: 19

Linked to: 7 Zenodo Communities

Subjects

COVID19, SARS-CoV, HCoV-19, mesh:C000657245, MERS-CoV, Síndrome Respiratorio Agudo Severo, mesh:COVID-19, COVID2019, COVID-19, SARS-CoV-2, 2019 novel coronavirus, severe acute respiratory syndrome coronavirus 2, Orthocoronavirinae, Coronaviridae, mesh:D045169, coronavirus, SARS, coronaviruses, coronavirus disease-19, sars cov 2

[View all](#)

[Upload](#)
[Communities](#)

[Log in](#)
[Sign up](#)

Coronavirus Disease Research Community - COVID-19

Recent uploads

October 17, 2021 (v2)

Journal article

Open Access

Comparison of SARS-CoV-2 neutralization by IgG and IgA antibodies through molecular dynamics

Micael Davi Lima de Oliveira; Kelson Mota Teixeira de Oliveira; Jonathas Nunes da Silva;

Molecular dynamics simulations were performed in Schrodinger Maestro 2021-2 software by the Desmond algorithm. Therefore, the .cms file can only be viewed in this software. IgA (PDB ID: 1OW0) IgG (PDB ID: 7BZ5)

Uploaded on October 19, 2021

1 more version(s) exist for this record

View

November 4, 2020 (v1)

Conference paper

Open Access

Los entrenadores y la capacitación para la reactivación de los servicios turísticos post COVID-19

Martínez Oviedo, Miriam de la Caridad;

La reactivación turística post COVID-19 requiere la preparación masiva y con calidad de los trabajadores del sector; el cómo capacitar a esos trabajadores para la reactivación de los servicios turísticos con rigor y calidad, en el menor tiempo posible, se co

Uploaded on October 18, 2021

View

November 4, 2020 (v1)

Conference paper

Open Access

View

New upload

Community

Coronavirus Disease Research Community - COVID-19

This community collects research outputs that may be relevant to the Coronavirus Disease (COVID-19) or the SARS-CoV-2. Scientists are encouraged to upload their outcome in this collection to facilitate sharing and discovery of information. Although Open Access articles and datasets are recommended, also closed and restricted access material are accepted. All types of research outputs can be included in this Community (Publication,

Accelerating research through data sharing

Read and sign our letter in support of open COVID-19 data >

Viral sequences →

Raw and assembled sequence and analysis of SARS-CoV-2 and other coronaviruses.

6,157,317 records >

Expression →

Gene and protein expression data of human genes implicated in the virus infection of the host cells. Identifying cell types and genes with highest expression

Host sequences →

Raw and assembled sequence and analysis of human and other hosts.

17,215 records >

Proteins →

Curated functional and classification data on the SARS-CoV-2 protein entries and associated protein receptors.

Latest news →



VEO 8th report on SARS-Cov-2 published →

8 Oct 2021

The COVID-19 pandemic has highlighted the critical value of open data and open science and international collaborations to progress scientific discovery when time is of the utmost importance. <https://www.covid19dataportal.org/support-data-sharing-covid19>

HORIZON EUROPE

Public emergency => alle onderzoeksuitkomsten openbaar met een niet-exclusieve licentie.

Zie AGA – Annotated Model Grant Agreement p140

https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/aga_en.pdf

Inge Van Nieuwerburgh

Open Science team

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