

PUTTING YOUR SCIENCE WITHIN REACH

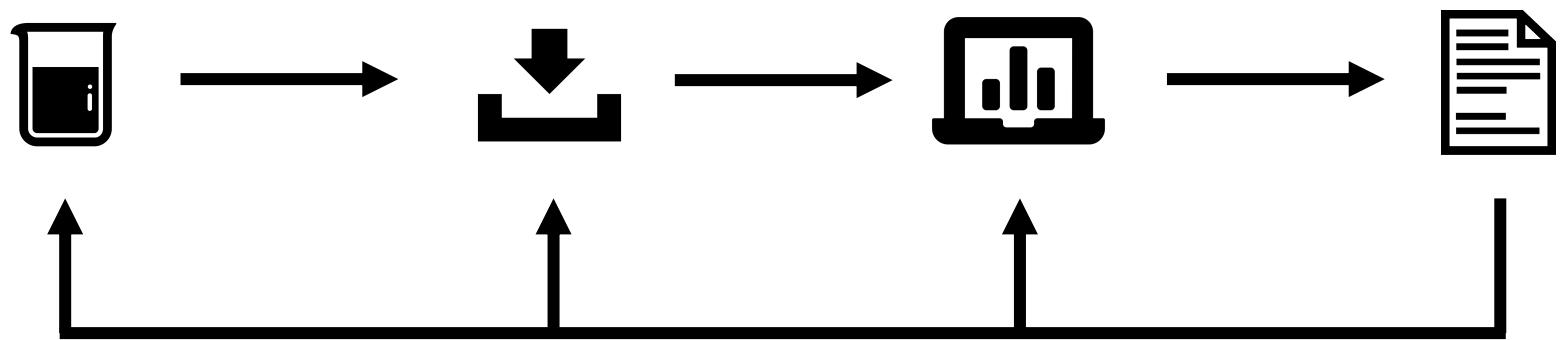


Monica Granados, PREreview Leadership Team

OPEN SCIENCE

**OPEN SCIENCE IS THE BELIEF THAT ACCESS TO SCIENCE SHOULD NOT
BE LIMITED BY YOUR OCCUPATION, RACE, NATIONALITY OR
ECONOMIC STATUS**

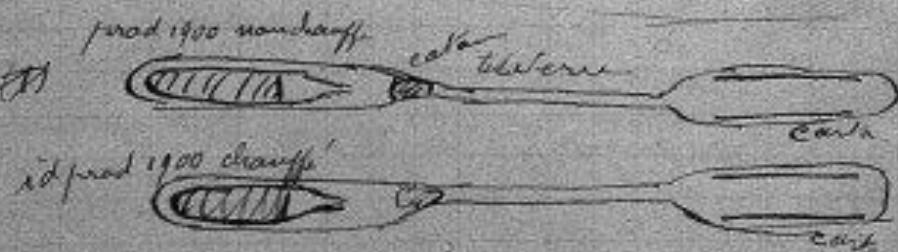
**SO HOW CAN WE MAKE OUR SCIENCE MORE ACCESSIBLE?
LET'S BREAK IT DOWN BY STEPS IN THE RESEARCH LIFE CYCLE**



COLLECTION



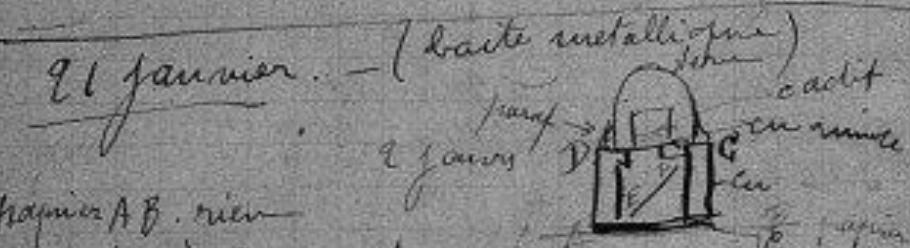
19 janvier
1 jour
C'rien



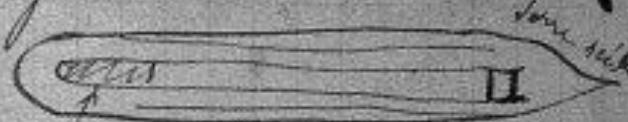
spires et fous
face interne (tube moulage)
face extérieure (tube chauffé)
face contre verte

2000 - 10°
2000 - 10°

charge par la partie verte moulage 200 - 10°
charge par la partie verte moulage 200 - 10°

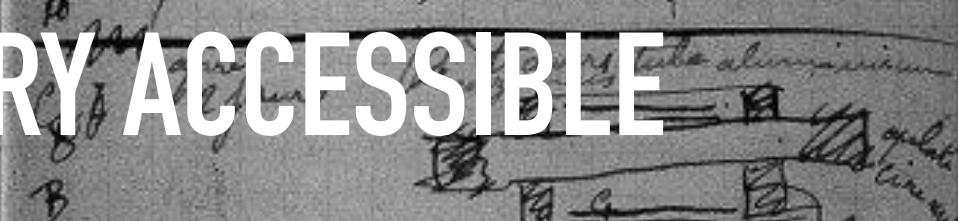


depuis 2 jours
21 janv.



A prod 195 tube verté bouchon parafine 3 cm
trajet fort app. 0
trajet fort app. 0

C 16 - 2000 - 40 (12000 - 10
M 4 - 509 - 13 (3) 1000 - 9
C 2 mm face - 90 - 8



B

100 - 13
100 - 14
M 100 - 18

C'rien



Welcome to Open Lab Notebooks

In a groundbreaking initiative, scientists around the world from Universities in Canada, France, Sweden, the UK, and the USA are starting to share their laboratory notebooks live, online. We believe that making our research, data, and protocols available on a day-to-day basis will generate scientific ideas and discussions, avoid redundancy, foster collaborations, and accelerate progress. Our hope is that this initiative will inspire others to follow. Join us!

We introduce our experiments at openlabnotebooks.org with links to experimental details



http
links

We provide all experimental details at zenodo.org



**DR. HARDING (@LabScribbles) MAINTAINS A REAL TIME OPEN LAB
ON HER HUNTINGTON'S DISEASE RESEARCH**



November 24, 2017

Dataset

Open Access

Huntingtin Q23 +- DNA Grafix in 0-1 percent Glutaraldehyde – 24th November 2017

Harding, Rachel; Duan, Shili; Hutchinson, Ashley; Seitova, Alma; Arrowsmith, Cheryl; Edwards, Aled

Huntingtin structure-function open lab notebook project

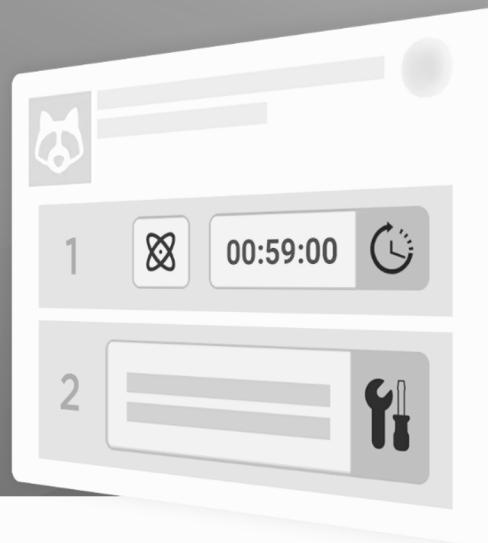
Files (1.2 MB)		▼
Name	Size	
Huntingtin Q23 +- DNA Grafix in 0-1 percent Glutaraldehyde – 24th November 2017 .docx	1.2 MB	Download
md5:9702eb2e6b0cc20820e7e3ddb7a1ed9e		

Bring structure to your research

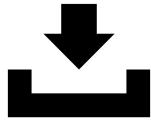
A secure platform for developing and sharing reproducible methods.

[biology](#) [chemistry](#) [computational workflows](#) [clinical trials](#)
[operational procedures](#) [safety checklists](#) [instructions / manuals](#)

[CREATE FREE ACCOUNT](#)



DATA







GITHUB IS A CODE AND DATA REPOSITORY

[Overview](#)

Repositories 23

Stars 2

Followers 17

Following 9

Monica Granados

Monsauge

Harnessing food web ecology to forward conservation. Champion of open science.

[Edit bio](#)

University of Guelph/Wildlife ...

Guelph/Toronto, ON

[http://descienceblog.tumblr.c...](http://descienceblog.tumblr.com)

Organizations



83 contributions in the last year

[Contribution settings ▾](#)

Popular repositories

[Customize your pinned repositories](#)

Open-the-North

Building a mobile app and open repository for indigenous ecological data and resources

HTML 8 1

Descience

R scripts for design examples featured on the Descience blog

R 2

Origin-omnivory-and-stability

Data and R script for "Consequences of consumer origin and omnivory on stability in experimental food web modules" manuscript

R 1

Mussel-garden-fertilization-data

Data for "Potential for local fertilization: A benthocosm test of long-term and short-term effects of mussel excretion on the plankton" published in PLoS ONE

Food-web-modules-and-individual-growth-rate

Data and R script for "Size and variation in individual growth rates among food web modules" manuscript submitted to Ecosphere.

R

Vizualizing-Nutrients

Data and code for submission into the "Seeing into Water in New Ways: The Visualizing Nutrients Challenge"

R 2

ZENODO IS FREE DATA REPOSITORY

January 18, 2017

Software Open Access

Monsauce/Stability-mechanisms: Third release of stability mechanisms data and code

Monica Granados

Newest data files and R code for "Stabilizing mechanisms in a food web with an introduced omnivore" published in Ecology and Evolution

Preview

Stability-mechanisms-3.0.zip

 Monsaucce-Stability-mechanisms-53dc41b

- README.md
- StabilityMechanisms.R
- StableIsotopes.csv
- ZooplanktonTowCounts.csv
- ZooplanktonTowDensity.csv

396 Bytes	6.0 kB
21.3 kB	1.3 kB
11.7 kB	

76

views

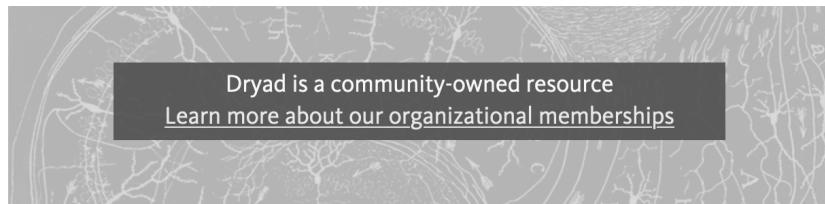
8

downloads

[See more details...](#)

Available in

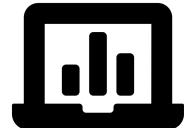
Indexed in

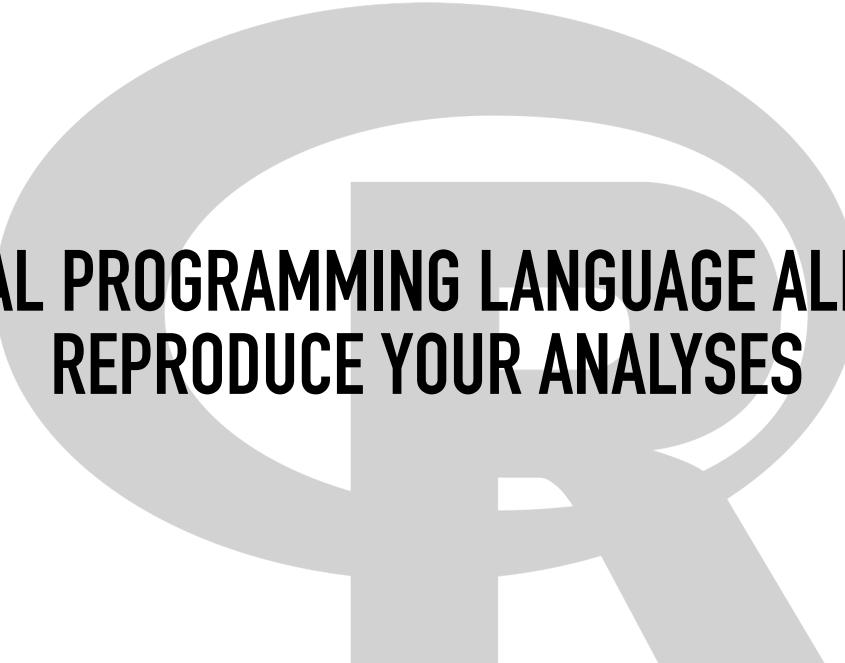


Dryad is a community-owned resource
[Learn more about our organizational memberships](#)

Submit Now

ANALYSIS





**THE R STATISTICAL PROGRAMMING LANGUAGE ALLOWS OTHERS TO
REPRODUCE YOUR ANALYSES**

RStudio Project: (None)

Food web modules and individual ... * | Source on Save | Run | Source | Environment | History | Import Dataset | Global Environment | List |

```
1 #Full code to run all analyses in Granados et al. (2017) Size and variation in individual growth rates among food web modules
2
3 #####packages required
4 library(dplyr)
5 library(reshape)
6 library(RCurl)
7 library(ggplot2)
8 library(gridExtra)
9 library(car)
10
11
12 #####load data from Github
13 RFU.URL<-getURL("https://raw.githubusercontent.com/Monsauce/Food-web-modules-and-individual-growth-rate/master/RFU.csv")
14 RFU<-read.csv(text=RFU.URL)
15
16 SC.URL<-getURL("https://raw.githubusercontent.com/Monsause/Food-web-modules-and-individual-growth-rate/master/StandardCurves.csv")
17 SC<-read.csv(text=SC.URL)
18
19 Artemia.URL<-getURL("https://raw.githubusercontent.com/Monsause/Food-web-modules-and-individual-growth-rate/master/Artemia.csv")
20 Artemia<-read.csv(text=Artemia.URL)
21
22 Ratios.URL<-getURL("https://raw.githubusercontent.com/Monsause/Food-web-modules-and-individual-growth-rate/master/RNADNARatios.csv")
23 Ratios<-read.csv(text=Ratios.URL)
1:1 (Top Level) ▾
```

Environment is empty

Files Plots Packages Help Viewer | Zoom Export |

Console ~ /Box Sync/PhD Documents/Chapter 2 (monica.granados@alumni.utoronto.ca)/Manuscript/Git/ Copyright (C) 2016 The R Foundation for Statistical Computing Platform: x86_64-apple-darwin13.4.0 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

Natural language support but running in an English locale

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> |



FRictionless DATA TOOL MAKE IT EASIER TO SHARE YOUR DATA



Resources

Name resource1

Path ps://raw.githubusercontent.com/Monsaice/Origin-omnivory-and-stability/master/Snail.csv

Load



Upload

Validate

Download

Metadata

Name

my-data-package

Title

My Data Package

Profile

Tabular Data Package

Description

Describe your dataset

Home Page

https://example.com

Version

1.0.0

Author

J.P. ----

Day

1 | 1

Title

Data Type

integer

Data Format

default

Trophic

1 | Snail

Title

Data Type

string

Data Format

default

Species

1 | Snail

Title

Description

Data Type

string

Data Format

default

Origin

1 | NA

Title

Description

Data Type

string

Data Format

default

Mesocosm

1 | 2

Title

Description

Data Type

integer

Data Format

default

Replicate

1 | 1

Title

Description

Data Type

integer

Data Format

default

Density

1 | 22

Title

Description

Data Type

integer

Data Format

default

Alive

1 | 22

Title

Description

Data Type

integer

Data Format

default

PUBLICATION



Subscribe to *Nature Ecology & Evolution*
for full access:

\$99

READCUBE ACCESS:

\$8.99
rent

\$22.00
buy

THIS IS NOT VERY ACCESSIBLE

[Subscribe](#)

[Buy/Rent now](#)

Additional access options:

Already a subscriber? Log in now or Register for online access.

[Login via Athens](#) | [Login via Shibboleth](#) | [Use a document delivery service](#) | [Purchase a site license](#)



**R MARKDOWN ALLOWS YOU TO PRODUCE REPRODUCIBLE
MANUSCRIPTS**

RStudio

RmdWalkthrough.Rmd x

1 -
2 title: "TRCA Rmd Walkthrough"
3 author: "Monica Granados"
4 date: "April 1, 2016"
5 output:
6 html_document: default
7 pdf_document: default
8 ---
9
10 #Plots, tables and in-line code
11
12 Here we will build a Word document using the Doubbs fish data to demonstrate the dynamic properties of R Markdown. Let's first calculate the species richness at each site.
13
14 ```{r include=FALSE}
15 #load packages
16 library(ggplot2)
17 library(vegan)
18 ```
19
20 ```{r, echo=FALSE}
21 fish<-read.csv("doubsspe.csv")
22 fish.pa<-decostand(fish[,2:28], method = "pa")
23 fish\$richness<-rowSums(fish.pa)
24 fish.richness<-ggplot(fish, aes(x = Site, y = richness))+ geom_bar(stat = "identity", position="dodge")+xlab("Sites") +
25 ylab("Richness") + theme_bw()
26 plot(fish.richness)
27
28
29 We can also embed R code within the document. For example if we wanted to know the average richness across our Doubbs sites. The

39:1 Plots, tables and in-line code R Markdown

Console ~/ ↗
* DONE (rmarkdown)
Warning message:
In strftime(x, fmt, tz = "GMT") :
unknown timezone 'zone/tz/2018c.1.0/zoneinfo/America/New_York'

Restarting R session...

Restarting R session...
>

Environment History Global Environment

Environment is empty

Files Plots Packages Help Viewer



THE PREPRINT SERVER FOR BIOLOGY

Search



Advanced Search

Subject Areas

All Articles

Animal Behavior and Cognition	Ecology	Paleontology
Biochemistry	Epidemiology	Pathology
Bioengineering	Evolutionary Biology	Pharmacology and Toxicology
Bioinformatics	Genetics	Physiology
Biophysics	Genomics	Plant Biology
Cancer Biology	Immunology	Scientific Communication and Education
Cell Biology	Microbiology	Synthetic Biology
Clinical Trials	Molecular Biology	Systems Biology
Developmental Biology	Neuroscience	Zoology

Enter search terms here



Preprints with reviews or requests for reviews

 [Add Review](#) [Add Request](#)

RECENTLY RAPID REVIEWED

RECENTLY REVIEWED

RECENTLY REQUESTED

DATE PUBLISHED

A potent bispecific nanobody protects hACE2 mice against SARS-CoV-2 infection via intranasal administration

Feb. 9, 2021

bioRxiv > 10.1101/2021.02.08.429275



(2) 0 Rapid Review | 0 Long-form Review | 2 Requests

Last activity 6 days ago ▾

Inhaled budesonide in the treatment of early COVID-19 illness: a randomised controlled trial

Feb. 8, 2021

medRxiv > 10.1101/2021.02.04.21251134



(3) 1 Rapid Review | 0 Long-form Review | 2 Requests

Last activity 6 days ago ▾

Neutralization of SARS-CoV-2 VOC 501Y.V2 by human antisera elicited by both inactivated BBIBP-CorV and recombinant dimeric RBD ZF2001 vaccines

Feb. 2, 2021

bioRxiv > 10.1101/2021.02.01.429069

Imported from PREREview V1

(1) 0 Rapid Review | 0 Long-form Review | 1 Request

Last activity 13 days ago ▾

Robust spike antibody responses and increased reactogenicity in seropositive individuals after a single dose of SARS-CoV-2 mRNA vaccine

Feb. 1, 2021

medRxiv > 10.1101/2021.01.29.21250653

Imported from PREREview V1

(0) 0 Rapid Review | 0 Long-form Review | 0 Request

No activity yet ▾

Give Feedback



**HYBRID OR GOLD OPEN ACCESS PUBLISHING MAKES YOUR
RESEARCH ACCESSIBLE TO ALL BUT CARRIES FEES**



**GREEN OPEN ACCESS OR SELF ARCHIVING IS AN FREE, ALTERNATIVE
OPTION**

Publisher copyright policies & self-archiving

[English](#) | [Español](#) | [Magyar](#) | [Nederlands](#) | [Português](#)

Search

Journal titles or ISSNs Publisher names

Exact title starts with contains ISSN

[Advanced Search](#)[Search](#)[Reset](#)

Use this site to find a summary of permissions that are normally given as part of each publisher's copyright transfer agreement.

Special RoMEO Pages

- [RoMEO Statistics](#)
- [Application Programmers' Interface \(API\)](#)
- [Publisher Categories in RoMEO](#)
- [Definitions and Terms](#)

Additions and Updates

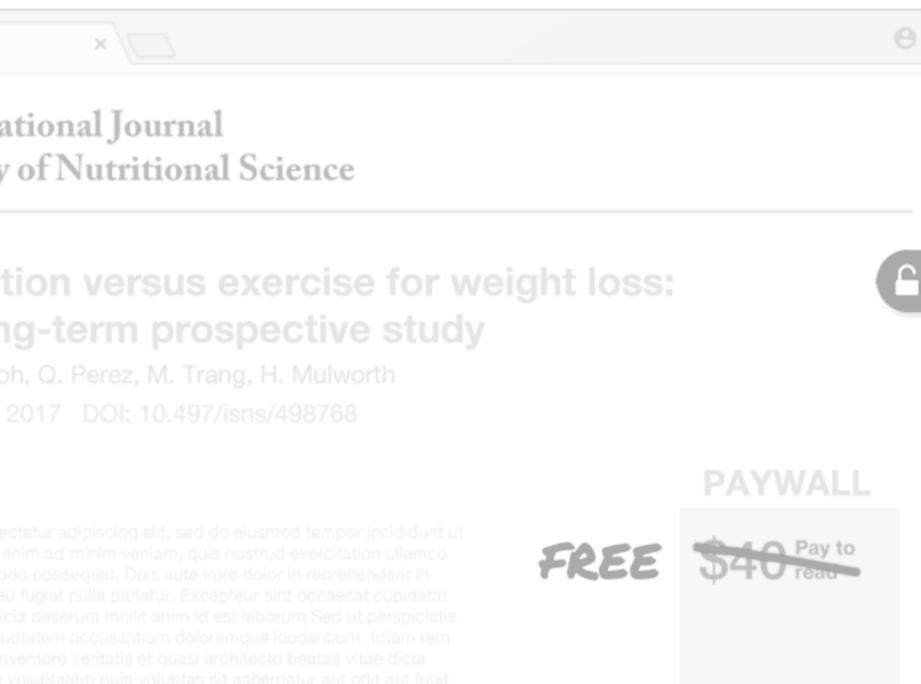
[!\[\]\(ab59d0598235e1fff2f06022b7b6963a_img.jpg\) RSS1 Feed](#)

- [Gruppo Entomologico Toscano](#) - Gruppo Entomologico Toscano - 12-Apr-2018
- [MayDay Group](#) - MayDay Group - 11-Apr-2018
- [Universidad de Jaén](#) - Universidad de Jaén - 06-Apr-2018

Other SHERPA Services

- [SHERPA/FACT](#) - Funders & Authors Compliance Tool
- [SHERPA/JULIET](#) - Research funders' open access policies





Read research papers for free.

Click the green tab and skip the paywall on millions of peer-reviewed journal articles. It's fast, free, and legal.

Add to Firefox - It's free
via the Firefox web store

★★★★★ five-star rating on Chrome Web Store

124,492 users on Chrome and Firefox have read millions of articles for free.

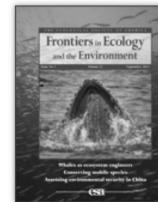
Frontiers in Ecology and the Environment

Concepts and Question

Rising complexity and falling explanatory power in ecology

Etienne Low-Décarie , Corey Chivers, Monica Granados

First published: 20 August 2014 | <https://doi.org/10.1890/130230> | Citations: 41



Volume 12, Issue 7

September 2014

Pages 412-418


Related


Information

 PDF  TOOLS  SHARE

 Get access to the full version of this article. View access options below.

Institutional Login



Access through your institution

Log in with ESA

Log in with your society credentials

[Log in](#)

Log in to Wiley Online Library

If you have previously obtained access with your personal account, please log in.

Purchase Instant Access

48-Hour online access \$7.00

[Details](#)

Online-only access \$16.00

[Details](#)

PDF download and online access \$42.00

[Details](#)

Metrics

Citations: 41

 Am score 91

Details

© The Ecological Society of America

Publication History

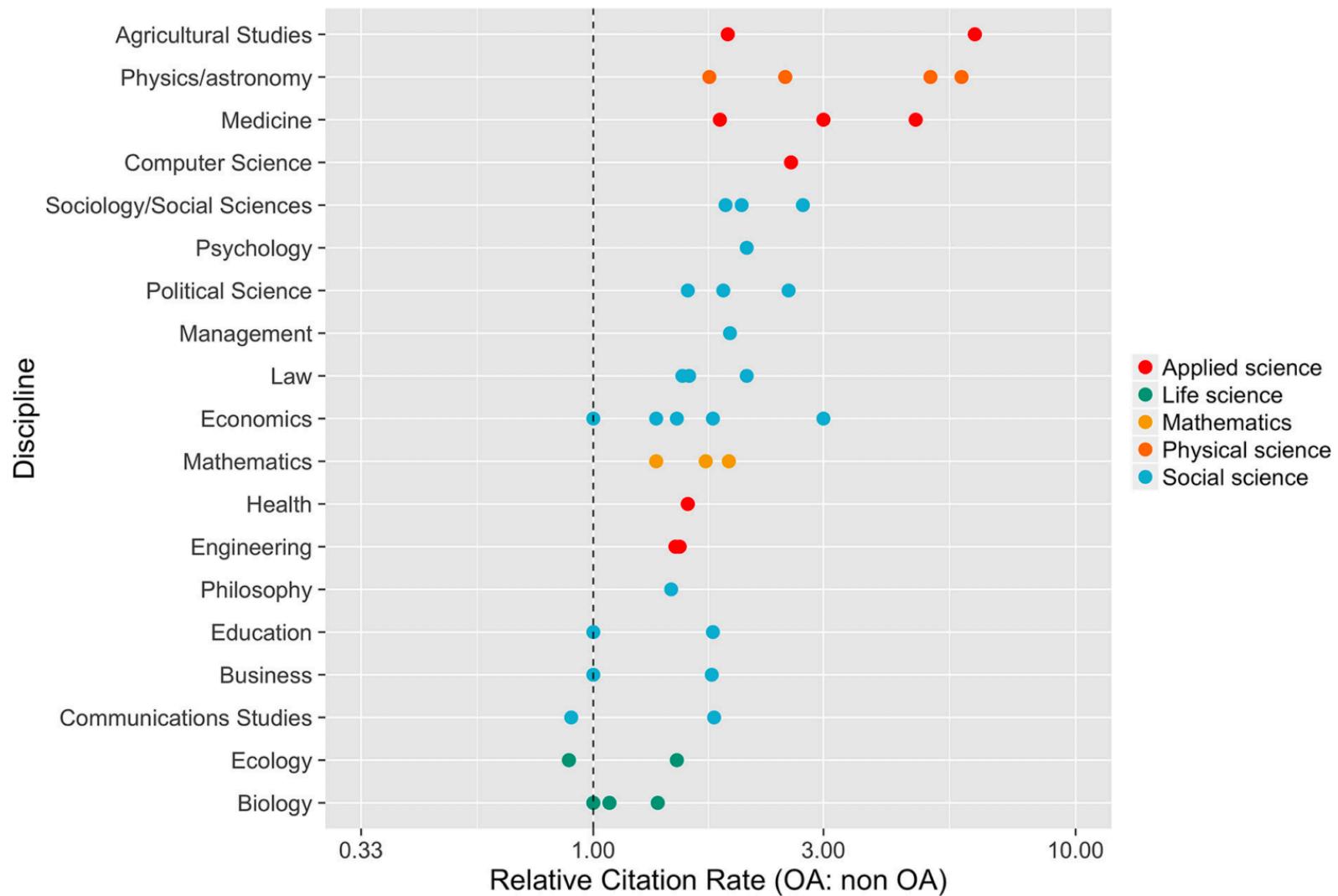
Issue Online:

20 August 2014

Version of Record online:

20 August 2014

HOW OPEN SCIENCE HELPS RESEARCHERS SUCCEED



66%

SAW A CITATION ADVANTAGE WHEN PUBLISHED AS OPEN ACCESS

REGARDLESS IF THE PAPER WAS PUBLISHED AS **GOLD** OR **GREEN** OPEN ACCESS OR SELF ARCHIVED

NATURE COMMUNICATIONS PAPERS THAT WERE PUBLISHED OPEN ACCESS RECEIVED TWICE THE NUMBER OF UNIQUE TWEETS AND MENDELEY READERS

2X

PROJECTS THAT POST DATA AND CODE GET MORE COLLABORATORS FROM A GREATER NUMBER OF COUNTRIES AROUND THE WORLD

**ASSOCIATION BETWEEN ARTICLES THAT INCLUDE STATEMENTS
THAT LINK TO DATA IN A REPOSITORY AND UP A OVER A QUARTER
HIGHER CITATION IMPACT ON AVERAGE, USING A CITATION
PREDICTION MODEL**

25.36% ↑

OPEN SCIENCE AND POLICY IN CANADA

Democracy Beyond the Ballot Box: The Biden Imperative

OGP's Chief Executive Officer Sanjay Pradhan shares how U.S. President Joe Biden can leverage OGP to renew democracy at home and abroad.

[Read more](#)





Government
of Canada

Gouvernement
du Canada

Français

Search Canada.ca



MENU ▾

[Canada.ca](#) > [Open Government](#) > Search Open Government

✓ The authoritative source of information for Canadians on COVID-19 is [Canada.ca/coronavirus](#), which includes public health guidance on [travel](#).

⚠ ▶ Possible delays in proactive publication of information

Open Government Portal

Search Records

Suggest a Dataset

Search...



87,799 records found

Order by Relevance ▾

Open Data

[Elevator charge summaries, Terminal Eastern](#)

Search Filters [Clear All](#)

Portal Type

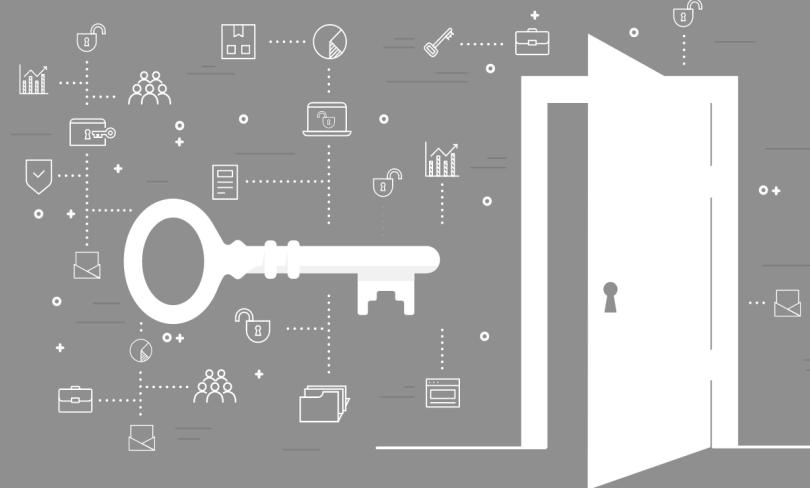
- Open Data (85753)
- Open Information (2046)
- Clear All

Collection Type

- Federated Open Data (1562)
- Geospatial (69415)
- Non-Spatial (10215)
- Open Maps (4545)
- Publications (1741)

Show more

Clear All



ROADMAP FOR OPEN SCIENCE

FEBRUARY 2020

**WE HAVE THIS OPPORTUNITY TO RESHAPE SCHOLARLY
COMMUNICATION, BUT WE CAN'T REBUILD IT WITH THE SAME
INEQUITABLE PRACTICES**

BREAK TIME!



OPEN AND REPRODUCIBLE WORKFLOW EXAMPLE

QUESTIONS?

github.com/Monsauce/science-within-reach



monica@prereview.org