WHY SHOULD EVERYONE SUPPORT TRANSPARENCY OF THE SCIENTIFIC LITERATURE EFFORTS?

QUESTIONS:
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Lost of money waste due to irreproducibility of science

This causes delays drug development, increases demands on resources and drives up research costs.

Factors to improve reproducibility are known
- Research reagents
- Investigator bias (Landis 2012 Criteria)

**REPRODUCIBILITY CRISIS**

**How do we solve the resource problem?**

https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.1002165
https://www.ahajournals.org/doi/full/10.1161/STROKEAHA.108.515957
RRID AUTHOR’S WORKFLOW

https://scicrunch.org/resources

RRID Portal

>500 Journals direct author to RRID portal

Author searches for a resource

Author copies "Cite This" text into manuscript

Paper is published

Paper becomes data

RRID portal includes:
Antibodies 2.5M
Organisms 600K (~25 centers)
Cell lines 120K
Plasmids (Addgene)
Stats tools, Core fac. etc 20K
Using identifiers for resources makes better (reproducible) papers.

Authors see warning about cell lines = 66% decrease in nasty cell lines.

RRID = 40% increase in reagent findability.

Babic et al, eLife, 2019

Bandrowski et al, 2015a,b,c,d
RRIDS ARE A LIST OF REAGENTS & RESOURCES

Search “npod”

Facets (like filter)
Mentions? - in literature!

* Core facilities
RRIDs are a list of reagents & resources.
How are RRIDs detected?

RRIDs are read by SciBot, verified by curators and papers are listed on the RRID resolver page and shared with CrossRef.
“Our users do not cite us in a consistent format, it is a real chore to figure out who cited us over the last year” – Core Facility Resource Owner
1. List Your Facility
2. Keep Your Listing Updated
3. Join the ABRF CoreMarketplace

Email: nsherzog@uvm.edu

coremarketplace.org
Biomedical Imaging Group (Microscopy (Electron, Fluorescence, Optical))

University of Massachusetts Medical School
BioTech II, Suite 114
373 Plantation Street
Worcester, MA 01605
United States
http://big.umassmed.edu

Quicklinks:
https://coremarketplace.org/RRID:SCR_021201

Facility LIMS Page
https://trello.com/pmmmicroscopes

Primary Contact:
Caterina Strambio-De-Castillia
Last Updated: 11/17/2021

Facility RRID
RRID:SCR_021201

CITE THIS
Biomedical Imaging Group, RRID:SCR_021201

Facility Details
The Biomedical Imaging Group is an interdisciplinary team of engineers and scientists, researchers, as microscopy, data management, lasers, optoelectronics, applied mathematics, image analysis, and imaging approaches for cell biology.
CORE FACILITIES (SERVICES)

HOW CAN WE GET MORE MENTIONS?
Core Facilities

Filter by Department / Unit
- Biochemistry
- BioFrontiers Institute
- Chemistry
- College of Engineering and Applied Science
- CU Green Labs
- Department of Integrative Physiology (IPHY)
- Department of Mechanical Engineering
- Department of Psychology and Neuroscience
- Ecology and Evolutionary Biology (EBIO)
- Geological Sciences
- JILA
- Molecular, Cellular & Developmental Biology (MCDB)
- Renewable and Sustainable Energy Institute (RASEI)
- Wilderness Place

Biochemistry Cell Culture Facility (RRID:SCR_018988)
BioCore: Shared Equipment Program (RRID:SCR_019302)
BioFrontiers Advanced Light Microscopy Core (RRID:SCR_018302)
BioFrontiers Sequencing Facility (RRID:SCR_019308)
Boulder Electron Microscopy Services Core Facility (RRID:SCR_001432)
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.

...This protocol used the services of the Network for Pancreatic Organ Donors with Diabetes (RRID:SCR_014641)...
Can you help users cite you?

there are 101 cores (out of 444 total where we share data with Core Marketplace) that have been cited.

We reached out to 20 cores. We found out that nearly all of the respondents are doing at least 2 of the following things:

Here are prompts that we gave that we knew core leaders were doing:

- RRID is included in the email signature - 8 respondents are doing this
- RRID is included on the core website, somewhere obvious - 6 respondents
- Sending out an email periodically to your users with your core RRID - 3 respondents

Here are some other ways that core facility heads are pushing their users to cite their RRIDs:

- "I basically have the RRID listed across all the equipment calendars on my iLab page"
- "For booking the microscopes we use PPMS from Stratocore and I have just added it to the heading of the facility, which is displayed on all PPMS AIF pages."
- "Post signs referencing the RRID within the SRL"
- "Post the RRID on a screensaver on the instruments"
- "Mention acknowledging the SRL via the RRID during new user trainings"
- "The RRID is included at the bottom of the result report sent to the users."
- "Anytime Methods write up are requested by users, we include an acknowledgement sentence which include the RRID."
- "When reviewing/editing manuscripts as an author, I always add my “core laboratory” acknowledgement section that includes the lab RRID."
The CoreMarketplace:
What it is, and how it increases your core’s visibility in the research environment

Nate Herzog
Project Lead
nsherzog@uvm.edu
CoreMarketplace Purpose:

1. Increase visibility (citability) of cores
2. Improve the reproducibility of research
MY CORE ISN'T AVAILABLE
Everything (and more) that wants to find your core listing
1. List Your Facility (get an RRID)

2. Keep Your Listing Up To Date (first impression)

CM is free to use. Free to list. We don’t share contact information with 3rd parties.
Research Resource Identifiers (RRID)
DEMO (Sort of)
DEMO (Sort of)

ADD/EEDIT FACILITY LISTING

Adding a facility listing to the CoreMarketplace will automatically assign your facility an RRID (more info). You will be notified of your RRID by email once it has been assigned.

Please enter the following information:

First Name: *
Nate

Last Name: *
Herzog

Email Address: *
nshezog@uvm.edu

Facility Institution/Company

(If your institution is not listed, please leave blank)

Next

Download Import Template
If you have multiple facilities to add, you may download our Facilities Setup Template
DEMO (Sort of)

ADD/EDIT FACILITY LISTING

Adding a facility listing to the CoreMarketplace will automatically assign your facility an RRID (more info). You will be notified of your RRID by email once it has been assigned.

We found one or more existing facility records that match your information. Please select your facility to continue.

- LVM-Test Facility

Next

If you wish to create a new facility listing, continue by clicking below.

Create New

If these options don’t fit your needs, contact us

Download Import Template
If you have multiple facilities to add, you may download our Facilities Setup Template
ADD/EDIT FACILITY LISTING

Adding a facility listing to the CoreMarketplace will automatically assign your facility an RRID (more info). You will be notified of your RRID by email once it has been assigned.

An edit link for this facility has been emailed to your listed address. Please check your inbox.
DEMO (Sort of)

Edit Core Facility

Please use the link below to edit your facility listing. If you encounter difficulties please contact coremarketplace@uvm.edu

Facility: UVM-Test Facility

Last Updated: 04/25/2022

Edit Link: https://coremarketplace.org/?e=RmFjaWxpdHVRDO4NzMmdD0xNjU5NDU0MzY5JkF1dGhDb2RITkyNzkwZjliNTRgODQ2Y2UxOGI2NDk0MTkxYmNhZTI5

This link was created on 08/02/2022. It will expire in 48 hours.

The CoreMarketplace
@ coremarketplace@uvm.edu
👤 https://coremarketplace.org
Editing: UVM-Test Facility

Facility Contact Information

- **Address**: 111 Test Ave
- **City**: Burlington
- **State/Province (USA & Canada only)**: Vermont
- **Zip Code**: 05401
- **Country**: United States
- **Facility Website**
- **Facility Phone**
### CoreMarketplace Facility Setup Template

All columns required except where noted

When complete, email to coremarketplace@uvm.edu

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Your CoreMarketplace facility listing has been assigned the following RRID: RRID:SCR_022547.

Your RRID is a unique identifier for your facility. It can be used in publications to easily identify your facility as a component of the research that went into the paper. That published RRID will link back to your facility listing. It will show everything that you list about your facility and most importantly, it acknowledges your facility in the publication.

Your RRID is shown on your CoreMarketplace listing. It is cross-linked to the RRID database. You can also easily copy the full RRID but clicking the 'Cite This' link below it.

You can learn more about RRIDs here: https://scicrunch.org/resources

If you or any of your facility employees have an ORCID, you can connect your ORCID to your facility RRID. RRIDs are now accepted as a type of "work" in the ORCID system. It's another way to ensure everyone gets credit if a facility RRID is included in a publication, even if specific names are omitted. Directions for linking your RRID to your ORCID can be found here

Thanks for being a part of the CoreMarketplace.

Edit Link: https://coremarketplace.org/?e=RNkFwqDh1UROoMa3JnQ9MY11nYzYdQQ1cZQdKbQ29kZJ01NTQ2ZTU7WE3ZjmMmQ2MGY4ZEpYnVmN2FmOGM3Nw==

This link was created on 07/12/2022 and will expire in 48 hours.

The CoreMarketplace
@ coremarketplace@uvm.edu
https://coremarketplace.org
Thank you

Nate Herzog
Project Lead
nshertzog@uvm.edu
Thanks to all of the Cores, repositories, authors and editors who work everyday to make science more reproducible by using RRIDS.

eLife joins the Resource Identification Initiative

To promote reproducibility in scientific research, Research Resource Identifiers, encouraging a description of the research resources within the data and methods. Resources used in experimental work are often invisible barriers to replicating the results. That is why we have created the Initiative (RRID), a community-led project that aims to improve reproducibility in biomedical and life science resources. RRIDs must be machine-readable, free to generate, and not owned by publishers and journals.

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, describe appropriate positive or negative controls, antibody validation, lot number, and provide references. Beginning in September 2016, authors should also ascertain whether the antibody has a Research Resource Identifier (RRID) by consulting the Antibody Registry and include this information, if available, in the Methods section and/or the Antibody table of the article. If there is not an RRID, authors are required to register the antibody and enter it in the registry.

Cell Press STAR Methods

Cell Press is pleased to introduce a new format for reporting methods that replaces the STAR Methods format (Structured, Transparent, Accessible Reporting) with a new, improved format. The new format reflects changing needs in the scientific community for increased transparency, improved rigor and reproducibility. The STAR Methods format is structured around a set of STAR (Studies, Techniques, Assays, Results, Data) methods and resources. The format contains five sections:

- CONTACT FOR RECREATION
- EXPERIMENTAL METHODS
- DATA COLLECTION
- QUANTIFICATION
- DATA AND SOFTWARE

PUBLICATIONS

American Association for Cancer Research

Improving Reproducibility

To improve the reproducibility of published research articles, authors are urged to provide additional data. These details include: identifiers for the reagents and tools used in the study, step-by-step methods, and addition of this information is strongly encouraged, but not required.

Research Resource Identifiers (RRIDs)

To uniquely identify critical biological reagents and software tools reported in the Materials and Methods sections, the American Association for Cancer Research (AACR) asks its authors to include unique Research Resource Identifier (RRIDs) Initiative. In addition to uniquely identifying each reagent and tool, these RRIDs can be used...