

How can the Library support the Researcher

CERN-UNESCO School on Digital Libraries

October 2018



Catering to researchers' many hats



AUTHOR



REVIEWER



COLLABORATOR



TEACHER



READER

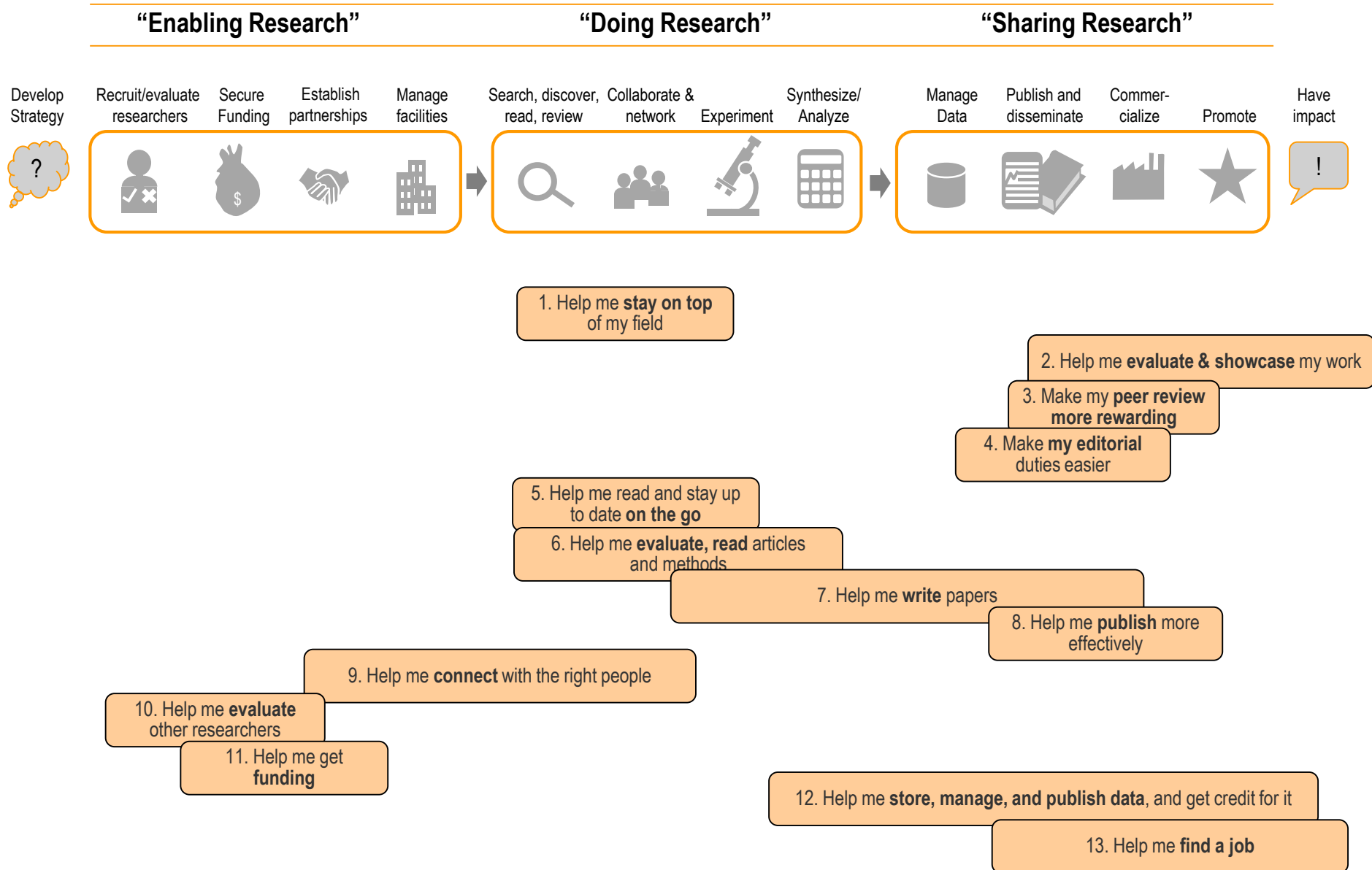


RESEARCHER



EDITOR

Engaging across the research workflow



Key concerns for researchers



Publication Process



Peer Review



Format of the Article



Access



Text Mining & Smart Content



Combining Data

Trends in publishing: moving online

Move online

- Electronic submission
 - increased volume of submissions
- Electronic access
 - easier search, higher usage, easy sharing



Reviewing models

- Increased transparency
- Collaborative review
- Reviewer bias

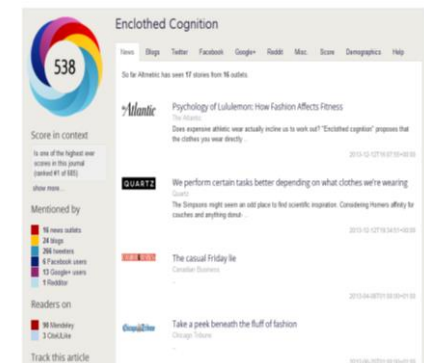


What is publishable?

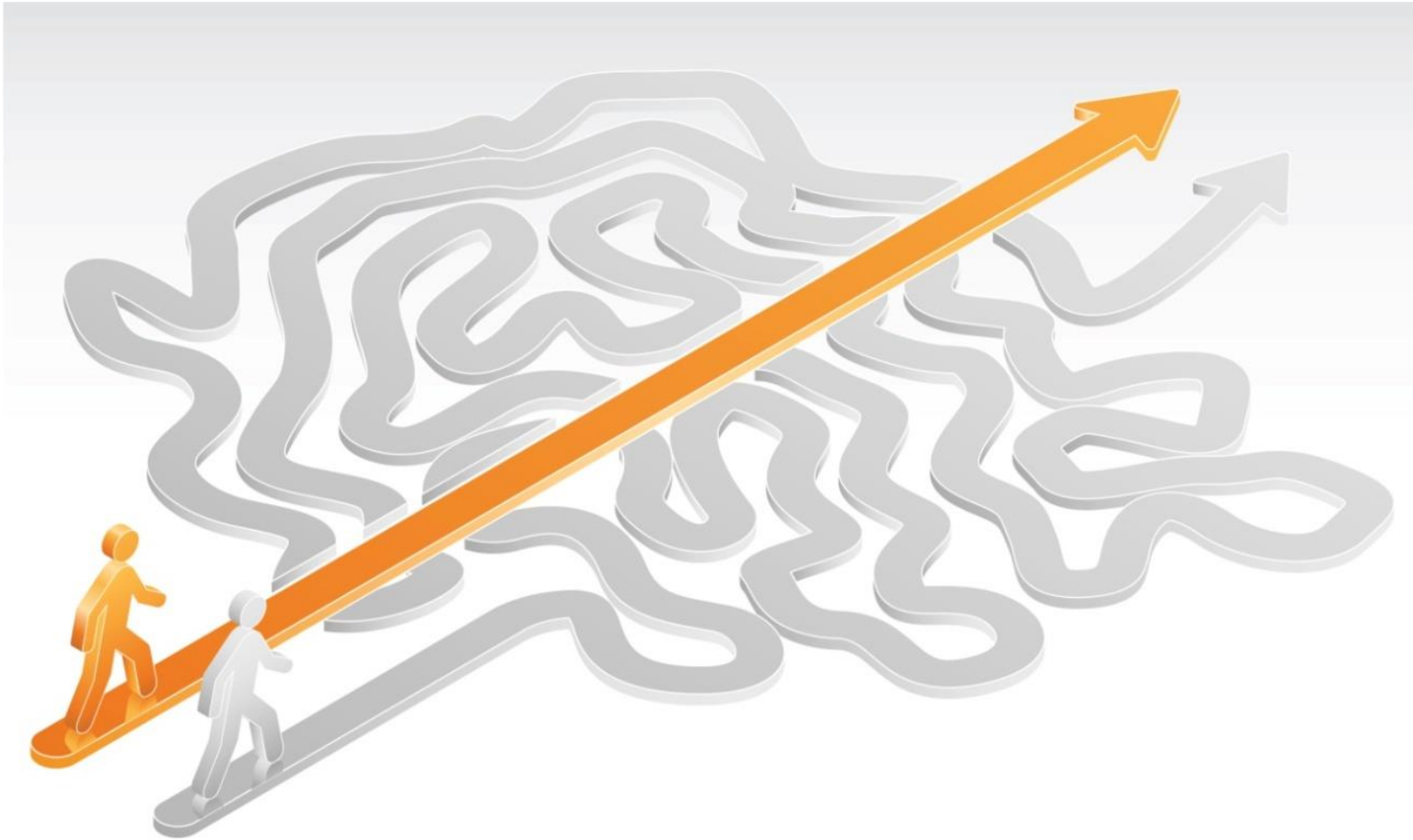
- Full length articles, review articles, opinion papers
- Data
- Method developments

How to evaluate impact?

- Citation-based metrics
- Usage
- sharing



Digital solutions and tools



Right content, right context, right time

Engaging and supporting the Academic Researcher

- **Research Impact Metrics**
- **Ethics & Predatory Journals**
- **Research Data Management**



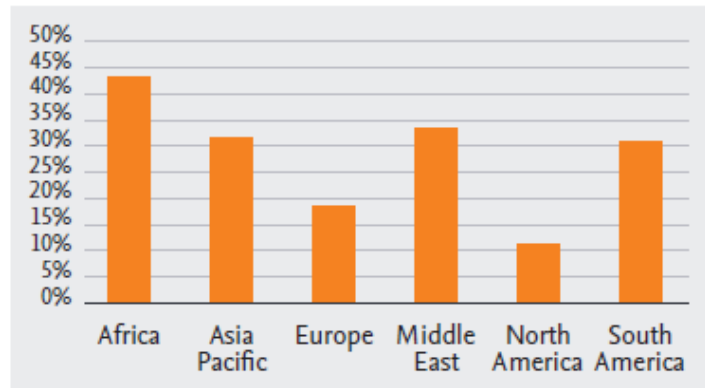
Research Impact Metrics| Ethics| Predatory Journals| New Initiatives

Research Impact Metrics

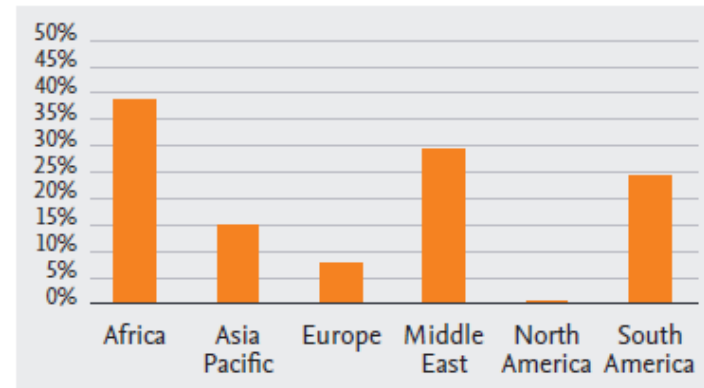
Research Impact Metrics | Ethics | Predatory Journals | New Initiatives

Productivity & performance metrics

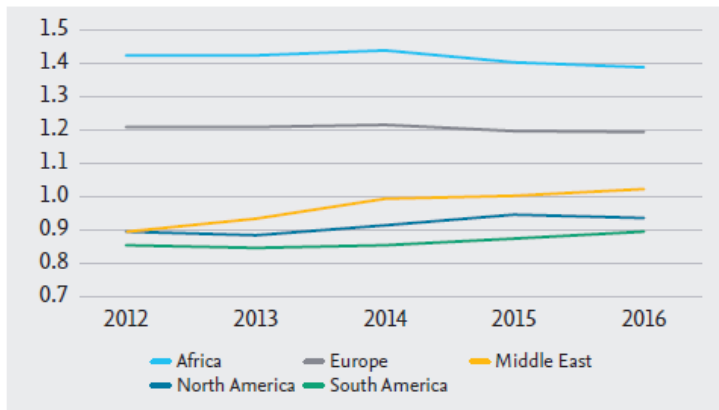
Author Growth percentages
2012–2016



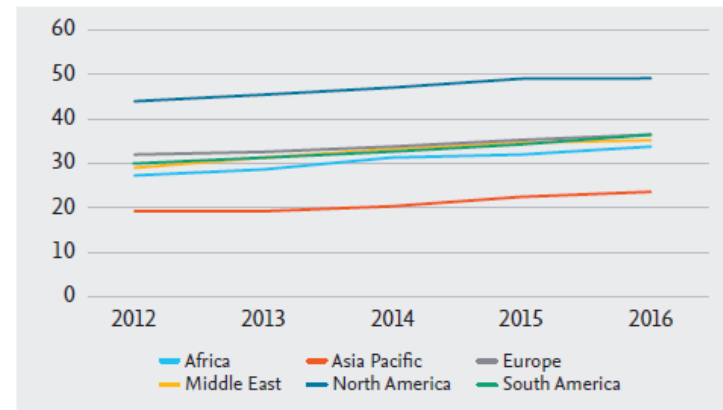
Research output: Growth percentage
2012–2016



Field-weighted citation impact
2012–2016



International collaboration
2012–2016



Journal quality metrics

What is Journal Quality?

“Quality” is in the Eye of the Beholder

- . **Authors: proofs, speed**
- . **Editors: production, e-submission system**
- . **Societies: distribution**
- . **Reviewers: language**

Which Journal is the Best Journal?

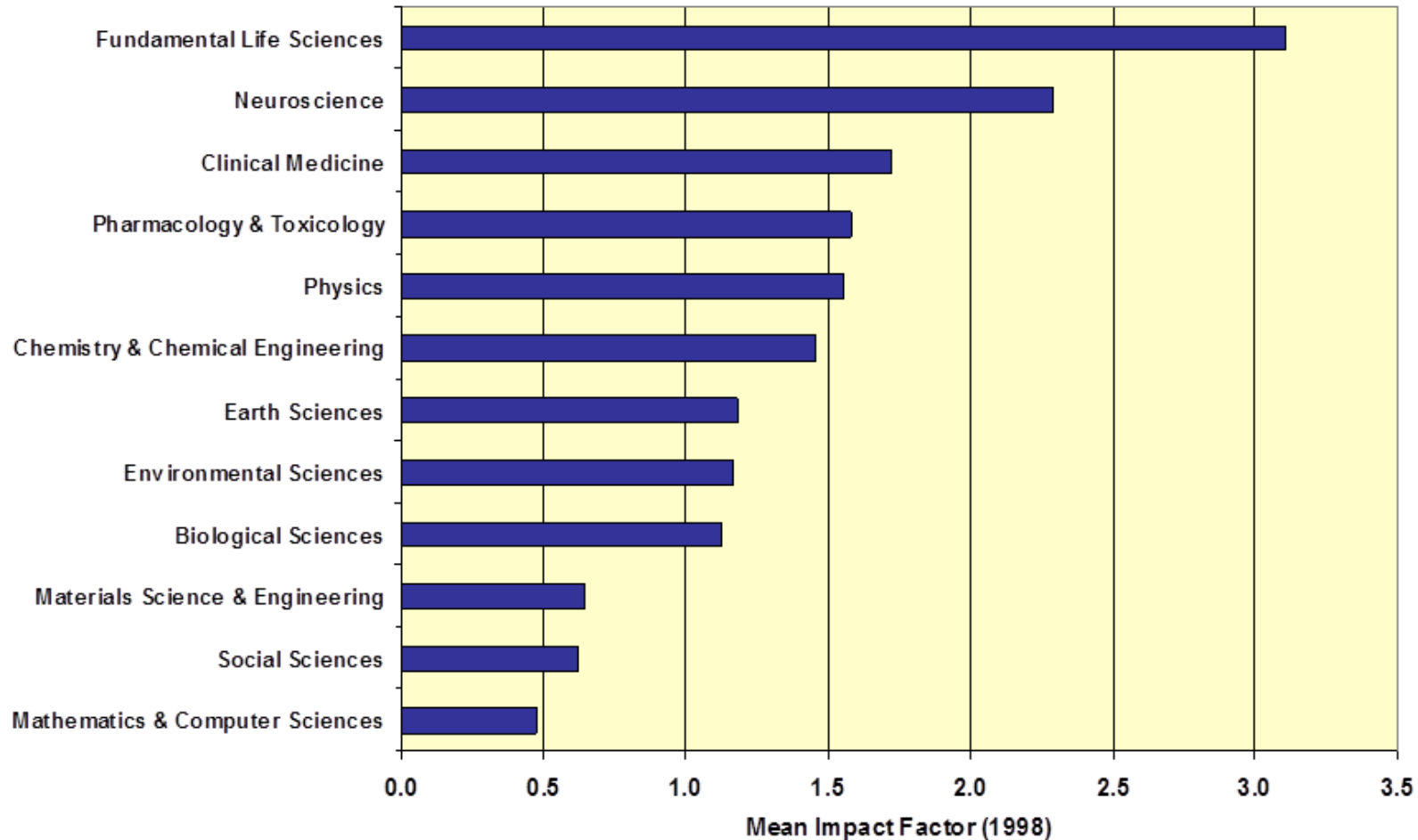
Journal	Impact Factor 2012*
Pain	6.125
Nature Genetics	38.597
Annals of Mathematics	3.027
Computers & Operations Research	2.374
Progress in Energy and Combustion Science	17.778
Addiction Biology	5.914
Remote Sensing of Environment	6.144

*Journal Citation Reports 2013

Answer: All of them are the best journals in their subject areas.

With IF, journals from different subject fields CANNOT be compared.

Impact Factor varies per Subject Area



Tools to assess journal quality

- Impact Factor
- H-Index
- Online usage of papers
- Scimago Journal Rank (SJR)
- Cite score
-



Journal Metrics in Scopus

A basket of different metrics

Powered by Scopus®

Help ▾

Journal Metrics

Get involved >

Introducing CiteScore metrics for serials

We are proud to introduce CiteScore metrics from Scopus – comprehensive, current and free metrics for serial titles in Scopus.

Search or filter below to find the sources of interest and see the new metrics. Report using these annual metrics and track the 2016 metrics via the links to each title's Scopus source details page.

Be sure to use qualitative as well as the below quantitative inputs when presenting your research impact, and always use more than one metric for the quantitative part.



Refine titles ⓘ

ⓘ CiteScore 2015 methodology ⬇ Download all metrics

Refine by subject areas...



Search titles...



2015 ▾

Show more filters

Showing 22,256 titles

Clear Filters

CiteScore metrics calculated on 31 May 2016. SNIP and SJR calculated on 27 April 2016.

ⓘ	Title	CiteScore ▾	Highest CiteScore Percentile	CiteScore Rank	Citations 2015 ⚙	Documents 2012-14 ⚙	% Cited	SNIP	SJR
1	Ca-A Cancer Journal for Clinicians <i>Hematology</i>	66.45	99%	1/117	8,904	134	63%	50.569	32.242
2	Chemical Reviews <i>General Chemistry</i>	45.92	99%	1/371	31,824	693	98%	11.241	19.143
3	Annual Review of Immunology <i>Immunology and Allergy</i>	41.20	99%	1/162	3,049	74	99%	9.071	32.720

Including our new metric CiteScore

The screenshot shows the Scopus Source details page for the Journal of Biomedical Science. The page is divided into several sections. At the top, there is a navigation bar with links for Search, Sources, Alerts, Lists, Help, Register, and Sign in. Below this is a blue header with the text 'Source details' and links for Feedback and Compare sources. The main content area is divided into two columns. The left column contains the journal's name, 'Open Access' status, Scopus coverage years, library subscription dates, publisher information, ISSN, E-ISSN, and subject area. The right column displays three metrics: CiteScore 2015 (3.07), SJR 2015 (1.632), and SNIP 2015 (1.560). Below these metrics is a section for CiteScore, CiteScore rank & trend, and Scopus content coverage. The CiteScore section shows the 2015 score of 3.07, calculated on 03 June, 2016, based on 913 citations and 297 documents. The CiteScore rank section shows the journal's position in the Biochemistry (medical) category, with a percentile of 84th and a rank of #9/56. At the bottom, the CiteScore Tracker 2016 section shows a score of 1.76, calculated based on 581 citations to date and 330 documents to date, last updated on 29 September, 2016.

Scopus

Search Sources Alerts Lists Help Register Sign in

Source details

Feedback Compare sources

Visit Scopus Journal Metrics

Journal of Biomedical Science

Open Access

Scopus coverage years: from 1993 to Present

Library subscription: from January 2009 to December 2009

Publisher: BioMed Central

ISSN: 1021-7770 E-ISSN: 1423-0127

Subject area: Medicine: Biochemistry (medical)

Set document alert Journal Homepage Webcat Plus Copac More

CiteScore 2015 3.07

SJR 2015 1.632

SNIP 2015 1.560

CiteScore

CiteScore rank & trend Scopus content coverage

CiteScore 2015 Calculated on 03 June, 2016

3.07 = $\frac{\text{Citation Count 2015}}{\text{*Documents 2012-2014}} = \frac{913 \text{ citations}}{297 \text{ documents}}$

* CiteScore includes all available document types View CiteScore methodology

CiteScore rank

In category: Biochemistry (medical)

Percentile: 84th Rank: #9/56 View CiteScore trends

CiteScore Tracker 2016

Last updated on 29 September, 2016 Updates monthly

1.76 = $\frac{\text{Citation Count 2016}}{\text{Documents 2013-2015}} = \frac{581 \text{ citations to date}}{330 \text{ documents to date}}$

Ethics

Research Impact Metrics| **Ethics**| Predatory Journals| New Initiatives

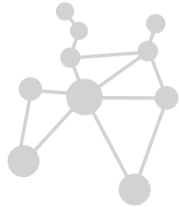
Publish *AND* Perish! – if you break ethical rules

- International scientific ethics have evolved over centuries and are commonly held throughout the world.
- Scientific ethics are not considered to have national variants or characteristics – there is a *single ethical standard* for science.
- Ethics problems with scientific articles are on the rise *globally*.



M. Errami & H. Garner, A tale of two citations
Nature 451 (2008): 397-399

Who is really responsible for Ethics?



All Stakeholders



Authors



Institutions/Companies/Agencies/Funding Bodies



Publishers/Journal Editors

All Elsevier journals
are members of:



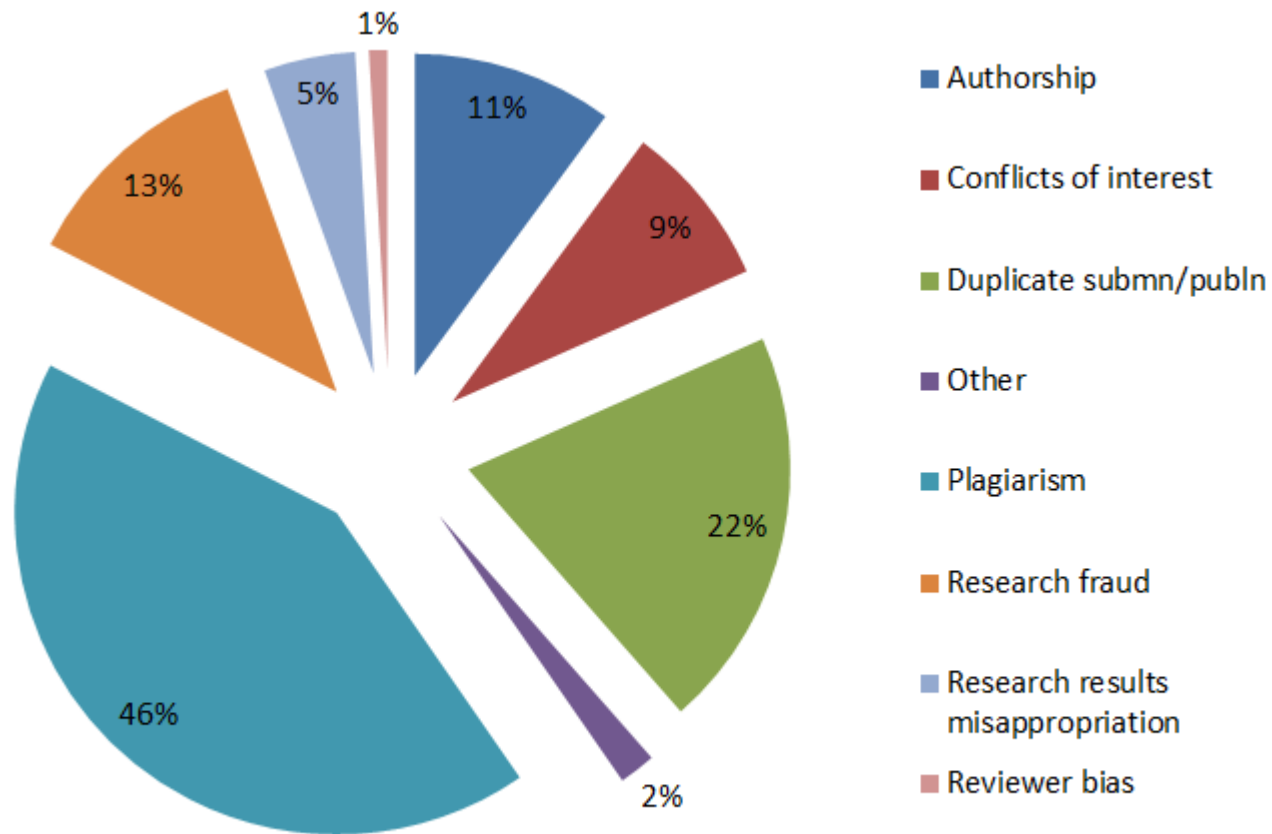
The most serious issues to avoid

These are the 3 most common forms of ethical misconduct that the research community is challenged with:

1. **Fabrication**
Making up research data
2. **Falsification**
Manipulation of existing research data
3. **Plagiarism**
Previous work taken and passed off as one's own



Plagiarism high amongst ethics issues



Sample of cases reported to Elsevier Journals publishing staff

Plagiarism detection: CrossCheck

- Consists of database of published content and plagiarism-detecting software from Iparadigms
- Unique database: 50 million+ articles from 175,000+ journals and books from 300+ publishers
- Expert interpretation still essential: CrossCheck shows similarity but not context or intent
- Shortcomings: risk of false positives & false negatives - There is no magic number!!

Polystyrene-supported GaCl_3 : A new, highly efficient and recyclable heterogeneous Lewis acid catalyst for tetrahydropyranylation of alcohols and phenols

Ali Khatmatpour

Polymer Science and Technology Division, Research Institute of Petroleum Industry (RIPI), 14665-1137 Tehran, Iran

ARTICLE INFO

Article history:
Received 7 March 2012
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Available online 3 July 2012

Keywords:
Polymer-supported Lewis acid catalyst
Alcohol
Tetrahydropyranylation
Gallium trichloride
Phenol

ABSTRACT

A simple, highly chemoselective method for tetrahydropyranylation of alcohols and phenols using a polystyrene-supported gallium trichloride (PS- GaCl_3) as a heterogeneous Lewis acid catalyst at room temperature is presented. In this catalytic system, primary, secondary and tertiary alcohols, as well as phenols, were converted to the corresponding tetrahydropyranyl (THP) ethers with short reaction times and high yields. The heterogeneous catalyst is of high reusability and stability in the pyranlation reactions and was recovered several times with negligible loss in its activity and with negligible catalyst leaching, and also there is no need for regeneration. The method also shows good chemoselectivity for mono-tetrahydropyranylation of symmetrical diols.

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1. Introduction

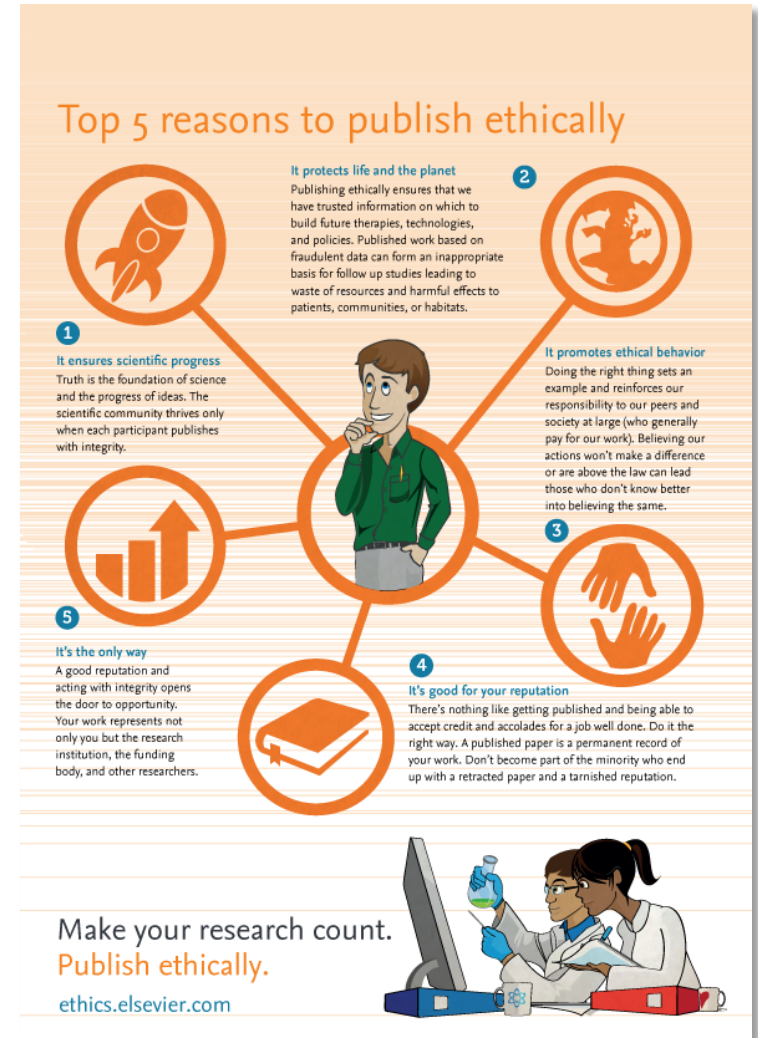
stability and hydrophobic nature which protects water-sensitive Lewis acids from hydrolysis by atmospheric moisture until it is

Match Overview		
1	CrossCheck 466 words Tamami, B.. "Chemoselective tetrahydropyranylation of alcohols and phenols using polystyrene supported aluminium	9%
2	CrossCheck 201 words Borujeni, K.P.. "Synthesis and application of polystyrene supported aluminium triflate as a new polymeric Lewis acid c	4%
3	CrossCheck 164 words Karimi, B.. "Solid silica-based sulfonic acid as an efficient and recyclable heterogeneous catalyst for selective tetrahydrop	3%

Educating authors on the do's & don'ts

<https://researcheracademy.elsevier.com/publication-process/ethics>

- Online education program
- Teaching the “ground rules” and the consequences when they’re broken
- Interviews, quarterly webinars, quizzes, factsheets, FAQ



Predatory Journals:

Identifying the Wolf in Sheep's Clothing

“Content published in journals whose publishers exploit the author-pays model for their own profit. Typically, these publishers have a low article acceptance threshold, with a false-front or non-existent peer review process, affecting content providers across the globe.”

(Stratford, 2012, p. A1-A8 and Beall n.d.)



Predatory Journals: Evaluation

Reputation is key

Indication of a good journal:

- Member of ethical bodies such as COPE (Committee on Publication Ethics)
- Peer Review
- Editorial advisory board
- Online submission system
- Comes from reputable publishers or societies
- Has ISI/Scopus/regional indexation
- Publishes reputable authors



Be careful when:

- Publishers promise an almost immediate acceptance of manuscripts for a fee; with no, poor or fake peer review
- Websites and journal titles look remarkably similar to well known journal brands
- Many of these predatory publishers name themselves "Institutes," "Associations," or "Centers"
- The journals are often mega-journals, frequently lacking recent/past content
- The publishers spam authors via large email campaign; often no match with subject field

Remember to be careful as “A paper can only be published once”



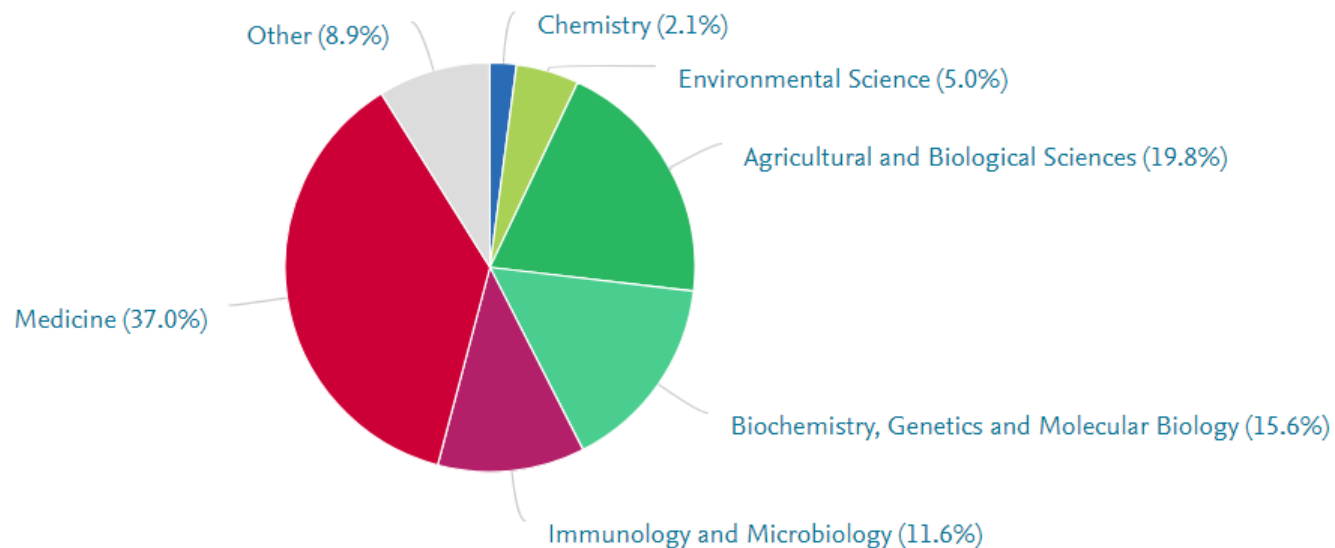
Research Data Management



RDM best practices in Kenya

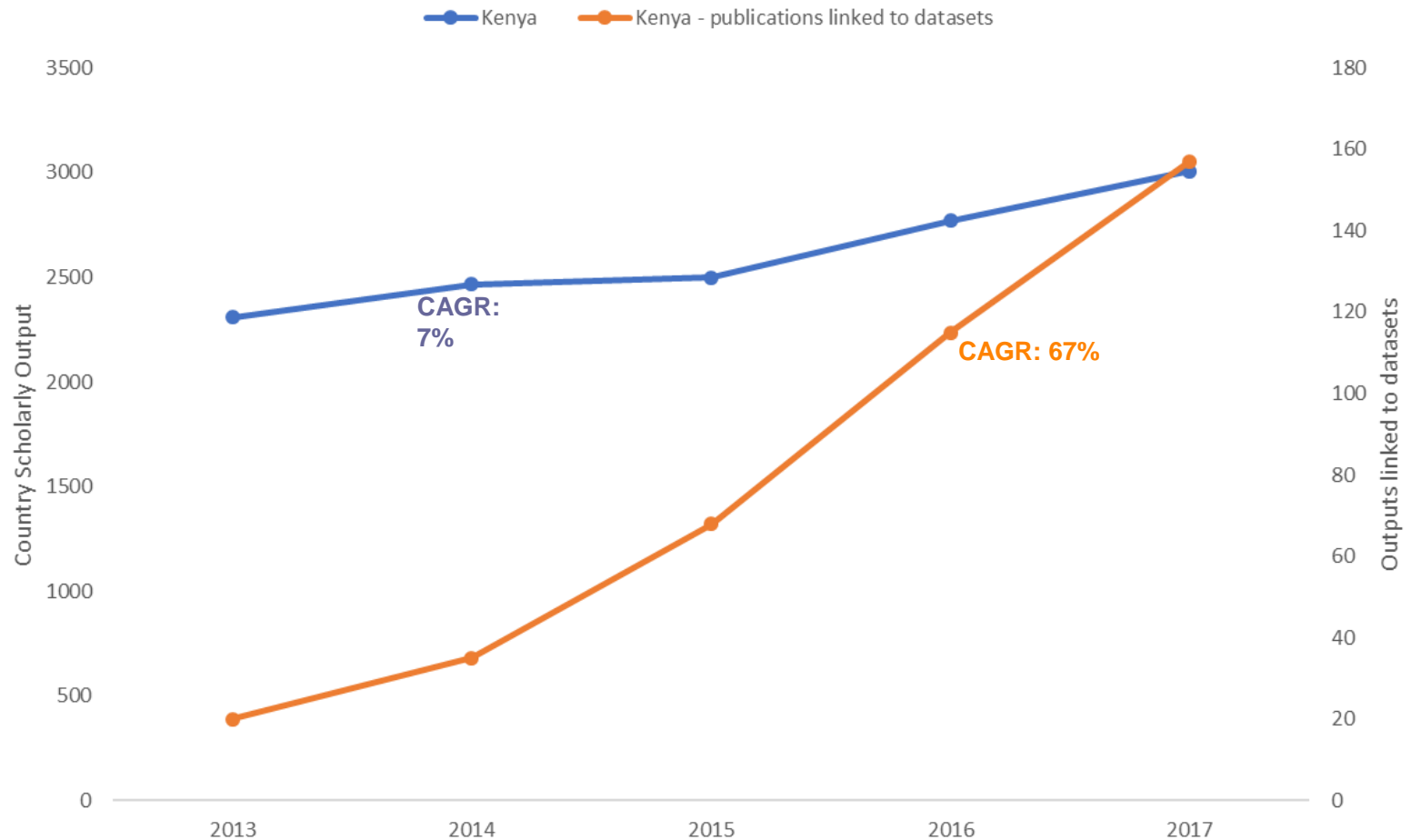
We have checked publications from Kenya from 2013 to date in Scopus.

Of 14.045 publications (with a DOI), 527 (~3.8%) are linked to 789 datasets, according to Scholix (article-data linking initiative).



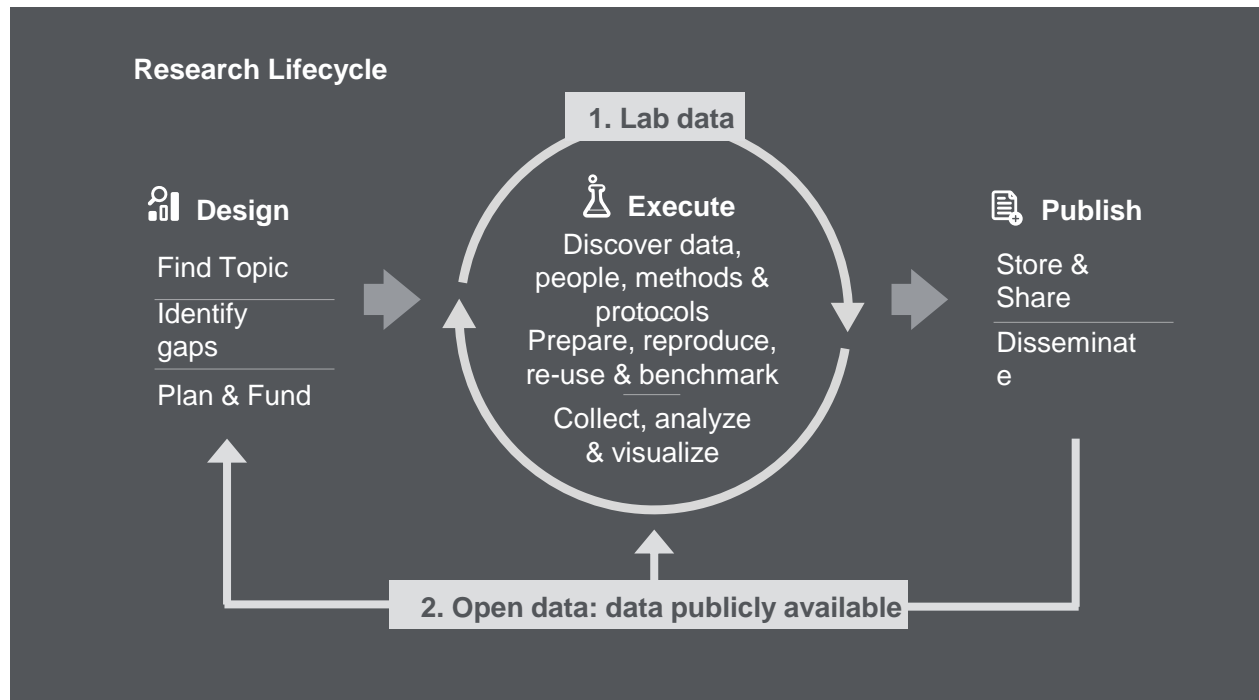
Source: Scopus, Scholix, data extracted on September 26, 2018

RDM is growing very fast in Kenya



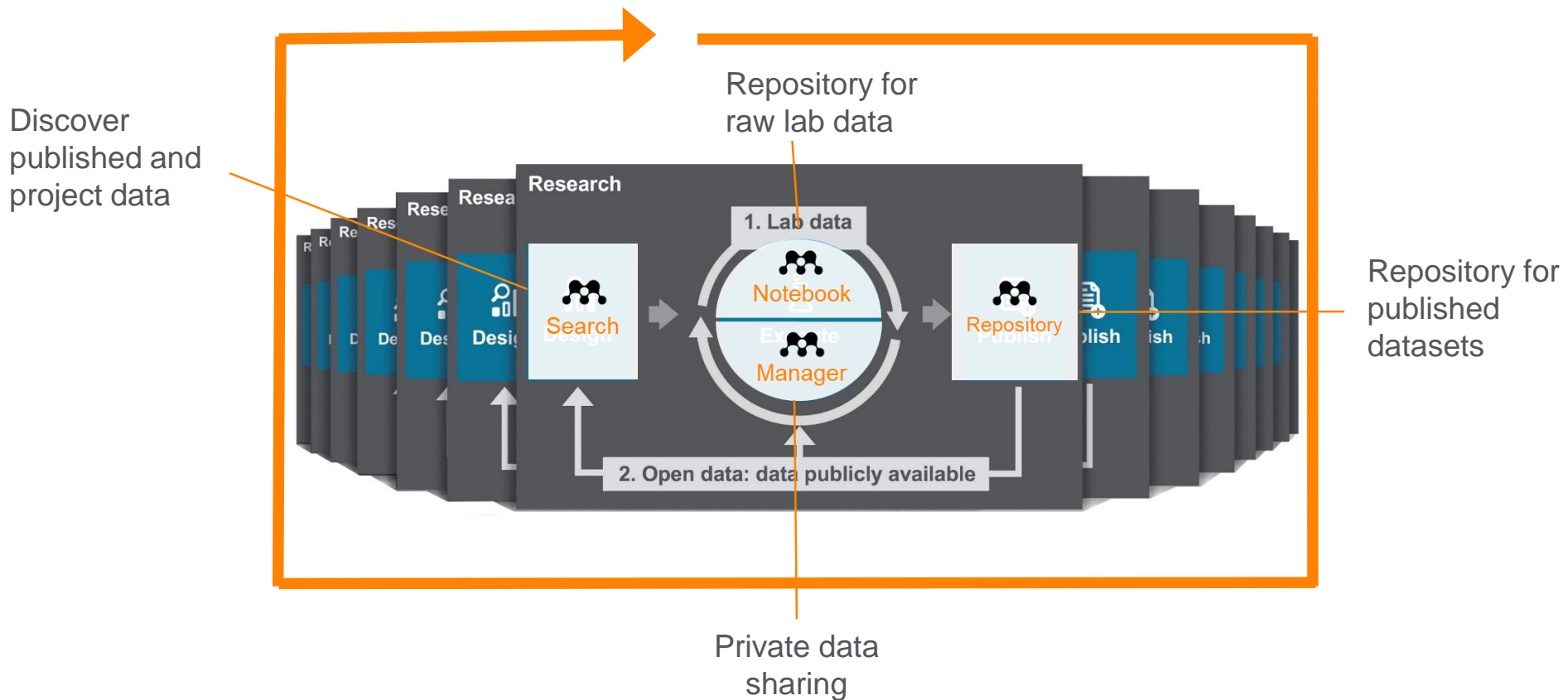
Source: SciVal, data extracted on September 26, 2018 – CAGR = Compound Annual Growth Rate

The research life cycle depends heavily on two data life cycles

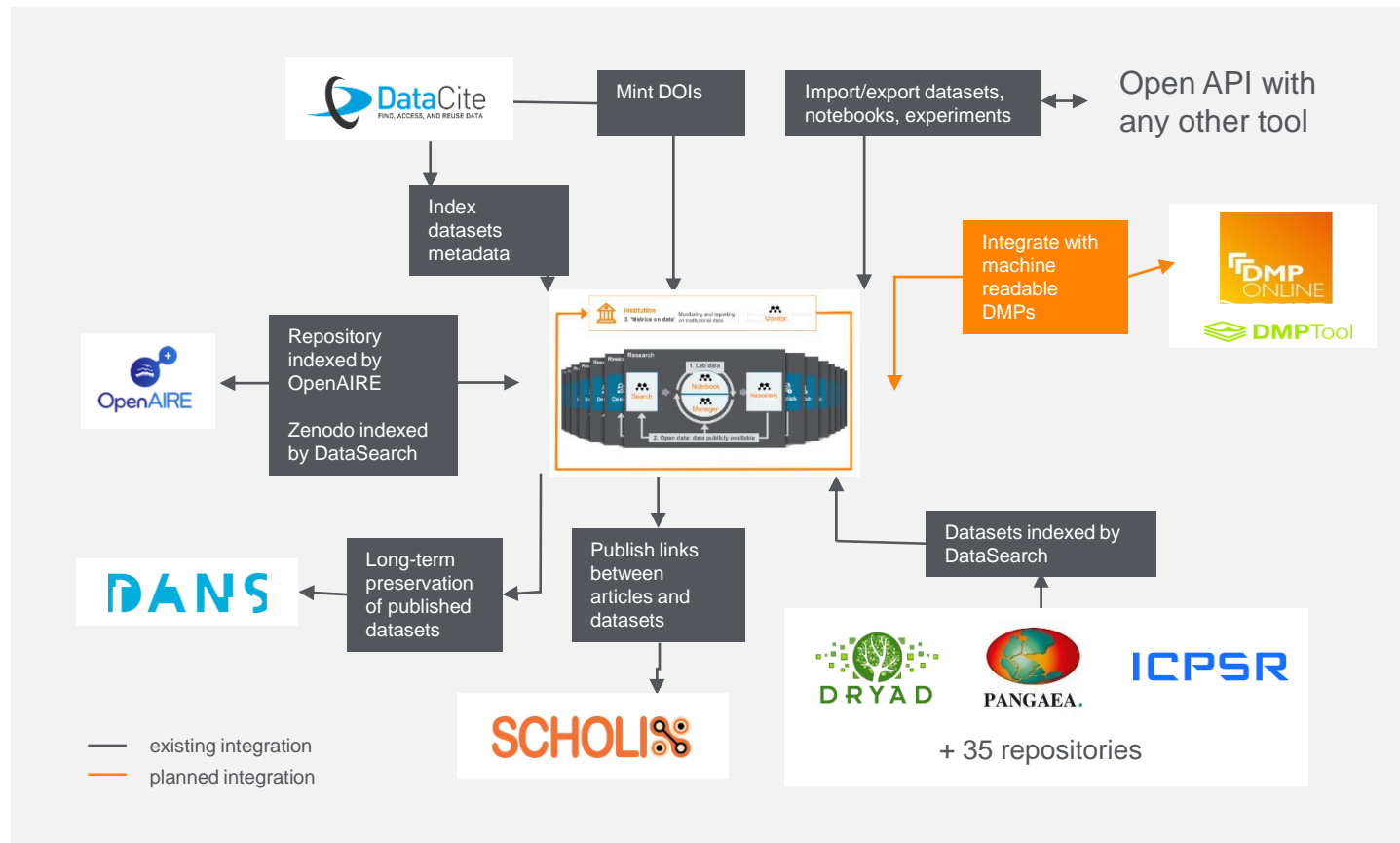


Mendeley Data

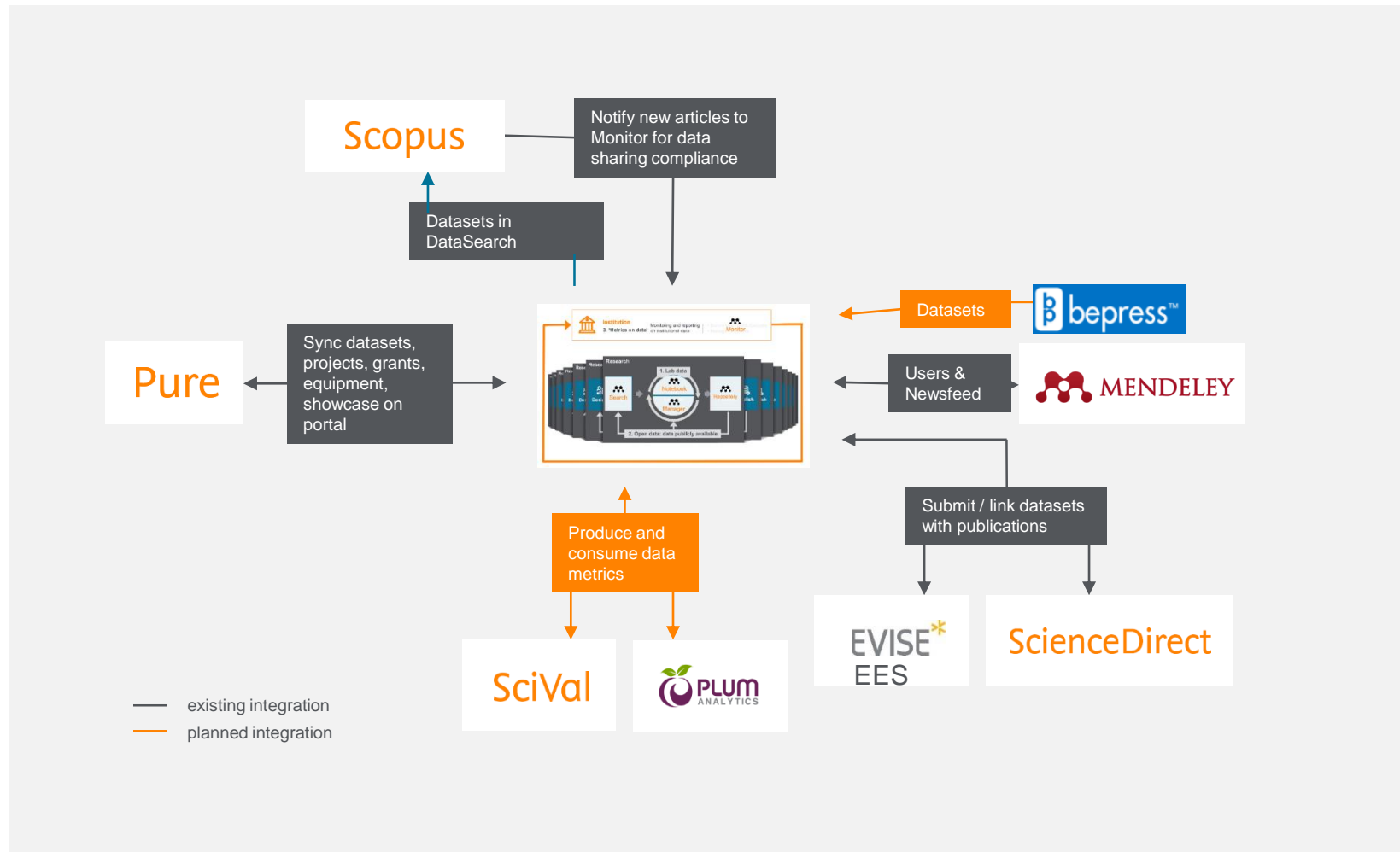
A modular, cloud-based platform designed for research institutions, to manage the entire lifecycle of research data



Mendeley Data already integrates through open APIs with the global Research Data Management ecosystem



Delivering more value as a holistic solution: Mendeley Data integrates with other Elsevier solutions



Want to know more?

<https://data.mendeley.com>

<https://www.hivebench.com>

<https://www.elsevier.com/solutions/mendeley-data-platform>

<https://www.elsevier.com/authors/author-services/research-data/mendeley-data-for-journals>



THANK YOU!

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