



Do organisms need an impact factor? Other use cases for PIDs

Tom Gillespie
UCSD



<https://orcid.org/0000-0002-7509-4801>

Anita Bandrowski
SciCrunch, UCSD



<https://orcid.org/0000-0002-5497-0243>



Co-funded by
the European Union



RRIDs? Why are we here?

*“People are wasting time looking for antibodies,
why can’t you help them by creating an
algorithm that can find those”*

- NIH in contract to UCSD 2008



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THE AMERICAN SOCIETY FOR MICROBIOLOGY

mBio. 2019 Jul-Aug; 10(4): e01942-19.

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PMCID: PMC67

PMID: [314](https://pubmed.ncbi.nlm.nih.gov/314)

Interaction of the Ankyrin H Core Effector of *Legionella* with the Host LARP7 Component of the 7SK snRNP Complex

[Juanita Von Dwingelo](#),^{#a} [Ivy Yeuk Wah Chung](#),^{#b} [Christopher T. Price](#),^a [Lei Li](#),^b [Snake Jones](#),^a [Mirosław Cy](#),
and [Yousef Abu Kwaik](#)^{✉a,d}

Scot P. Ouellette, Editor

Scot P. Ouellette, University of Nebraska Medical Center;

So we tried
looking for
antibodies
without robots
first...

Confocal laser scanning microscopy. Processing of transfected cells for confocal microscopy was performed as we described previously. Briefly, monolayers were permeabilized and fixed using 100% methanol held at -20°C for 5 min and were then blocked and labeled with mouse-anti-FLAG (Sigma) (1/200 dilution in 3% bovine serum albumin [BSA]–phosphate-buffered saline [PBS]) and rabbit-anti-Myc (Proteintech) (1/200 dilution in 3% BSA–PBS). Cells were counterlabeled with Alexa Fluor 488 anti-mouse antibody (Invitrogen) (1/4,000 dilution in 3% BSA–PBS), Alexa-Fluor 555 anti-rabbit antibody

Search term: "mouse anti flag" ✕

Product Category:Antibodies ✕

Compare Products: Select up to 4 products.

17 matches found for mouse anti flag

[Advanced Search](#) | [Structure Search](#)

ANTI-FLAG® M2 Affinity Gel

1 Product Result | Match Criteria: Property, Description, Product Name

Synonym: Anti-ddddk, Anti-dykdddk, Monoclonal ANTI-FLAG® M2 antibody produced in mouse

Product #	Clonality	Application	Species Reactivity
☐ A2220	M2, monoclonal	IP, affinity chromatography	

No Identifier
=
Not Findable

For confocal microscopy was
utilized and fixed using 100%
mouse-anti-FLAG (Sigma)
[PBS]) and rabbit-anti-Myc
with Alexa Fluor 488 anti-
fluor 555 anti-rabbit antibody

Isn't a catalog number good enough?

[Home](#)[About](#)[FAQ](#)

Antibody Registry beta

3 antibodies for "AB_2178887"

Last Updated: Monday, January 15

[All Results](#)

☐ Name & ID	Target antigen	Proper citation	Clonality
☐ Anti-NFkappaB, p65 subunit, active subunit, clone 12H11 AB_2178887	NFkappaB p65 subunit active subunit clone 12H11	(Millipore Cat# MAB3026, RRID:AB_2178887)	monoclonal
☐ Anti-NFkappaB, p65 subunit, active subunit, clone 12H11 AB_2178887	Rela	(Boehringer Cat# 1697838, RRID:AB_2178887)	monoclonal
☐ Anti-NFkappaB, p65 subunit, active subunit, clone 12H11 AB_2178887	Rela	(Roche Cat# 1697838, RRID:AB_2178887)	monoclonal

Several catalog numbers for the same product:

Boehringer - licensed the antibody and no longer exists, **Roche** sold all stocks did not sell antibodies for a decade **Millipore/Sigma/Merck** merge (at least one hostile takeover)

RRIDs: PIDs for key biological resources

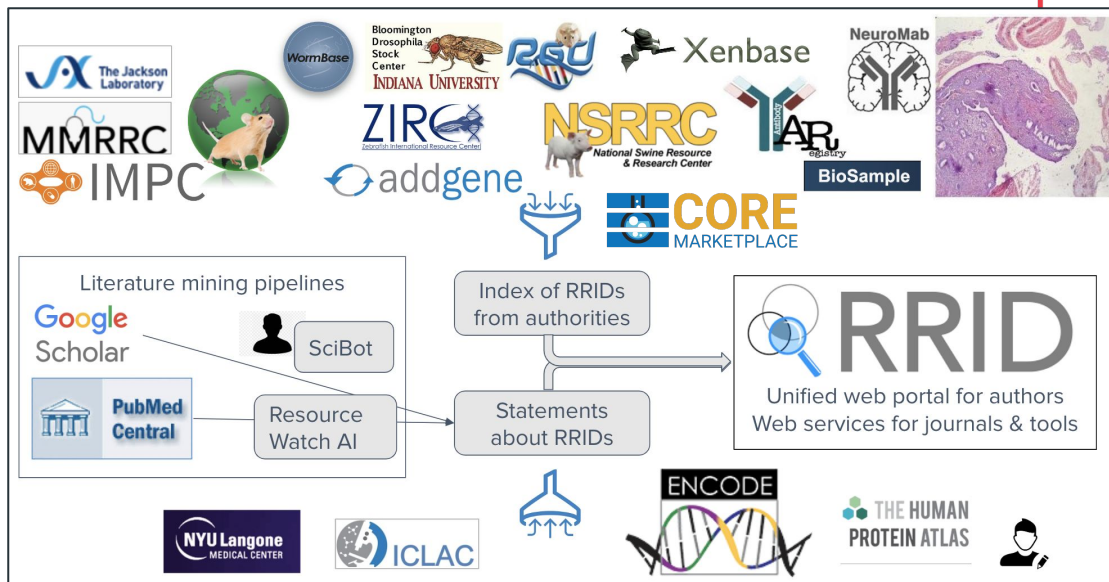
Millipore/Sigma Cat# MAB3026, RRID:AB_2178887 (lot#)
(Company Name) (Catalog number), (RRID Identifier from authority)



What does it do: The Resource Identification Initiative is designed to help researchers sufficiently cite the key resources used to produce the scientific findings reported in the biomedical literature.

What problem does it solve: Resources reported in the biomedical literature often lack sufficient detail to enable reproducibility or reuse. This has been called out as a serious enough problem by the NIH to introduce new guidelines for Rigor and Transparency for almost all awards in starting in May of 2016.

Who are the users: Publishers/journals, research resource companies (producing e.g. antibody, mouse and cell lines)



Anatomy of an RRID

RRID:IMSR_JAX:000664

I used this
resource

Data
Source

Source Local
Unique Identifier

RRIDs were not originally conceived of as a digital PID system.



RRIDs in context

RRID:PREFIX_1234567

(Human readable citation information, RRID:PREFIX_1234567)

RRID:PREFIX_1234567

Each Resource has a dedicated webpage

N2T.NET/RRID:SCR_003086.JSON



Resource Summary Report

Q New Search

Previous Search Results

Home / Resource Reports / Tools / Resource Summary Report



Resource Name

Africa Centre for Health and Population Studies

RRID:SCR_008964

Claim ownership

Basic metadata:
other IDs
old/alt URLs
RORs, PIDs

Relationships to
other resources



Resource Information

URL: <http://www.africacentre.ac.za/Default.aspx?tabid=69>

Proper Citation: Africa Centre for Health and Population Studies (RRID:SCR_008964)

Description: Longitudinal datasets of demographic, social, medical and economic information from a rural demographic in northern KwaZulu-Natal, South Africa where HIV prevalence is extremely high. The data may be filtered by demographics, years, or by individuals questionnaires. The datasets may be used ...[more]

Abbreviations: Africa Centre Datasets, Africa Center Datasets, AfricaCentre Datasets

Synonyms: Africa Centre for Health and Population Studies Datasets, Africa Center for Health and Population Studies

Resource Type: data or information resource, data set

Keywords: medicine, hiv infection, economic, demography, biology, social, longitudinal

Expand All

is listed by
is listed by
has parent organization

re3data.org
DataCite
University of Kw

Citations of
resource,
PMID, *DOI



Usage and Citation Metrics

We found 4 mentions in open access literature.

View full usage report

Most recent articles:

Hontelez JA, et al. (2016) The Effect of Antiretroviral Treatment on Health Care Utilization in Rural South Africa: A Population-Based Cohort Study. PloS one, 11(7), e0158015. (PMID:27384178)

Rosenberg M, et al. (2015) Relationship between Receipt of a Social Protection Grant for a Child and Second Pregnancy Rates among South African Women: A Cohort Study. PloS one, 10(9), e0137352. (PMID:26398678)

Joubert J, et al. (2012) Characteristics, availability and uses of vital registration and other mortality data sources in post-democracy South Africa. Global health action, 5, 1. (PMID:23273252)

Check Google Scholar for all resource mentions.

Author Network

A list of researchers who have used the resource and an author search tool

Find mentions based on location



City

Q Search using your location

Ratings
and alerts



Ratings and Alerts

No rating or validation information has been found for Africa Centre for Health and Population Studies.

No alerts have been found for Africa Centre for Health and Population Studies.

Report Information



Data and Source Information

Source: SciCrunch Registry



RRIDs for
Cores come
from ABRF
Core
Marketplace;
Instruments
were seeded
by UsedIT



Break into the human workflow!

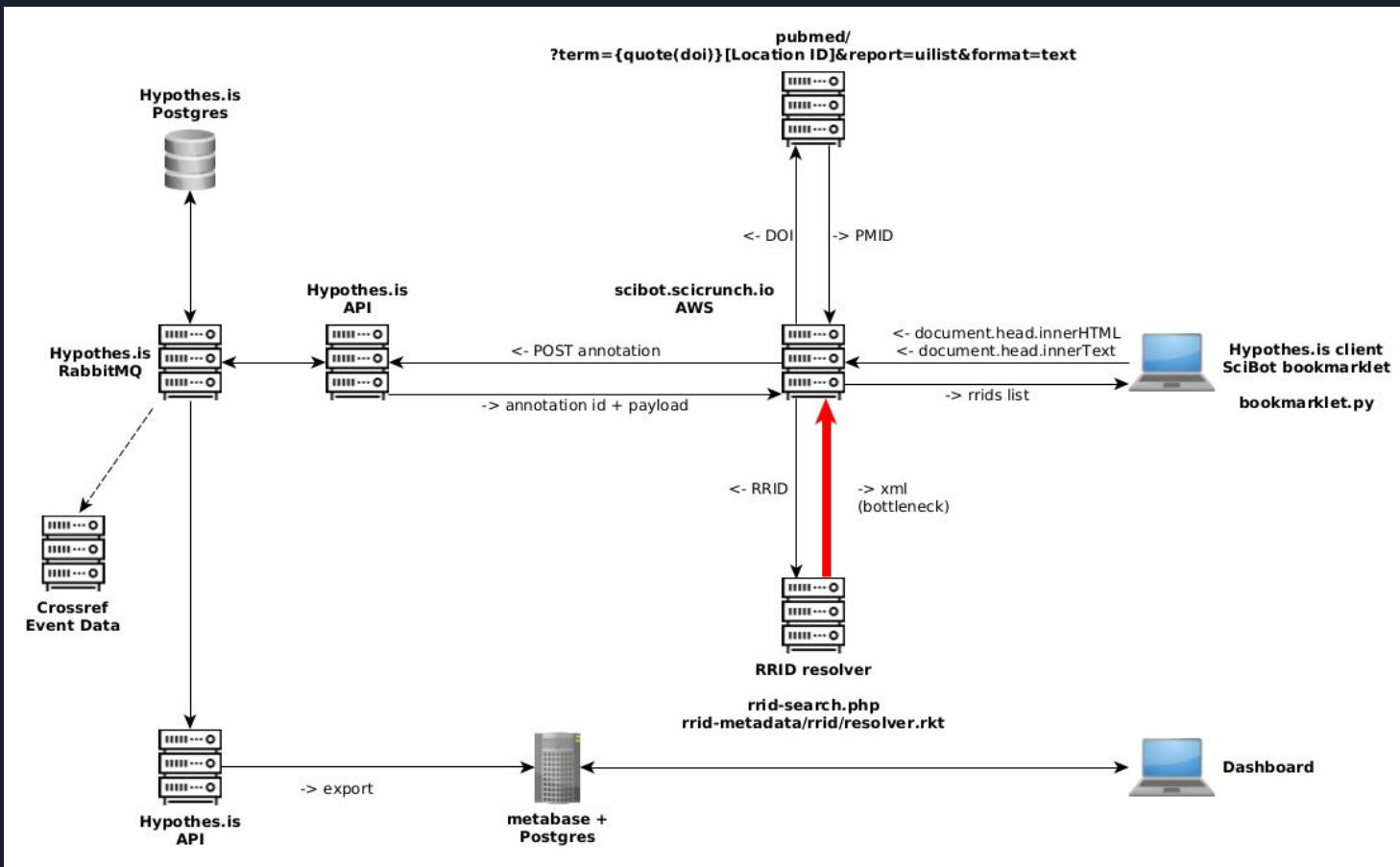
Researcher:
I want to publish
my paper!



Editor: Go to website, look
up your tools, paste the
RRIDs into your paper.



RRID crawling architecture



RRID mentions are found by curators or are text mined



Resource Name ?

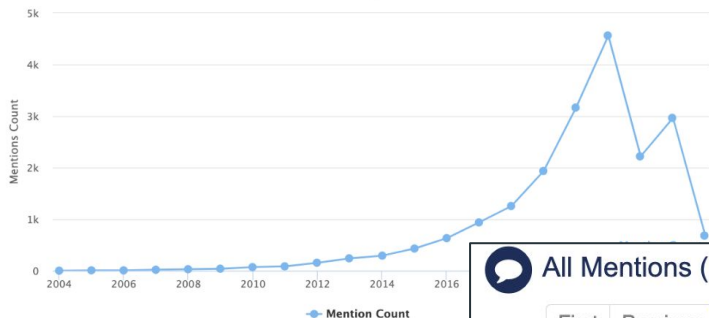
STRING

RRID:SCR_005223



Usage ?

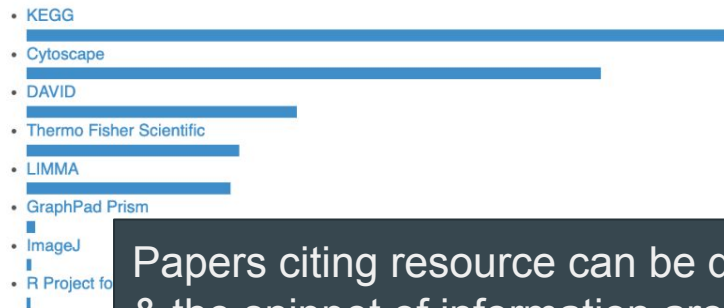
Articles by Year



* Resource mentions from this and last year may still be in process.

Other research resources frequently mentioned with this resource ?

*Please note that when co-mention number is small, resources listed here do not mean that used together. We are also aware that commercial organizations are in the list and we are improving this service by removing these organizations.



Papers citing resource can be downloaded & the snippet of information around mention is available, can be voted on!



All Mentions (19747 mention)

First Previous 1 2 3 4 5

Stener-Victorin E, et al. (2024) Proteomic analysis shows increased type I fibers and ectopic fat accumulation in skeletal muscle from women with type 2 diabetes. *Journal of Cachexia, Sarcopenia and Muscle*. -- r (RRID:SCR_001575) and STRING (RRID:SCR_005223). Ontology terms with a q-value [Verified RRID]

Marques M, et al. (2024) Influenza A virus propagation requires the activation of the unfolded protein response and the accumulation of insoluble proteins. *Journal of Virology*. -- RRID:SCR_005223 [Verified RRID]

Carmona A, et al. (2024) Metal dyshomeostasis in the substantia nigra of patients with Parkinson's disease or multiple sclerosis. *Journal of Neurochemistry*. -- rks was performed using STRING (RRID:SCR_005223) version 11.0 (Szklarczyk et al [Verified RRID])

Guisse AJ, et al. (2024) TDP-43-stratified single-cell proteomics of postmortem human spinal motor neurons. *Journal of Proteomics*. -- UM <https://string-db.org/>; RRID:SCR_005223 Other [Verified RRID]

Piękniewska, Haak et al 2023
<https://onlinelibrary.wiley.com/doi/10.1002/leap.1586>



Current status (~~2018~~ 2024)

- ~~~6K~~ 79K PMIDs with RRIDs
- ~~~55K~~ 819K total RRIDs in papers
- ~~~20K~~ 145K unique RRIDs used



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Cell-autonomous role of leucine-rich repeat kinase in the protection of dopaminergic neuron survival

[Jongkyun Kang](#),^{#1,†} [Guodong Huang](#),^{#1,†} [Long M](#)

Andrew B West, Reviewing Editor and Ma-Li Wo

Andrew B West, Duke University United States ;

[Contributor Information](#).

► [Author information](#) ► [Copyright and License info](#)

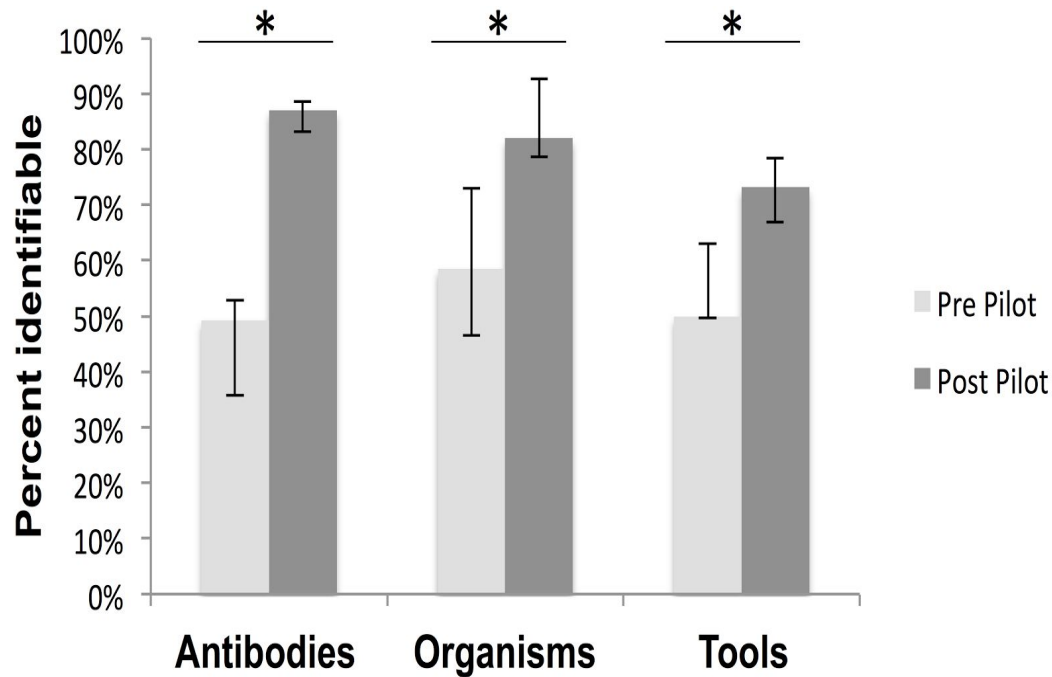
Materials and methods

Key resources table

Antibody	polyclonal)	Alomone Lab	RRID: AB 2756700
	Anti-LRRK2 (rabbit		Cat# Ab133474 ;
Antibody	monoclonal)	abcam	RRID: AB 2713963
	Anti- α -Vinculin (mouse		Cat# 05-386;
Antibody	monoclonal)	Millipore	RRID: AB 309711
	Anti-GFP (rabbit		Cat# ab290;
Antibody	polyclonal)	abcam	RRID: AB 303395

Now we look
for antibodies
with robots

RRIDs improve identifiability



Authors are 97% accurate when reporting reagents by RRID

Bandrowski et al, 2015

Outline

- How are RRIDs implemented by community
- How are RRIDs impacting rigor and reproducibility
- Emerging use cases for these PIDs

RRID COMMUNITY IMPLEMENTATION



Immunofluorescence staining protocol for co-staining of fetuin-A and GFAP in older human autopsy tissue via Tyramide Signal Amplification

PLOS One

Miriam Heinen¹

¹RWTH Aachen University

1 Works for me dx.doi.org/10.1371/journal.pone.0206597

Miriam Heinen

ABSTRACT

This staining was performed to sections (1 µm thickness) of for by a polyclonal rabbit-anti-human a polyclonal goat-anti-rabbit Ale

11070, RRID:AB_2534114, dilution 1:300).Fetuin-A was detected by using a monoclonal IgG2a mouse-anti-human antibody (clone MAHS-1, dilution 1.0 µg/mL), raised against purified human fetuin-A in our laboratories. Antibody binding was detected by tyramide signal amplification using a secondary biotinylated polyclonal goat-anti-mouse antibody (Dako Cat# E0433, RRID:AB_2687905, dilution 1:300) and a Tyramide Signal Amplification Kit (Life Technologies, Carlsbad, USA, T-20933). To minimize lipofuscin autofluorescence, sections were counterstained with Sudan Black (Sigma-Aldrich, Munich, Germany, 199664, dilution 0.3% in 70% ethanol, 5 minutes). Nuclei were stained with DAPI (Sigma-Aldrich, Munich, Germany D9542, dilution 0.25 µg/ml, 5 minutes). Sections were mounted with Immumount (Thermo Scientific, Waltham, USA, 9990402) and stored at 8°C in the dark.

EXTERNAL LINK

<https://doi.org/10.1371/journal.pone.0206597>

...This protocol used the services of the Network for Pancreatic Organ Donors with Diabetes (RRID:SCR_014641)...

Dear Sally,
Blah blah blah
Sincerely,



Using our core facility? Please cite Network for Pancreatic Organ Donors with Diabetes (RRID:SCR_014641) in your manuscript.

Resource Name

Network for Pancreatic Organ Donors with Diabetes

RRID:SCR_014641 [Login to claim ownership](#)

Resource Information

URL: <http://www.jdrnpod.org>

Proper Citation: Network for Pancreatic Organ Donors with Diabetes (RRID:SCR_014641)

Description: A collaborative research project that supports nPOD approved diabetes investigators by freely providing rare and difficult-to-obtain tissues from type 1 and type 2 diabetes donors. Interested researchers are encouraged to apply to obtain nPOD tissues, or to request access to analyze cases i ...

All Mentions (122 mentions) [Download Mentions](#)

First Previous 1 2 Next Last Page 1 of 2 (1 ~ 100 of 122)

Cohrs CM, et al. (2024) Bridging the Gap: Pancreas Tissue Slices From Organ and Tissue Donors for the Study of Diabetes Mellitus. *Diabetes* 73(1):1-12. [DOI:10.2337/diabetes.73.1.1](#) ; gan donors with Diabetes (nPOD, [RRID:SCR_014641](#)), a collaborative type 1 diabetes; gan donors with [RRID:SCR_014641](#), a collaborative type 1 diabetes [[Verified RRID](#)]

Drotar DM, et al. (2024) Impaired islet function with normal exocrine enzyme secretion is consistent across type 1 diabetes. *Diabetes* 73(1):1-12. [DOI:10.2337/diabetes.73.1.1](#) (PMID:38405840)

-- m at the University of Florida ([RRID:SCR_014641](#), <https://www.jdrnpod.org>). For [[Verified RRID](#)]

Costanzo A, et al. (2024) Repositioning the Early Pathology of Type 1 Diabetes to the Extracerebral Vasculature. *Diabetes* 73(1):1-12. [DOI:10.2337/diabetes.73.1.1](#) .T., M.G.F., and P.B.S.). nPOD ([RRID:SCR_014641](#)) is a collaborative type 1 diabetes [[Verified RRID](#)]

Companies back RRIDs

ThermoFisher
SCIENTIFIC

Primary Antibodies ▾

Search

Application ▾

Target Species ▾



Invitrogen

PGK1 Monoclonal Antibody (22C5D8)

Catalog # 459250

250 µg

40 Published Figures

123 References

[View all \(10\) PGK1 antibodies](#)

Cite PGK1 Monoclonal Antibody (22C5D8)

The following antibody was used in this experiment: PGK1 Monoclonal Antibody (22C5D8) from Thermo catalog # 459250, RRID AB_2532235.

[Click to Copy](#)

[Datasheet](#)

[Create Citation](#)

[Questions & Answers](#)

[Tech Support](#)

[What is a shared list?](#)

[Performance Guarantee](#)



AVAILABILITY

Strain Detail Sheet



Strain Name: STOCK Tg(Sox9-EGFP)EB209Gsat/Mmucd
Stock Number: 011019-UCD
Citation ID: RRID:MMRRC_011019-UCD
Major Collection: GENSAT

COPY RRID CITATION TO CLIPBOARD ?



These plasmids were created by your colleague in an article in which the plasmids were described, or in future publications.

For your **Materials & Methods** section:

CelTag Plasmid was a gift from David Engelke
RRID:Addgene_66562)



OVERVIEW HOW IT'S MADE HOW IT'S USED HUSBANDRY LEGAL

Popular Leap License

NOD.Cg-Prkdc^{scid} Il2rg^{tm1Wjl}/SzJ

[What Does This Nomenclature Mean?](#)

Strain #:005557

RRID:IMSR_JAX:005557 ⓘ

Common Name: NSG | Also Known As: NOD-*scid* IL2Rgamma^{null}, NOD-*scid* IL2Rg^{null}, NOD *scid* gamma



Cellosaurus 1-5c-4 (CVCL_2260)

Cell line name	1-5c-4
Synonyms	Clone 1-5c-4; Clone 1-5c-4 WKD of Chang Conjunctiva
Accession	CVCL_2260
Resource Identification Initiative	To cite this cell line use: 1-5c-4 (RRID:CVCL_2260)
Comments	Problematic cell line: Contaminated. Shown to be a HeLa transformant: NCBI_TaxID; 333761; Human papilloma virus Omics: Transcriptome analysis.
Disease	Human papillomavirus-related endocervical adenocarcinoma
Species of origin	Homo sapiens (Human) (NCBI Taxonomy: 9606)

July 2016

eLife joins the Resource Identification Initiative

Thursday, July 7, 2016 - 09:05

To promote reproducibility in scientific research, the community is encouraged to use Research Resource Identifiers, encouraging a description of the research resources within the

Resources used in experimental work are often a barrier to replicating the results. That is why we have the [Research Initiative \(#RII\)](#), a community-led project that originally aims to improve reproducibility in biomedical and chemical research and to create unique Research Resource Identifiers (RRIDs) for research resources.

RRIDs must be machine-readable, free to generate, and available to all publishers and journals.



Aug 2016

Search

Journals Books Meeting Abstracts Endocrine News Advertise

[Home](#) > [Instructions to Authors](#) > [Endocrinology Instructions to Authors](#)

Antibody Table

It is the policy of *Endocrinology* to require authors using antibodies for immunohistochemistry, immunocytochemistry, western blots, immunoblots, immunoneutralization, or related methodology, to submit an Antibody table. This table should be numbered to indicate its position in the sequence of tables in the article (e.g. Table 1). In the Methods section, primate positive or negative controls, antibody validation, lot number, and ces. Beginning in September 2016, authors should also ascertain whether the Research Resource Identifier (RRID) by consulting the [Antibody Registry](#) and imation, if available, in the Methods section and/or the Antibody table of the



An Official Journal of SOCIETY for NEUROSCIENCE

RRIDS

JNeurosci encourages use of Research Resource Identifiers (RRIDs) through the [Resource Identifier](#) used in the course of scientific research. The project helps address concerns of reproducibility by providing a standard way to identify research resources. RRIDs can be used to link readers to external resources and enable search engines to return all pages that mention a specific resource.

To find an RRID: visit <https://scicrunch.org/resources> and enter your search term(s).

- Antibodies: searching for the catalog number usually narrows the search to only a few relevant results
- Cell Lines: searching for the catalog number of an established cell line is usually best, searching for keywords can result in a large number of results.
- Organisms: you can include PubMed IDs (PMIDs) in your search or filter your search results by PMID
- Software tools: usually the name of the tool (MATLAB or ImageJ) or the institution where it is housed

Search help is available at: rii-help@scicrunch.org.

Once you have located an RRID, insert "RRID:" plus the identifier in the appropriate location in the m

an open-access journal of  SOCIETY for NEUROSCIENCE[HOME](#) [ARTICLES](#) [TOPICS](#) [ALERTS](#) [FOR AUTHORS](#)

FOR AUTHORS

Jun 2016

[PDF Information for Authors](#)

eNeuro, an open-access journal from the Society for Neuroscience, publishes high-quality, peer-reviewed research focused solely on the field of neuroscience. *eNeuro* embodies a scientific vision that offers a new experience for authors and readers, all in support of SfN's advance understanding of the brain and nervous system.

Journals back RRIDs

2000+ journals have RRID containing papers
>5000 journals indexed in Pubmed



Explore

Oct 2016

Cell Press STAR Methods

Cell Press is pleased to introduce a new format for reporting methods that replaces the current Methods format. The new format, Structured Transparent Accessible Reporting (STAR), will be introduced in the January 2018 issue of *Cell*. The format is designed to improve the transparency and accessibility of methods reporting, and to improve the rigor and reproducibility of research.

Text Format

The Methods and Resources

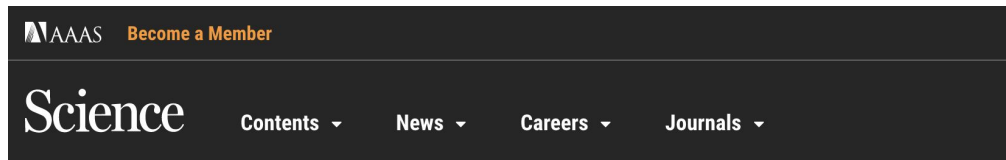
- CONTACT FOR
- EXPERIMENTAL
- METHOD DETAIL
- QUANTIFICATION
- DATA AND SOFTWARE
 - Software
 - Data Resources
- ADDITIONAL RE

Table Format

METHODS AND RESOURCES

KEY RESOURCES TABLE		
Reagent or Resource	Source	Identifier
Antibodies		
Rabbit monoclonal anti-BMAL1	Abnova	N/A
Rabbit monoclonal anti-SMK1	Cell Signaling	Cat. #2708, RRID: AB_3234367
Rabbit monoclonal anti-phospho-S6 (S240/244)	Cell Signaling	Cat. #5364, RRID: AB_3876554
Rabbit monoclonal anti-Phospho-SMK1 (T636)	Cell Signaling	Cat. #9234, RRID: AB_7539051
Rabbit monoclonal anti-Phospho-SMK1 (T636)	Cell Signaling	Cat. #9204, RRID: AB_7539051
BMAL1/USP43 antibody	Sigma gift prior to commercial release	N/A
USP43 antibody anti-FLAG M2	Sigma	Cat. #F104, RRID: AB_246805
Critical Commercial Assays		
Firefly Luciferase	Perkin-Elmer	NEG7720-MAC
SPINTEC 303 Protein Labeling Mix	Kodak	N/A
SPINTEC assay	Kodak	N/A
Radioactive 125I KCl	Isotop	44301200
Sequences		
Raw and analysis data	This paper	GED: GED53473
Human reference genome NCBI build 37, GRCh37		http://www.ncbi.nlm.nih.gov/genome/assembly/build/37/numbers/
Experimental Models, Cell Lines		
Retineral strain 210A T18	Invitrogen	12297-016
Cell line: US-QS Per2-Luciferase	Johannesbach lab	N/A
Cell line: 293 T cells	ATCC	Cat. # CRL-11068
Cell line: Human embryonic Kidney line	National Gene Vector Biotechnology	N/A
Experimental Models, Organisms/Strains		
Mouse line: C57BL/6	Jackson Labs	001294, RRID: MGI_1050933
Mouse line: B6.129-SvEvTac	Jackson Labs	000667, RRID: MGI_105093
Recombinant DNA		
BMAL1-GFP	SGMTE Archive	Clona K2001501
pFL1-NCV	Adipogen	Clona 156781
pASD-1-pHn-GCMBP6-369PE	Chen et al., 2013	N/A
ΔH2O1-pHn-GCMBP6 terminal vector	Tyler Jacker lab	N/A
Genome Browser Resources		

RRIDs are part of reproducibility checklists (ARRIVE 2.0, STAR methods, MDAR, Landis criteria**)



SHARE



SCIENCEHOUND

Jeremy Berg's exploration of data and analyses underlying issues relevant to the scientific enterprise. The views presented are Jeremy's and may not represent official editorial positions of AAAS.



By Jeremy Berg



Towards minimal reporting standards for life sciences

By [Jeremy Berg](#) | 9 November, 2018

Transparency in reporting benefits scientific communication on many levels. While specific needs and expectations vary across fields, the effective use of research findings relies on the availability of core information about research materials, data, and analysis. These are the underlying

One example: <https://science.sciencemag.org/content/suppl/2020/04/29/368.6490.527.DC1>

Editor-in-Chief of Science asks all authors to fill in & include the MDAR Reproducibility Checklist

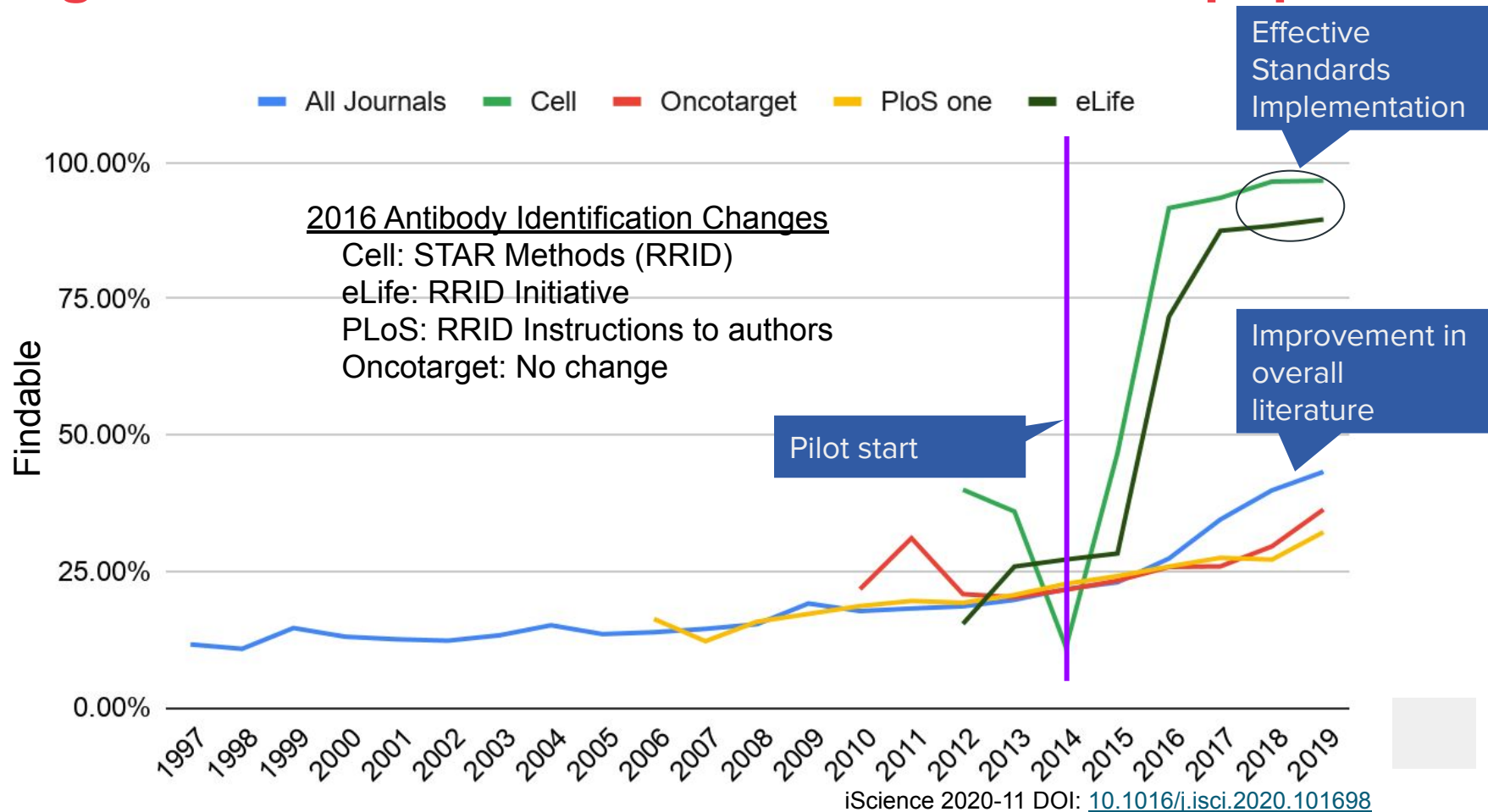


Materials Design Analysis Reporting (MDAR) Checklist for Authors

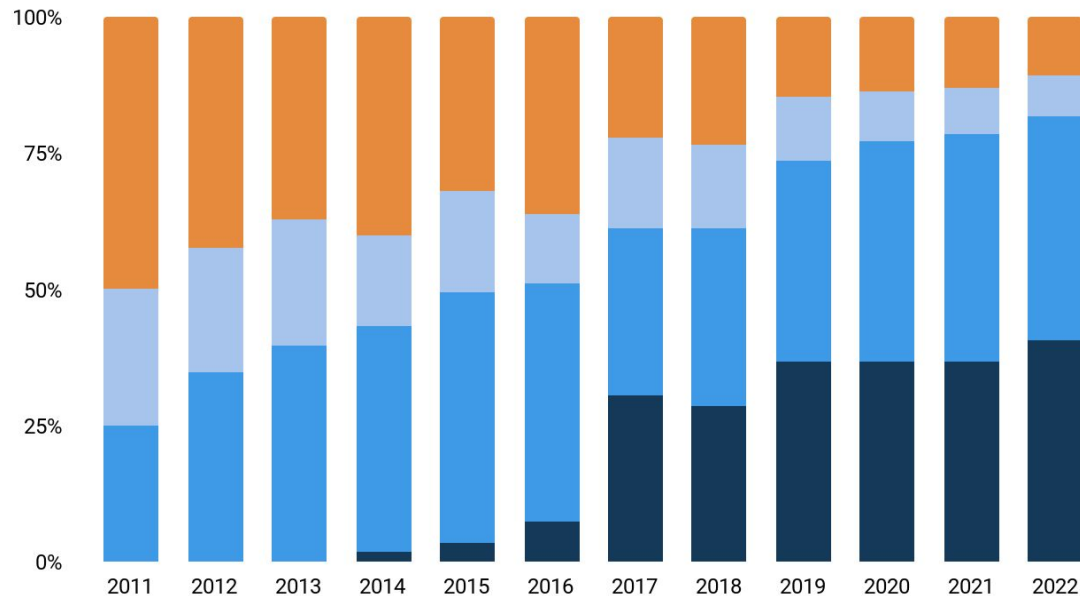
Materials

Antibodies	Yes (indicate)
For commercial reagents, provide supplier name, catalogue number and RRID , if available.	Materials
Cell materials	Yes (indicate)
Cell lines: Provide species information, strain. Provide accession number in repository OR supplier name, catalog number, clone number, OR RRID	Materials

Using IDentifiers for Antibodies makes better papers



Percentage of references per category when MMRRC mice were used



RRID project starts

year

RRIDs support from MMRRC

Nickname provided, mouse could not be found

Sripada A, et al. (2021) Sprouty2 positively regulates T cell CSK and LCK kinases. PLoS biology , 19 (3) , e3001063. (PMID:3501063)
-- m The Jackson's Laboratory) and **Spry2^{fl}** (MMRRC, #34 840-JAX)

Name provided, RRID found

cells international , 2020 , 8878412. (PMID:32733573)
-- 5xFAD mice (**B6SJL-Tg(APP^{Sw}FILon,-PSEN1^{M146L}?L280V)**) in accordance with the laboratory guidelines.

Catalog number provided

Pan JX, et al. (2021) Osteoblastic Swedish mutant APP expedites brain amyloidosis. PLoS ONE , 16 (12) , e0243655. (PMID:34824365)
-- ed from The Jackson Laboratory (**MMRRC stock #34 840-JAX**)

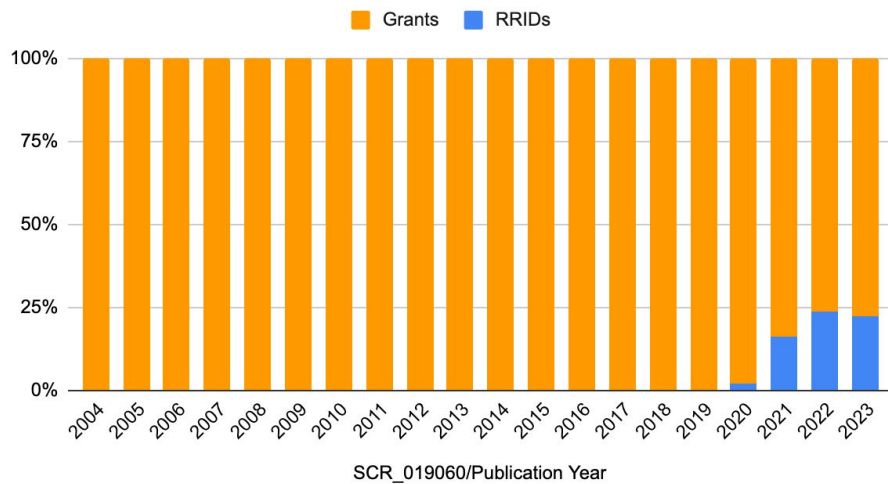
RRID provided

Liu L, et al. (2020) Preparing Viable Hippocampal Slices from 5xFAD Mice. J. Vis. Exp. (2020) , e60000. (PMID:33000000)
-- xFAD mice (**RRID:MMRRC_034840-JAX**, Jackson Laboratory)

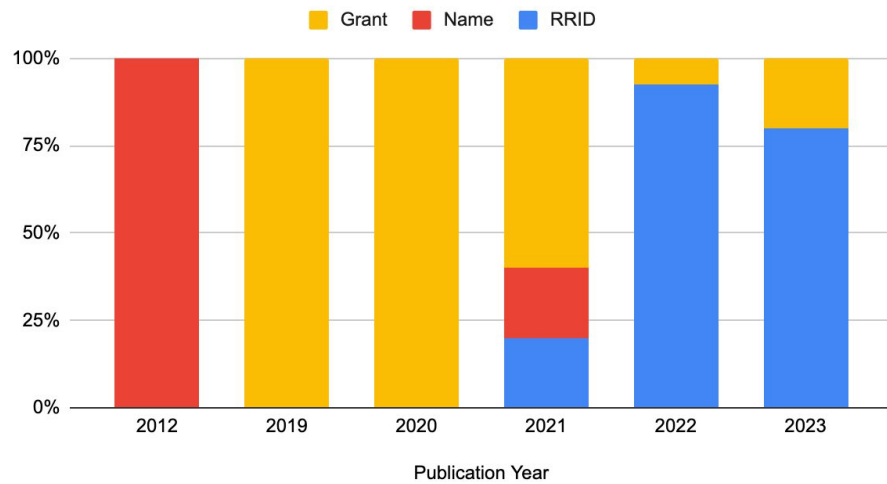
How many RRID citations do we get for cores?



UNC Microscopy Core Facility



UCSC Microscopy Core Facility



Established cores may draw a smaller benefit than newer cores, but the grant citations come largely from the core staff as part of progress reports!



IMPORTANT PRODUCTS RECALLED

SYLVIA'S SIZZLIN HOT SPICE
UPC 60862300051



- ❖ Reason: The Manufacturer states that this product **may contain a trace amount of Peanuts.**
- ❖ If you bought this item, please bring it to the head cashier for a refund.

CLEAR CHOICE
Orange Mango Water **ONLY**
1 LTR
UPC 61500-00558



- ❖ Reason: The Manufacturer states that this product **may contain a trace amount of Tree Nuts**
- ❖ If you bought this item, please bring it to the cashier for a refund.

Mrs. T Pierogies Mozzarella, Tomato & Basil Flavor ONLY
(16 oz)
UPC Code: 4116400042
Best used By Date: 05/20/2016 & 07/15/16



- ❖ Reason: The Manufacturer states that this product **may contain small pieces of plastic**
- ❖ If you bought this item, please bring it to the head cashier for a refund.

TALENTI GELATO SEA SALT CRML
SEA SALT CARAMEL **ONLY**
8 / 16FZ
UPC 18685200024
Best If Used By: Equals 05/19/2015



- ❖ Reason: Unilever company, is recalling a limited number of jars of Talentì® Gelato & Sorbetto Sea Salt Caramel Gelato because they may inadvertently contain peanuts (as peanut butter), which are not listed as an ingredient on the label.
- ❖ If you bought this item, please bring it to the head cashier for a refund.

3.2.15

Can scientific objects be recalled?

Using IDeNTifiers for resources makes better (reproducible) papers

Resource Identification Portal

Cell Lines

1-5c-4

ON PAGE 1 SHOWING 4 OUT OF 4 RESULTS FROM 1 SOURCES

1-5c-4 cell line, ECACC

http://web.expasy.org/cellosaurus/CVCL_2260

Cite this **ECACC Cat# 88021103, RRID:CVCL_2260**

Organism: Homo sapiens

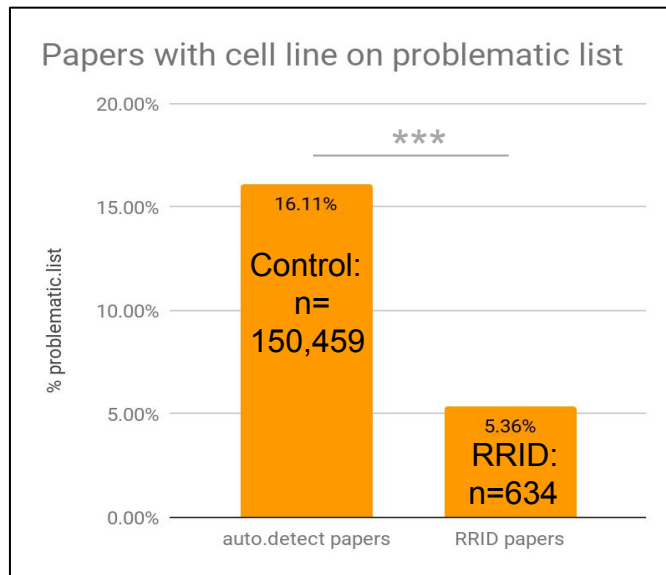
Disease: Cervical adenocarcinoma

Category: Cancer cell line

Comment: Problematic cell line: Contaminated. Shown to be a HeLa derivative

From Current Category

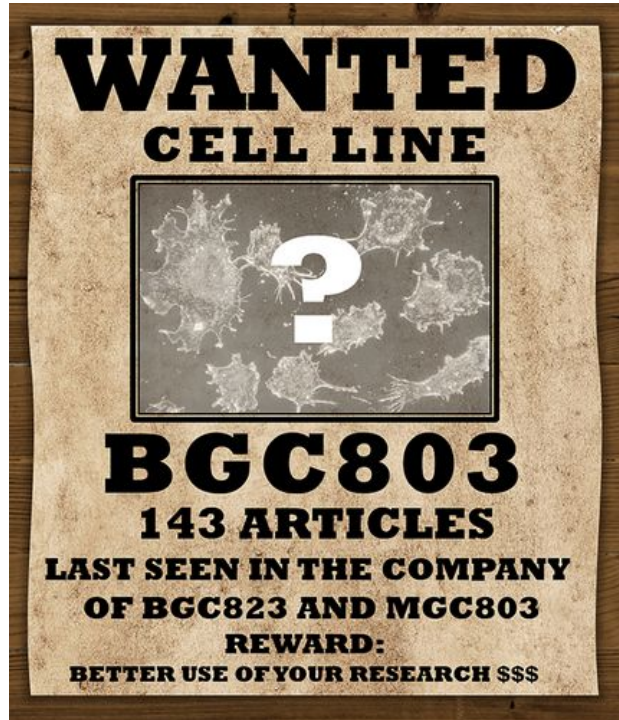
Cellosaurus: Cell Lines (4) | Cite This | View Source Information



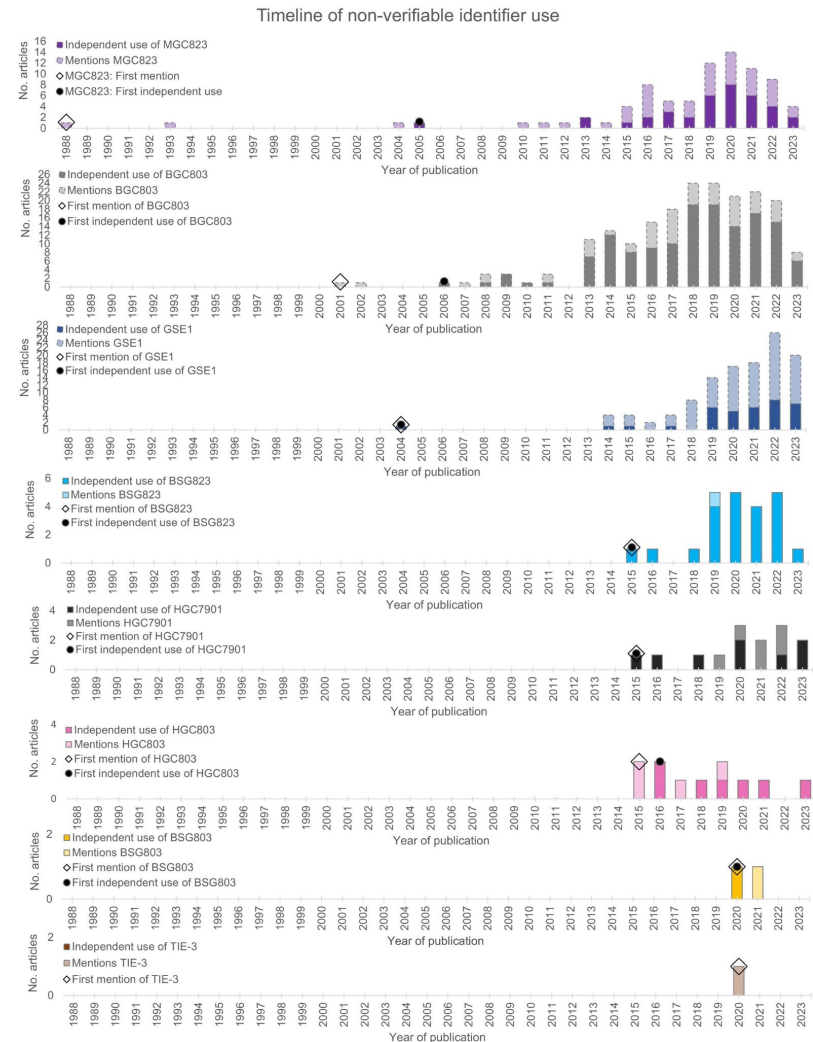
Babic et al, eLife, 2019

Authors see
warning about
cell lines
=
66% decrease
in naughty cell
lines

Misspelled cell lines permeate the literature



Oste et al 2024; <https://doi.org/10.1002/ijc.34995>



Using IDentifiers for resources makes better (reproducible) papers

 Antibody Name ⓘ

Anti-Choline Acetyltransferase Antibody
RRID:AB_2079751 

 Antibody Information ⓘ

URL: http://antibodyregistry.org/AB_2079751

Proper Citation: (Sigma-Aldrich Cat# AB144P (also AB144P, AB144P-1ML, AB144P-1ML))

Target Antigen: Choline Acetyltransferase

Host Organism: Mouse

Clonality: Monoclonal

Comments:  Expand All

 Usage ⓘ

We found 4 uses for this antibody

[View full usage](#)

Most recent uses

 Ratings and Alerts ⓘ [Report Information](#) ⓘ

- Mouse colon PACT whole wall technique staining in Submucosal plexus in Soma shows few or none. Mouse colon PACT whole wall technique staining in Submucosal plexus in Fibers shows few or none. Mouse colon PACT whole wall technique staining in Myenteric plexus in Soma shows moderate immunostaining. Mouse colon PACT whole wall technique staining in Myenteric plexus in Fibers shows weak immunostaining. Mouse colon Whole mount technique staining in Submucosal plexus in Soma shows weak immunostaining. Mouse colon Whole mount technique staining in Submucosal plexus in Fibers shows moderate immunostaining. Mouse colon Whole mount technique staining in Myenteric plexus in Soma shows moderate immunostaining. Mouse colon Whole mount technique staining in Myenteric plexus in Fibers shows weak immunostaining. - Wang et al. (2021) via SPARC <https://sparc.science/resources/7Mldjv3RIVrQ11hpBC8PK>

No alerts have been found for Anti-Choline Acetyltransferase Antibody.

 [View More at BIOMED RESOURCE WATCH](#)

Antibody reports come from:

ENCODE
psyENCODE
YCharOS

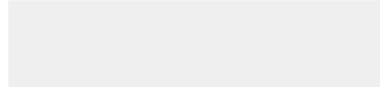
Core facilities (10+ universities)

****Software tools** with reported problems

*****Animals** that don't recapitulate a disease



So why is the reagent problem not solved?
Making papers better requires staff time



What does it do: SciScore is an automated and multifaceted tool based on AI and deep learning technology, that evaluates manuscripts for adherence to several key reporting criteria for rigor and reproducibility introduced over the years by funding agencies and journals. Using criteria from various reporting standards (e.g. the NIH, MDAR, and ARRIVE), SciScore generates three reports and a score for every submission.

What problem does it solve: SciScore helps ensure key resources like antibodies, cell lines, and organisms, are described in enough detail (e.g. vendor names, catalogue numbers, RRIDs, etc.), so that other researchers can try to replicate a studies findings.

Who are the users: These materials assist researchers, peer reviewers and editors, in improving the quality and reliability of scientific research by automatically reporting detected criteria of interest for future review.

Funding: SBIR R44MH119094 & sustained by partners

	1	2	3	4	5
Ethics					
Institutional Review Board Statement	x				
Consent Statement	x				
Institutional Animal Care and Use Committee Statement	x	x			
Field Sample Permit	x				
General Euthanasia and Agent					x
Study Participation					
Inclusion and Exclusion Criteria	x	x	x	x	x
Attrition	x	x			x
Sex as a biological variable	x	x	x	x	x
Subject Demographics					
Age		x	x		
Weight		x			
Randomization	x	x	x	x	x
Blinding	x	x	x	x	x
Power Analysis	x	x	x	x	x
Replication Information					
Type of replication	x				x
Cell Line Confirmation					
Cell Line Authentication	x				x
Cell Line Contamination Check	x				x
Code Information & Availability	x				
Data Information & Availability	x	x			x
Protocol Identifiers					
Clinical Trials		x		x	
Lab Protocols	x				

1. MDAR / 2. ARRIVE / 3. CONSORT / 4. AVMA Guidelines / 5. Landis et al., 2013 (NIH)

Partners

AACR
American Association
for Cancer Research

consensus
american
physiological
society

MICROBIOLOGY
SOCIETY
scienceOPEN.com
research + publishing network

L C S B
UNIVERSITÉ DU
LUXEMBOURG

American Heart Association

**Chan
Zuckerberg
Initiative**

bioRxiv
THE PREPRINT SERVER FOR BIOLOGY
medRxiv
THE PREPRINT SERVER FOR HEALTH SCIENCES

Rigor & Transparency Index

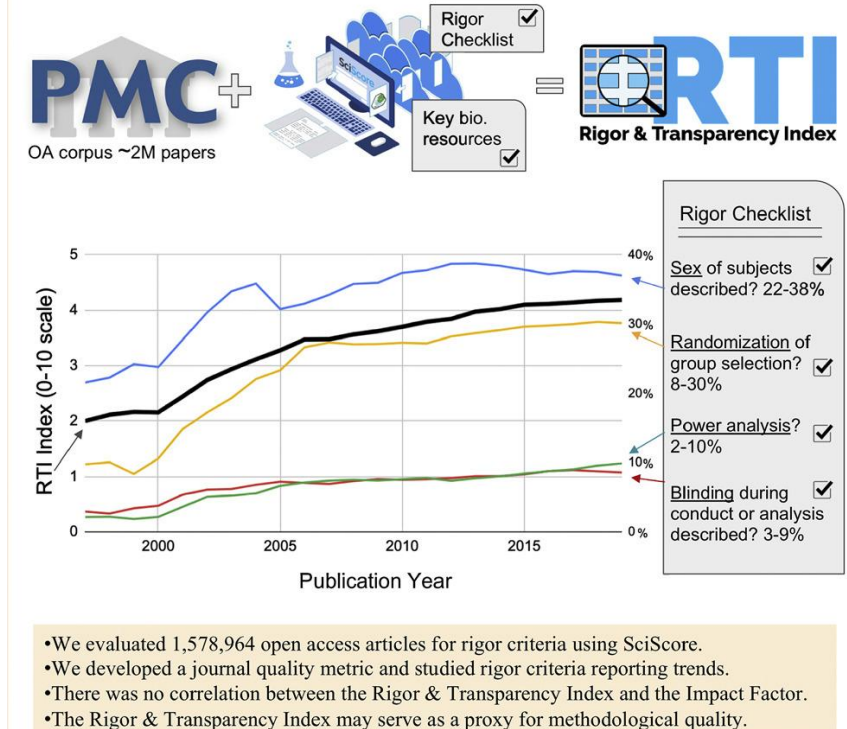
What does it do: The RTI is a new journal metric of quality for assessing biological and medical science methods, based on the degree to which journal articles were addressing reproducibility guidelines.

What problem does it solve: How can we score the science published in journals itself as opposed to counting tweets or citations?

What are the users: It can be used as a selection criterion for authors who want to be associated with more reproducible journals, or by editors to assess the reproducibility of their journal, or by publishers as benchmarking for their journal portfolio.

Menke et al, iScience. 2020

<http://dx.doi.org/10.1016/j.isci.2020.101698>



Are these scores meaningful?



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**REPRODUCIBILITY
PROJECT**
Cancer Biology

[Overview](#) [Contributors & Supporters](#) [Press & News](#) [Get Involved](#) [Papers on eLife](#) [Data & Code on OSF](#)

Project Overview

The *Reproducibility Project: Cancer Biology* was an 8-year effort to replicate experiments from high-impact cancer biology papers published between 2010 and 2012. The project was a collaboration between the [Center of Open Science](#) and [Science Exchange](#) with all papers published as part of this project available in a [collection at eLife](#) and all replication data, code, and digital materials for the project available in a [collection on OSF](#).

When preparing replications of **193 experiments** from **53 papers** there were a number of challenges.

2%
of experiments with open data

70%
of experiments required asking for key reagents

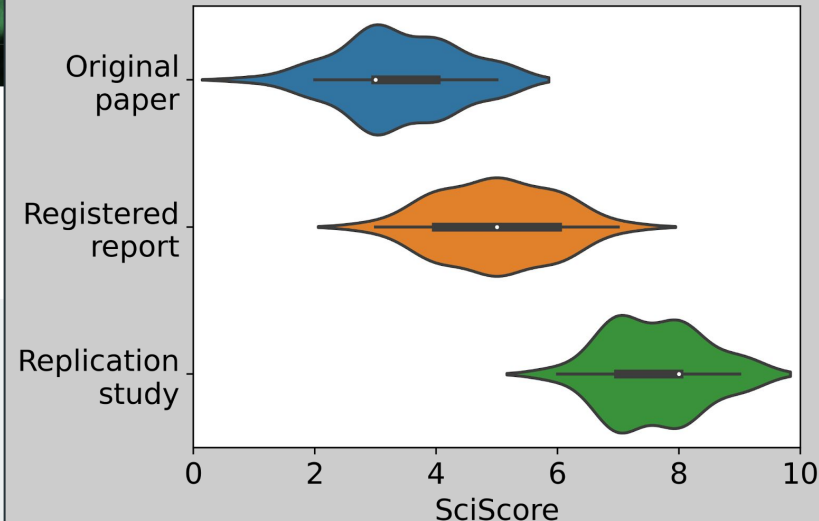
69%
of experiments needing a key reagent original authors were willing to share

0%
of protocols completely described

32%
of experiments the original authors were not helpful (or unresponsive)

41%
of experiments the original authors were very helpful

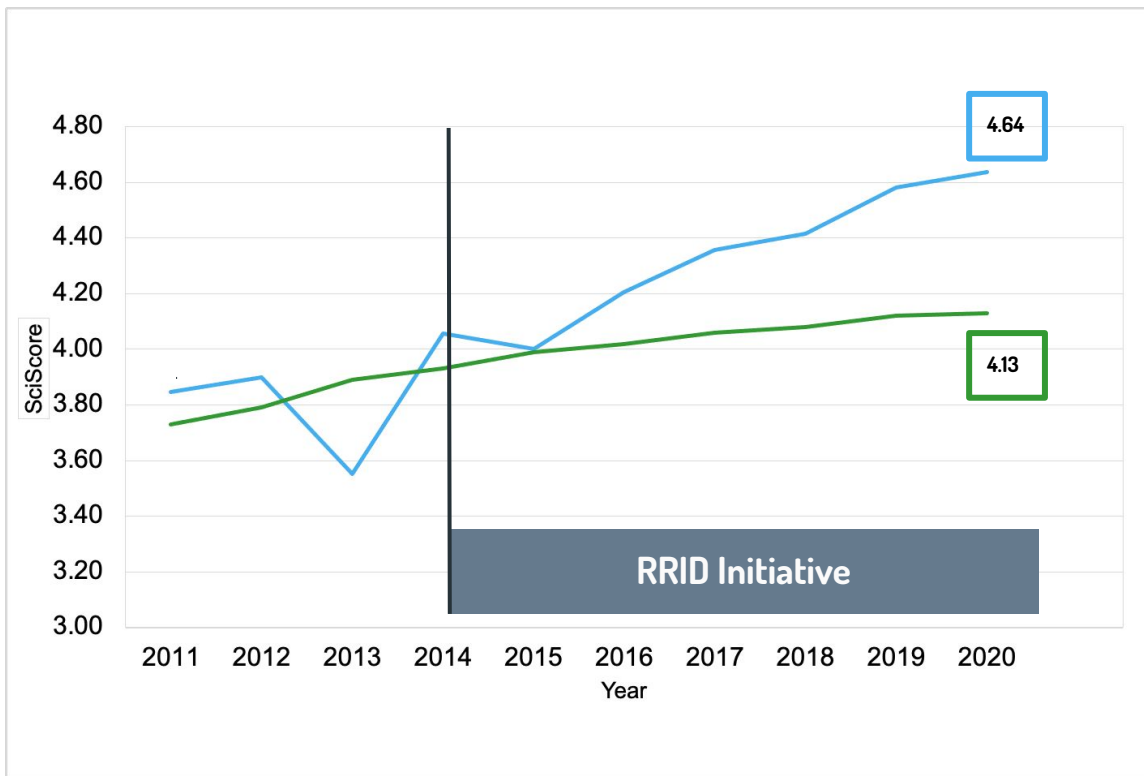
Using work by the Reproducibility Project: Cancer Biology, we determined that replication papers scored significantly higher than the original papers, which according to the project required additional information from authors to begin replication efforts.



Menke et al, JMIR, 2022

Use of MMRRC mouse repository & rigor?

Average SciScore for **MMRRC** compared with average SciScore for **all available publications**



Scores are significantly different
(MMRRC papers 907;
All papers 2.1 mln)

Is the difference
meaningful?



We want you to consider scientific objects and how these other things in the paper can also be useful for discussion of PIDs.

Comments/ please contact at
abandrowski@ucsd.edu



Co-funded by
the European Union

