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Markus Stocker November 14, 2022 EOSC Symposium



S. Haddad et al.

failure than in LV tissue samples from unused donor hearts (Figure 1A). As shown by electrophoretic mobility shift assays, IRE binding activity was significantly reduced in failing hearts (most pronounced in patients with ischemic cardiomyopathy) (Figure 1B). Protein expression levels of the transferrin receptor were significantly lower in failinghearts than the controls (Figure 1C).

Targeted Irp deletion in mice induces ID in the myocardium

We generated mice with a cardiomyocyte-targeted deletion of Irp1 and Irp2 (Cre-Irp1/2") to address Irp function in the heart (Figure 2A). Cre-Irp1/2⁰⁷ mice were born at the expected Mendelian inheritance ratio and survived into adulthood. Reverse transcriptase polymerase chain reaction on LV myocardium and isolated cardiomyocytes demonstrated near-complete Cre-mediated deletion of Irp1 and Irp2 mRNAs in cardiomyocytes from Cre-Irp1/2^{f/f} mice compared with littermates lacking the Cre transgene (Irp1/2^{er}) (Figure 2B). Irp1 and Irp2 protein expression was markedly reduced in LV myocardium and barely detectable in isolated cardiomyocytes from Cre-Irp 1/201 mice (Figure 2C and D). Irp1 and Irp2 protein expression in the liver was similar in Cre-Irp1/2^{f/f} and Irp1/2^{f/f} mice (Figure 2C and D). IRE binding activity was strongly reduced in isolated cardiomyocytes from Cre-Irp1/2⁶⁷ mice (Figure 2E), confirming near-complete Cre-mediated recombination. Iron-regulatory protein/IRE-regulated proteins involved in iron transport and storage were differentially regulated in cardiomyocytes from Cre-Irp1/2^{ff} mice: the transferrin receptor was down-regulated (25 ± 14% of Irp1/2" controls, P = 0.006), whereas ferroportin (325 ± 9%, P = 0.003) and ferritin H-chain (249 \pm 35%, P = 0.012) were up-regulated (n = 3 per group; representative immunoblots are presented in Figure 2F). As a result, iron concentration in cardiomyocytes was significantly reduced in Cre-Irp1/201 mice (Figure 2G). Likewise, iron concentration in the left ventricle was reduced in Cre-Irp1/2⁶⁷ mice compared with Irp1/2⁶⁴ controls, whereas iron concentrations in the M. quadriceps femoris and liver were not affected (Figure 2H). Iron concentration in the left ventricle was normal in Cre mice showing that cardiac ID in Cre-Irp1/2⁰⁷ mice was not related to Cre transgene expression per se (Figure 2H), Haem and myoglobin concentrations were significantly reduced in the left ventricle of Cre-Irp1/2⁰⁷ mice (Figure 2I and I). Copper and free radical concentrations in the left ventricle were similar in Cre-Irp1/2^{fif} and Irp1/2^{fif} mice (see Supplementary material on line, Figure S2).

Cre-hp1/2⁶⁷ mice didnot show an obvious phenotype under baseline conditions. Body mass, heart mass, LV mass, and cardi omyocyte oross-sectional area were similar in Cre-hp 1/2⁶⁷ and hp1/2⁶⁷ mice under baseline conditions (see Supplementary material online, Table 51). On echocardiography, LV end-disatolic and end-systolic dimensions and LV systolic and distrolic function were similar in both genotypes (see Supplementary material online, Table S1). Cre-hp1/2⁶⁷ mice were not anaemic and had a normal peripheral blood count (see Supplementary material online, Table S2).

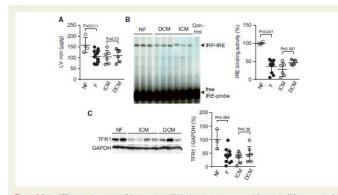


Figure 1 Reduced RP activity and into anotest in failing/human hearts. (A) Non-heam iron concentration in left-verticular (VU) tissue samples from non-failing donors (NF) and patients with cardiac failure (I) due to ischemic cardiomyopathy (ICM) or dilated cardiomyopathy (ICM) or grauped by (ICM) or al-4 oper graupe (B) Representative electrophoretic mobility shift assay and summary data showing iron-responsive element (RE) binding activity in LV tissue samples, n=4–6 (control, no sample loaded). (G) Representative immunobitist and summary data showing transferrin receptor 1 (TRR1) and GAPOH protein expression LV tissue samples. The approxement of the control of the contr

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failure than in LV tissue samples from unused donor hearts (Rgre 1A). As shown by electrophoretic mobility shift assays, IRE binding <u>ac-</u> bitly was significantly reduced in failing hearts (<u>manual</u> patients with ischemic cardiomyopathy) (*Rgure* 18). Protein expression lewels of the transferrin receptor were significantly lower in failinghearts than in the controls (*Rgre* 1C).

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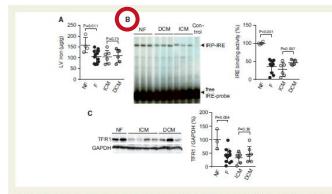


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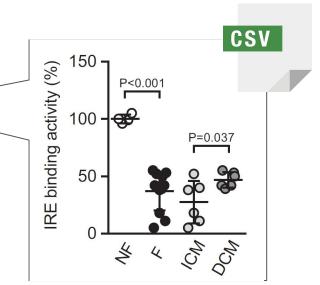
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left ventricle of Cre-Irp1rz - mice (right z rand), copper and free radical concentrations in the left ventricle were similar in Cre-Irp1r2rd and Irp1/2^{eff} mice (see Supplementary material on line, Figure 52).

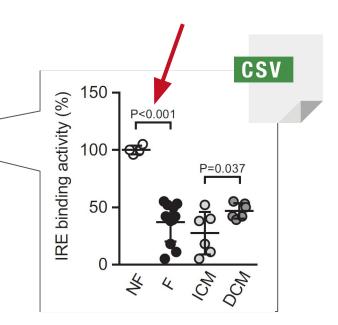
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Figure 1 Reduced MP activity and ion antert in failing human here: (A) Non-haem iron concentration in left verticular (UV) issues samples from non-failing domos, (NF) and patients with cardiac failure (Ø) due to schemic cardiomyopath (UCCM), en = 4-6 per goup (B) Representative electrophoretic mobility shift assay and summary data showing iron-responsive element (RE) binding activity in LV tissue samples, n = 4-6 (control, no sample loaded). (C) Representative immunoloit and summary data showing transferrin receptor 1 (TR1) and GPDH protein expression in LV tissues samples, n = 3-7. Pvalue were determined by two independent samples ireter.

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Student's t-test [http://purl.obolibrary.org/obo/OBI_0000739] has dependent variable iron-responsive element binding [http://amigo.geneontology.org/amigo/term/GO:0030350] has specified input https://doi.org/10.4563/zenodo.56980 has specified output p-value [http://purl.obolibrary.org/obo/OBI 0000175] scalar value specification "0.000000131112475"^^xsd:decimal

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"Scientific writing can [...] be called *information burying*"

First we bury it and then we mine it again

-- Barend Mons (2005)

https://doi.org/10.1186/1471-2105-6-142

"we have failed to [...] organize [...] information [...] in rigorous [...] ways, so that finding what we want and understanding what's already known become [...] increasingly costly experiences"

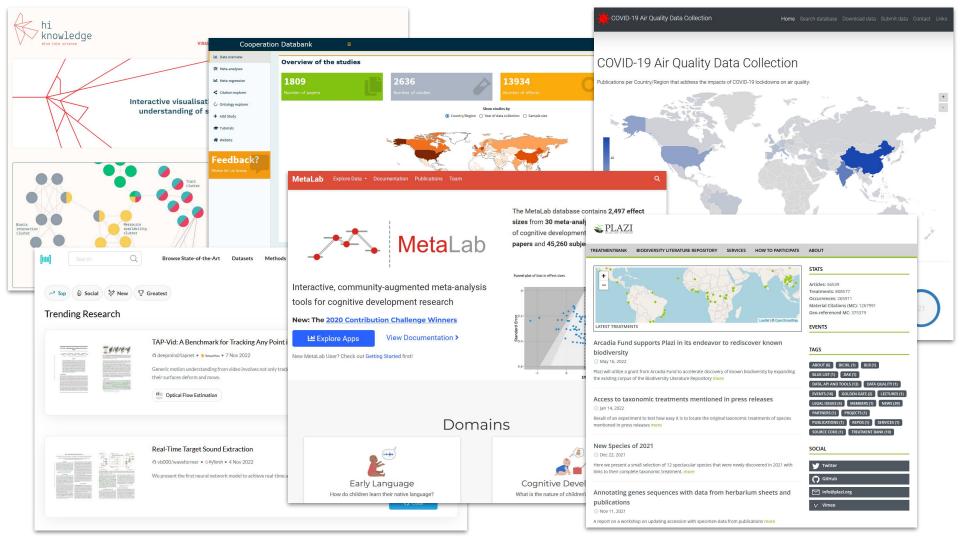
-- Teresa K. Attwood et al. (2009)

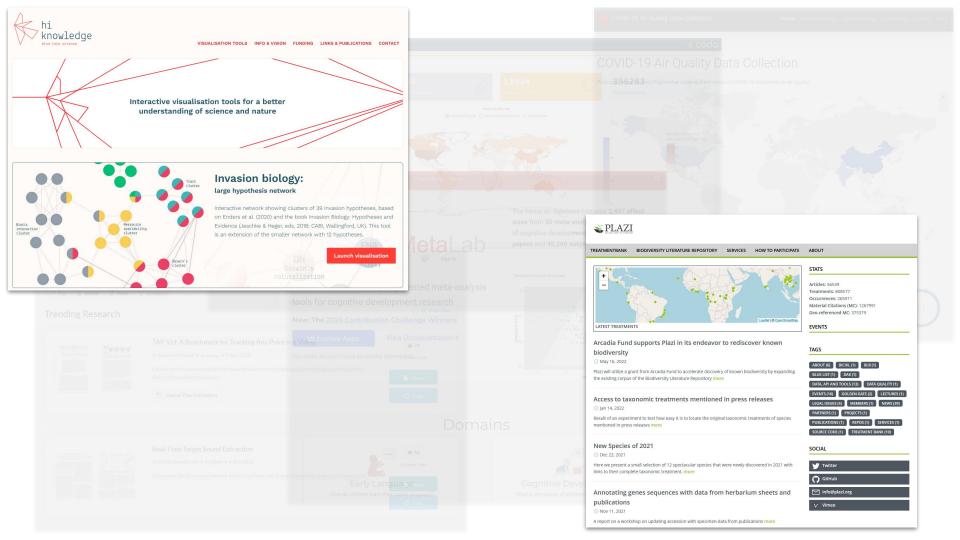
https://doi.org/10.1042/BJ20091474

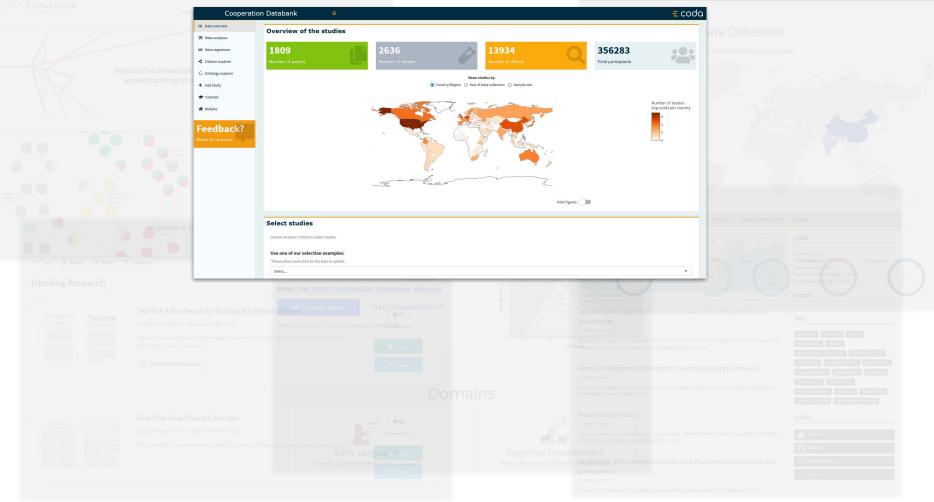
"Despite recent developments in machine learning [...], data extraction is still largely a manual process"

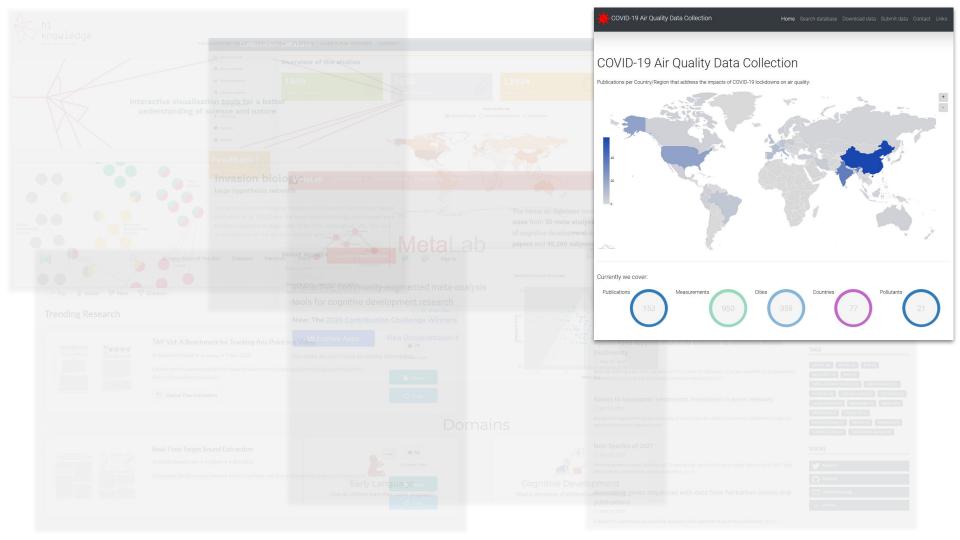
-- Julian Higgins et al. (2022)

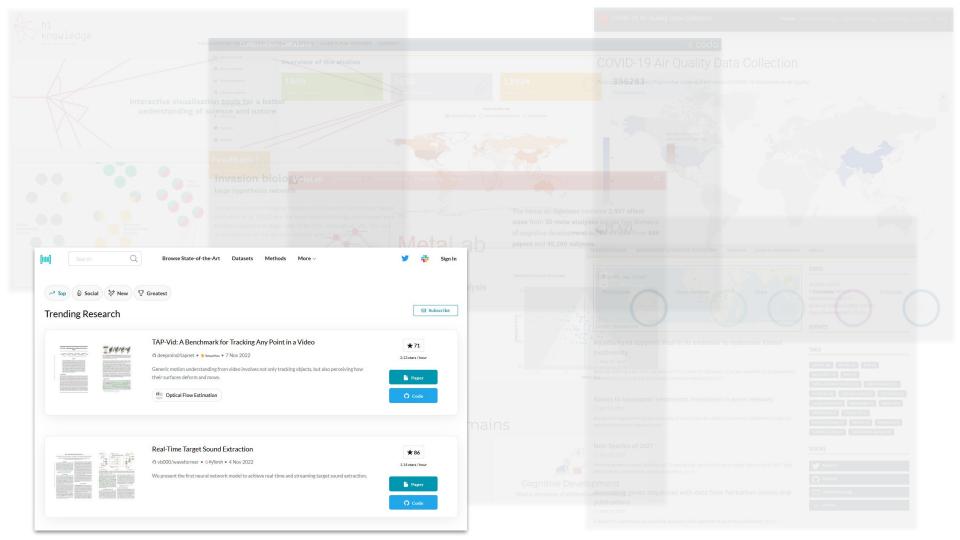
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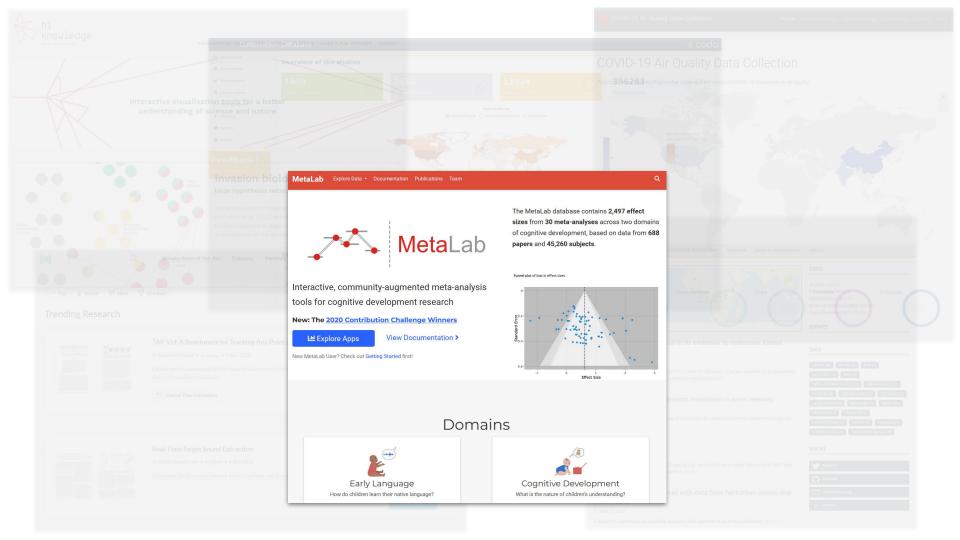


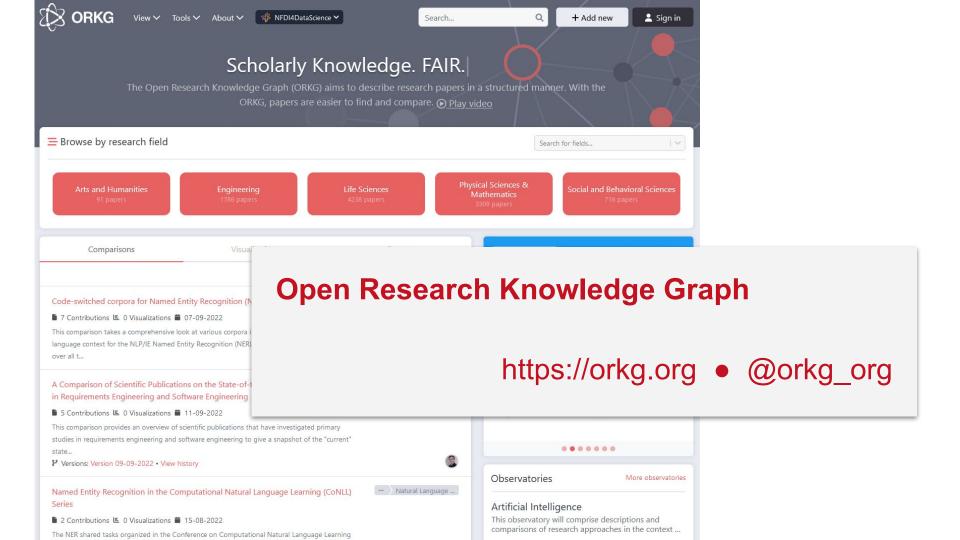








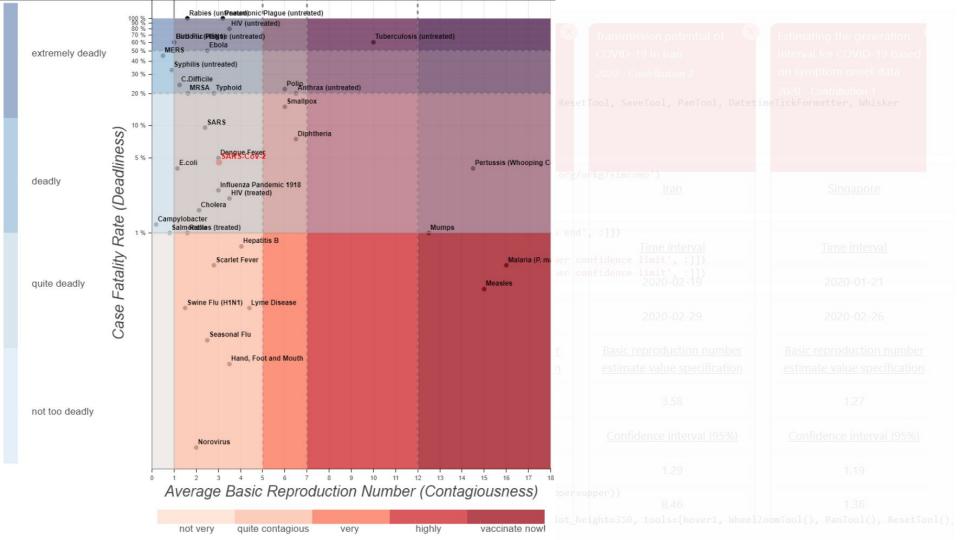




The benefits are obvious

Properties		The early phase of the COVID-19 outbreak in Lombardy, Italy 2020 - Contribution 1	Transmission potential of COVID-19 in Iran 2020 - Contribution 1	Transmission potential of COVID-19 in Iran 2020 - Contribution 2	Estimating the generation interval for COVID-19 based on symptom onset data 2020 - Contribution 1	
location	•	Lombardy, Italy	Iran	Iran	<u>Singapore</u>	
Time period	T	Time interval	Time interval	Time interval	Time interval	
<u>has beginning</u>	▼	2020-01-14	2020-02-19	2020-02-19	2020-01-21	
<u>has end</u>	T	2020-03-08	2020-02-29	2020-02-29	2020-02-26	
Basic reproduction number	¥	Basic reproduction number estimate value specification	Basic reproduction number estimate value specification	Basic reproduction number estimate value specification	Basic reproduction number estimate value specification	
<u>Has value</u>	T	3.1	3.6	3.58	1.27	
<u>Confidence interval (95%)</u>	¥	Confidence interval (95%)	Confidence interval (95%)	Confidence interval (95%)	Confidence interval (95%)	
Lower confidence limit	v	2.9	3.4	1.29	1.19	
Upper confidence limit	•	3.2	4.2	8.46	1.36	

p. 2819 formatter=DatetimeTickFormatter(days=[14 %d %b']) vaccinate now



```
]: import requests
     import datetime
     import pandas as pd
     import numpy as np
     from orkg import ORKG
     from bokeh.io import export png
     from bokeh.models import ColumnDataSource, HoverTool, WheelZoomTool, ResetTool, SaveTool, PanTool, DatetimeTickFormatter, Whisker
     from bokeh.plotting import figure, show, output_notebook
     output_notebook()
    orkg = ORKG(host='https://orkg.org/orkg', simcomp host='https://orkg.org/orkg/simcomp')
     df = orkg.contributions.compare_dataframe(comparison_id='R44930')
    dates = np.array([datetime.date.fromisoformat(x) for x in df.loc['has end', :]])
[]:
     values = np.float32(df.loc['Has value', :])
     lower = np.array([np.float32(x) if x else np.nan for x in df.loc['Lower confidence limit', :]])
     upper = np.array([np.float32(x) if x else np.nan for x in df.loc['Upper confidence limit', :]])
    hover1 = HoverTool(
[]:
         tooltips=[
             ('Date', '@date{%F}'),
             ('R0', '@value{0.ff}'),
             ('95% CI', '@lower{0.ff}-@upper{0.ff}')
         ],
         formatters={
             '@date': 'datetime',
             '@{value}' : 'printf',
             '@{lower}' : 'printf',
             '@{upper}' : 'printf'
     df = pd.DataFrame(data=dict(date=dates, value=values, lower=lower, upper=upper))
     source = ColumnDataSource(df)
     p = figure(x axis type="datetime", y range=(0, 9), plot width=800, plot height=350, tools=[hover1, WheelZoomTool(), PanTool(), ResetTool(),
     p.xaxis.formatter=DatetimeTickFormatter(days=['%d %b'])
```

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10.48366/r44930			×	Q
B Works	🖾 People	f Organizations	Repositories	

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1 Work

Publication Year		COVID-19 Reproductive Number Estimates Allard Oelen, Jennifer D'Souza, Markus Stocker, Lars Vogt, Kheir Eddine Farfar, Muhammad Haris, Kamel Fadel, Mohamad Yaser Jaradeh
2020	1	& Vitalis Wiens Comparison published 2020 in Open Research Knowledge Graph (ORKG)
Work Type		Comparison of published reproductive number estimates for the COVID-19 infectious disease
Dataset	1	DOI registered October 16, 2020 via DataCite.
License		Dataset English
CC-BY-SA-4.0	1	https://doi.org/10.48366/r44930

DataCite Common

		19 References	Estimating the Unreported Number of	Estimation of the Transmission Risk of the 2019-nCoV and Its Implication for Public Health	
		Publication Year	First Half of January 2020: A Data-Dri		
		Publication rear	Zhao, Musa, Lin, Ran, Yang, Wang, Lou, Yang, Gao, He Journal Article published 2020 in Journal of Clinical N		
ns	10.48366/r44930			Since the emergence of the first cases in Wuhan, China, the novel coronavirus (2019-nCoV) infection has been quickly spreading out	ln)
110	10.40300/144330	12-	China and has swiftly spread to other parts of China a	to other provinces and neighboring countries. Estimation of the basic reproduction number by means of mathematical modeling can	···· /
		10-	reported roughly from 1 to 15 January 2020, and thus	be helpful for determining the potential and severity of an outbreak and providing critical information for identifying the type of	
	🖬 Works 🛄 People 🏛 Or		to 24 January 2020 through the exponential growth.	disease interventions and intensity. A deterministic compartmental model was devised based on the clinical progression of the disease, epidemiological status of the individuals, and intervention measures. The estimations based on likelihood and model	
	reopte morks	5	estimation. We used the serial intervals (SI) of infection	analysis show that the control reproduction number may be as high as 6.47.19	
		2	Respiratory Syndrome (SARS) and Middle East Respir nCoV to estimate R0. Results: We confirmed that the i	interventions, such as intensive contact tracing followed by quarantine and is:	
		2010 2102 2002	reporting was likely to have resulted in 469 (95% CI: 4		
		Pattern of early human-to-human tra	January 2020 was likely to have increased 21-fold (95		1
		Julien Riou & Christian L. Althaus	average. We estimated the R0 of 2019-nCoV at 2.56 (9 during the first half of January 2020 and should be co	nessures implemented by the Chinese authorities can contribute to the preve long they should be maintained. Under the most restrictive measures, the out January 2020 with a significant low peak value. With trader instriction from imp	sret
	1 Work	Posted Content published 2020 in Crossref Citations	DOI registered February 16, 2020 via Crossref.	January 2020) with a significant low peak value. With travel restriction (no imp infected individuals in seven days will decrease by 91.14% in Beljing, compare	
	TWOIK	On December 31, 2019, the World Health Organization Wuhan, China. Chinese authorities later identified a		DOI registered February 29, 2020 via Crossref.	
		January 23, 2020, 655 cases have been confirmed in		66 10 Citations	
		characteristics and the potential for sustained huma			
	COVID-19 Reproductive	current screening and containment strategies, and d international concern (PHEIC). We performed stocha	https://doi.org/10.3390/jcm9020388	(Journal Article)	
	comp is neproductive	epidemiological findings to date. We found the basic	Nowcasting and forecasting the poter	https://doi.org/10.3396/jcm9020462	
	Allard Oelen, Jennifer D'Souza, M	indicating the potential for sustained human-to-hum	nCoV outbreak originating in Wuhan,	Report 3: Transmissibility of 2019-nCoV	ideh
	Allard Oelen, Jennier D Jouza, Mi	magnitude to severe acute respiratory syndrome-re underline the importance of heightened screening, s	susepin nativity ceans a datine in ceans	N Imai, A Cori, I Dorigatti, M Baguelin, C Donnelly, S Riley & N Ferguson	luen
	& Vitalis Wiens	order to prevent further international spread of 2015	Journal Arucie published 2020 In The cancer	Report published 2020 in Imperial College London	
		Other Identifiers	Other Identifiers Publisher ID: 50140673620302609	Self-sustaining human-to-human transmission of the novel coronavirus (2019-nCov) is the only plausible explanation of the scale of	
	Comparison published 2020 in Or	Publisher ID: biorxiv;2020.01.23.917351v1	DOI registered February 21, 2020 via Crossref.	the outbreak in Wuhan. We estimate that, on average, each case infected 2.6 (uncertainty range: 1.5-3.5) other people up to 18th January 2020, based on an analysis combining our past estimates of the size of the outbreak in Wuhan with computational modelling	
	companio in pasticite a zozo in o p	DOI registered via Crossref.	66 86 Citations	of potential epidemic trajectories. This implies that control measures need to block well over 60% of transmission to be effective in	
		662 Citations	Journal Article	controlling the outbreak. It is likely, based on the experience of SARS and MERS-CoV, that the number of secondary cases caused by a	
	Comparison of published reprodu	Posted Content		case of 2019-nCoV is highly variable – with many cases causing no secondary infections, and a few causing many. Whether transmission is continuing at the same rate currently depends on the effectiveness of current control measures implemented in China	
		https://doi.org/10.1101/2020.01.23.917351	https://doi.org/10.1016/s0140-6736(20)30260-9	and the extent to which the populations of affected areas have adopted risk-reducing behaviours. In the absence of antiviral drugs or	
	DOI registered October 16, 2020 v		Early Transmissibility Assessment of	vaccines, control relies upon the prompt detection and isolation of symptomatic cases. It is unclear at the current time whether this	
	Dorregistered October 16, 2020 v	Novel coronavirus 2019-nCoV: early	Maimuna Majumder & Kenneth D. Mandl	outbreak can be contained within China; uncertainties include the severity spectrum of the disease caused by this virus and whether cases with relatively mild symptoms are able to transmit the virus efficiently. Identification and testing of potential cases need to be	
		predictions	Journal Article published 2020 in SSRN Electronic Jon	as extensive as is permitted by healthcare and diagnostic testing capacity - including the identification, testing and isolation of	
		Jonathan M Read, Jessica RE Bridgen, Derek AT Cum Posted Content published 2020 in Crossref Citations		suspected cases with only mild to moderate disease (e.g. influenza-like illness), when logistically feasible.	
		Since first identified, the epidemic scale of the recen	665 Citations	Other Identifiers	
		rapidly, with cases arising across China and other co	Journal Article	Handle: 10044/1/77148	
		reproductive number of 3.11 (95%CI, 2.39-4.13); 58-		DDI registered March 6, 2020 via DataCite.	
	Dataset J English J	ascertainment of 5.0% (3.6-7.4); 21022 (11090-33490	Estimation of the Transmission Risk of	663 Citations	
		Other Identifiers Publisher ID: medrxiv;2020.01.23.20018549v2	Interventions	Text	
	A https://doi.org/10.40200/r4405	DOI registered via Crossref.	Biao Tang, Xia Wang, Qian Li, Nicola Luigi Bragazzi, Sa	https://doi.org/10.25561/77148	
	https://doi.org/10.48366/r4491	6 23 Citations	Journal Article published 2020 in SSRN Electronic Jon	Time-varying transmission dynamics of Novel Coronavirus Pneumonia in China	
		Posted Content	DOI registered February 21, 2020 via Crossref.	Tao Liu, Jianxiong Hu, Jianpeng Xiao, Guanhao He, Min Kang, Zuhua Rong, Lifeng Lin, Haojie Zhong, Qiong Huang, Aiping Deng,	
			664 Citations	Weilin Zeng, Xiaohua Tan, Siqing Zeng, Zhihua Zhu, Jiansen Li, Dexin Gong, Donghua Wan, Shaowei Chen, Lingchuan Guo & Yan Li	
		https://doi.org/10.1101/2020.01.23.20018549	Journal Article	Posted Content published 2020 in Crossref Citations	
		Preliminary estimation of the basic r	https://doi.org/10.2139/ssm.3525558	Other Identifiers Publisher ID: biomiv:2020.01.25.919787v2	
		China, from 2019 to 2020: A data-driv	Real-Time Estimation of the Risk of D	DDI registered March 12, 2020 via Crossref.	
		Shi Zhao, Qianyin Lin, Jinjun Ran, Salihu S Musa, Gu	Inference Using Exported Cases	GG7 citations	
		Maggie H Wang	Sung-mok Jung, Andrei R. Akhmetzhanov, Katsuma H	Posted Content	
		Posted Content published 2020 in Crossrel Citations Other Identifiers	Kinoshita & Hiroshi Nishiura		
		Other Identifiers Publisher ID: biorxiv;2020.01.23.916395v2	Journal Article published 2020 in Journal of Clinical H	https://doi.org/10.1101/2020.01.25.919787	
		DOI registered via Crossref.	The exported cases of 2019 novel coronavirus (COVID estimate the cumulative incidence and confirmed case		
		667 Citations	characterize the severity and understand the panden	Mingwang Shen, Zhihang Peng, Yanni Xiao & Lei Zhang	
		Posted Content	exponential growth rate of the incidence, the present		
			average number of secondary cases generated by a si from a single index case with illness onset on 8 Decer	We present a timely evaluation of the Chinese 2019-nCov epidemic in its initial phase, where 2019-nCov demonstrates comparable transmissibility but lower fatality rates than SARS and MERS. A quick diagnosis that leads to case isolation and integrated	
		https://doi.org/10.1101/2020.01.23.916395	parameters (Scenario 2) based on data from 20 export	interventions will have a major impact on its future trend. Nevertheless, as China is facing its Spring Festival travel rush and the	
		Early Transmission Dynamics in Wuh	January was estimated at 6924 cases (95% confidence	3 anidemic has spread beyond its horders, further investigation on its potential spatiatemporal transmission pattern and noval	
		Qun Li Xubua Guan Peng Wu Xiaoye Wang Lei Zho	respectively. The latest estimated values of the cCFR	intervention strategies are warranted.	

DOI registered February 16, 2020 via Crossref.

https://doi.org/10.1056/nejmoa2001316

66 179 Citations

Que Li, Xuhua Guan, Peng Wu, Xiaoye Wang, Lei Zho Xing, Nigum Xiang, Yang Wu, Chao Li, Qi Chen, Dau Journal Arricle publiched 2020 in Neur Pgland Jam Journal Arricle publiched 2020 in Neur Pgland Jam Journal Arricle publiched 2020 in Neur Pgland Jam Johnen, The proposed approxile provides insides in Publicher Disboni intervention strategies are warranted pandemic. The proposed approach provides insights DOI registered March 18, 2020 via Crossref. DOI registered February 29, 2020 via Crossref. **66**5 Citations 667 Citations https://doi.org/10.1101/2020.01.23.916726 https://doi.org/10.3390/jcm9020523

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https://doi.org/10.1101/2020.03.08.20030643

1 Organizations

Transmission potential of COVID-19 in Iran

Kamalich Muniz-Rodriguez, Isaac Chun-Hai Fung, Shayesterh R. Ferdosi, Sylvia K. Ofori, Yiseul Lee, Amna Tariq & Gerardo Chowell Posted Content published 2020 via medRxiv

We computed reproduction number of COVID-19 epidemic in Iran using two different methods. We estimated R0 at 3.6 (95% CI, 3.2, 4.2) (generalized growth model) and at 3.58 (95% CI, 1.29, 8.46) (estimated epidemic doubling time of 1.20 (95% CI, 1.05, 1.44) days) respectively. Immediate social distancing measures are recommended.

Other Identifiers

Works

Publisher ID: medrxiv;2020.03.08.20030643v1

DOI registered April 10, 2020 via Crossref.

66 2 Citations

Posted Content

https://doi.org/10.1101/2020.03.08.20030643



2 Citations

COVID-19 Reproductive Number Estimates

Allard Oelen, Jennifer D'Souza, Markus Stocker, Lars Vogt, Kheir Eddine Farfar, Muhammad Haris, Kamel Fadel, Mohamad Yaser **Jaradeh & Vitalis Wiens**

Comparison published 2020 in Open Research Knowledge Graph (ORKG)

Comparison of published reproductive number estimates for the COVID-19 infectious disease



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2

English Dataset

https://doi.org/10.48366/r44930





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Publication Year

2020

Work Type

Dataset

So why is most scientific information still buried in documents?

Because it is hard to produce FAIR scientific information



Basic reproduction number	<u>3.1</u>			
	+			
location	Lombardy, Italy			
	+			
Time period	2020-01-14 - 2020-03-08			
	+			
research problem	Determination of the COVID-19	~	Cancel	Create
+ Add property	Determination of the COVID-19 basic reproduction num → Referred: 35 times S Instance of: Problem	iber	ORKG 🖻	

Post-publication / Manually

The suggestions listed below are automatically generated based on the title and abstract from the paper. Using these suggestions is optional.

+ Suggestions 🕜

eferences

Statements

 Research problem

 environmental phenomena
 monitoring of atmospheric phenomena
 organization and interpretation of

tract

- organization and interpretation or sensor data
- scientific computing workflows

Resource

≪ Sensor Data

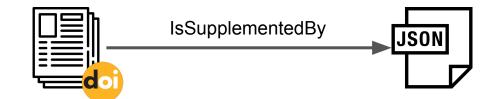


Production

```
# Two Linear Mixed Model (LMM) computations
      lm.mwd.1 <- lmer(MWD cor ~ cc variant + (1|depth), data = df.MWD)</pre>
      lm.mwd.2 <- lmer(MWD cor ~ cc type + (1|depth), data = df.MWD)</pre>
      # Output data for the two LMM
      df1 <- data.frame(summary(lm.mwd.1)$coefficients, check.names=FALSE)</pre>
      df2 <- data.frame(summary(lm.mwd.2)$coefficients, check.names=FALSE)
      instance <- tp$model fitting(</pre>
        label="Linear mixed model fitting with MWD as response, CC variant as predictor variable, and soil depth as random variable",
42
        has input dataset=tuple(df.MWD, "Difference of mean weight diameter between the dry and wet sieving method"),
        has input model=tp$statistical model(
          label="A linear mixed model with MWD as response and CC variant as predictor variable",
          is denoted by=tpsformula(
            label="The formula of the linear mixed model with MWD as response and CC variant as predictor variable",
            has value specification=tp$value specification(
              label="MWD cor ~ cc variant + (1|depth)",
              has specified value="MWD cor ~ cc variant + (1|depth)"
        has output dataset=tuple(df1, "Results of LMM with MWD as response and CC variant as predictor variable")
      instance$serialize to file("article.contribution.1.json", format="json-ld")
```









Cover crops improve soil structure and change OC distribution in aggregate fractions 🕸 🕲

\Xi Soil Science 😩 Gentsch, Norman 🌲 Laura Riechers, Florin 🌲 Boy, Jens 😩 Schweneker, Dörte 🛔 Feuerstein, Ulf 😩 Heuermann, Diana

💄 Guggenberger, Georg

hed in: SOIL		View Tabular Data: Result	s of LMM with MWD as response an	d CC variant as predictor varia
inear mixed model fitting with MWD a	Linear mixed model fitting with MWD a	Pr(> t)	t value	df
		Search 7 records	Search 7 records	Search 7 records
has input dataset	https://doi.org/10.5281/zenodo.7314152 🗗	8.689498e-05	14.46535	4.267258
		0.04331638	2.069312	54.0
has input model	A linear mixed model with MWD as response and C	0.03388362	2.17684	54.0
	predictor variable	0.08675521	1.744536	54.0
		0.04539721	2.04838	54.0
	Results of LMM with MWD as response and CC var	0.03369833	2.179203	54.0
has output dataset		0.001928021	3.260628	54.0
	⊞			

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