



Scopus ScienceDirect ScienceDirect Topics

Hossein Aazami

Training Director at Faridea Company

Elsevier Product Training Specialist



Who is Elsevier?



Elsevier, the modern publishing company, was founded in 1880.

Fast facts about Elsevier

99%

More than 1 billion articles were downloaded by researchers in 2019.

2,500

99% of Nobel Laureates in science have published in Elsevier journals since 2000.

>1b

We publish 2,500 digitized journals, including The Lancet and Cell.

Publishing 18% of global research output while garnering 26% of citation share

>17m

About 25,000 academic and government institutions around the world use our products

18%

More than 17 million monthly unique users visit ScienceDirect®.

25k

Solutions Portfolio - ELSEVIER

Core Solutions

Scopus®
SciVal
Pure 

Engineering

Reaxys®
Embase®
Pathway Studio®
pharmapendium®
MAKE INFORMED DRUG DEVELOPMENT DECISIONS

Research Intelligence

ScienceDirect
Scopus®
 MENDELEY

Engineering Village™
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 Compendex
 GEOFACETS™

Life Sciences





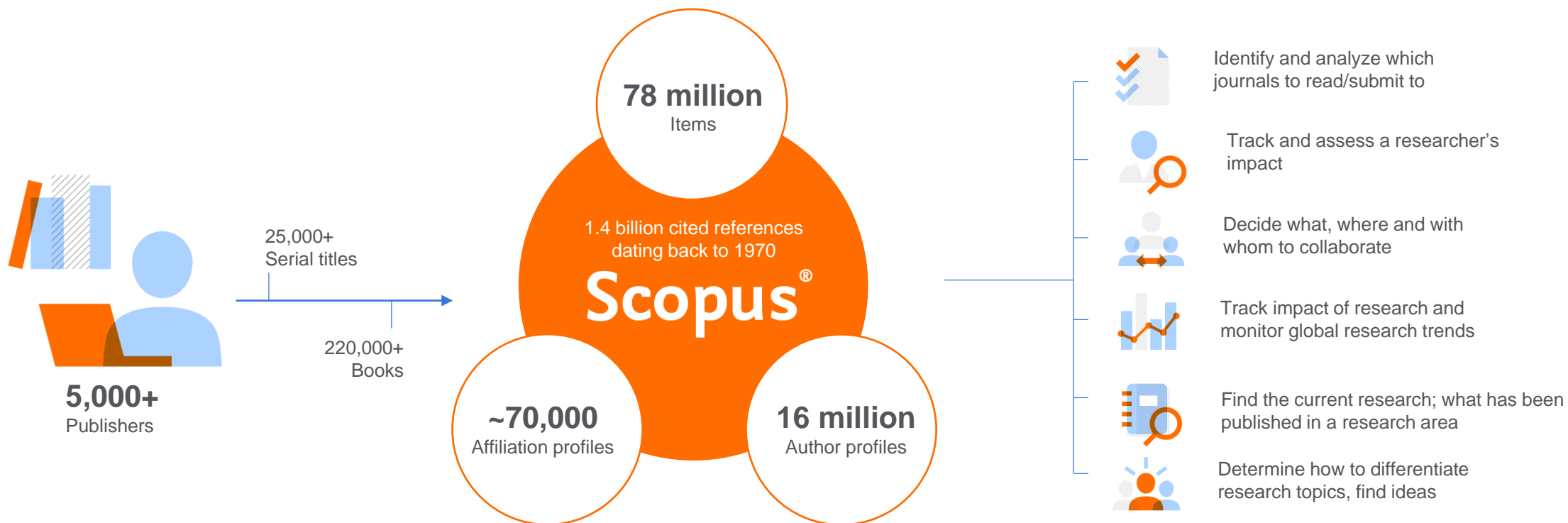
Research Intelligence

Scopus[®]



Scopus delivers a comprehensive view on the world of research

Scopus is a source-neutral abstract and citation database curated by independent subject matter experts.



Scopus is the gold standard:

Evaluation, ranking, reporting, landscape analysis and other strategic efforts



Rankings organizations



Global representation means global discovery

Across all subjects and content types

Number of journals by subject area

	Journals	Conference	Books
Physical sciences 13,312	25,300 Peer-reviewed journals	101K Conference events	852 Book series
Health sciences 14,448	294 Trade journals	9.8M Conference papers Mainly Engineering, maths, physics and computer sciences	40K Volumes
Social sciences 12,464	5,527 Active gold open access journals		1.8M Items
Life sciences 7,295	>8,000 Articles in press Full metadata, abstracts and cited references		220,000+ Stand-alone books Mainly social sciences and arts & humanities

Scopus includes content from
more than 5,000 publishers
and 105 different countries

40 different languages covered

Updated daily

Multiple regional content types
covered (journals, conferences,
books, book series)

9.5M open access documents

Global representation means global discovery

Across all subjects and content types

Global representation
(number of active titles)

North America

6,600+

54% more than nearest competitor

Middle East & Africa

860+

236% more than nearest competitor

Western Europe

12,170+

75% more than nearest competitor

East Europe incl. Russia

1,750+

220% more than nearest competitor

Latin America

790+

193% more than nearest competitor

Asia Pacific

2,230+

265% more than nearest competitor

Australia/ New Zealand

260+

225% more than nearest competitor

Selection Process & Criteria - Scopus®

Scopus content is selected via independent Content Selection & Advisory Board (CSAB)



The CSAB is an independent board of subject experts from all over the world.

Board members are chosen for their expertise in specific subject areas; many have (journal) Editor experience.

The CSAB is selective and strict on quality: in total 5,411 titles reviewed (2011 –2015) of which 2,587 (48%) accepted for Scopus

Selection Process & Criteria - Scopus®

The CSAB is selective and strict on quality: in total 5,411 **titles reviewed** (2011 –2015) of which 2,587 **(48%) accepted** for Scopus

All titles should meet **all minimum** criteria in order to be considered for Scopus review:



Journal policy

- Convincing editorial concept/policy
- Type of peer-review
- Diversity geographic distribution of editors
- Diversity geographic distribution of authors

Quality of Content

- Academic contribution to the field
- Clarity of abstracts
- Quality and conformity with stated aims & scope
- Readability of articles

Journal standing

- Citedness of journal articles in Scopus
- Editor standing

Regularity

- No delay in publication schedule

Online Availability

- Content available online
- English-language journal home page
- Quality of home page

Eligible titles are reviewed by the CSAB according to a **combination of 14 quantitative and qualitative selection criteria**:

Selection Process & Criteria - Scopus®

Transparent, annual re-evaluation process to ensure titles continue to meet high quality standards

Full Scopus Journal base	
Year 1	Analyze full Scopus journal corpus performance based on set metrics & benchmarks Flag underperforming journals & inform journal publishers
Year 2	Analyze full Scopus journal corpus performance based on set metrics & benchmarks Flag underperforming journals & inform journal publishers
CSAB review	If a journal underperforms for <u>2 consecutive years</u>, CSAB will re-evaluate the title based on Scopus selection criteria Flagged journals for which concerns are raised, CSAB will re-evaluate the title based on Scopus selection criteria
CSAB decision	Continue forward flow or Discontinue forward flow

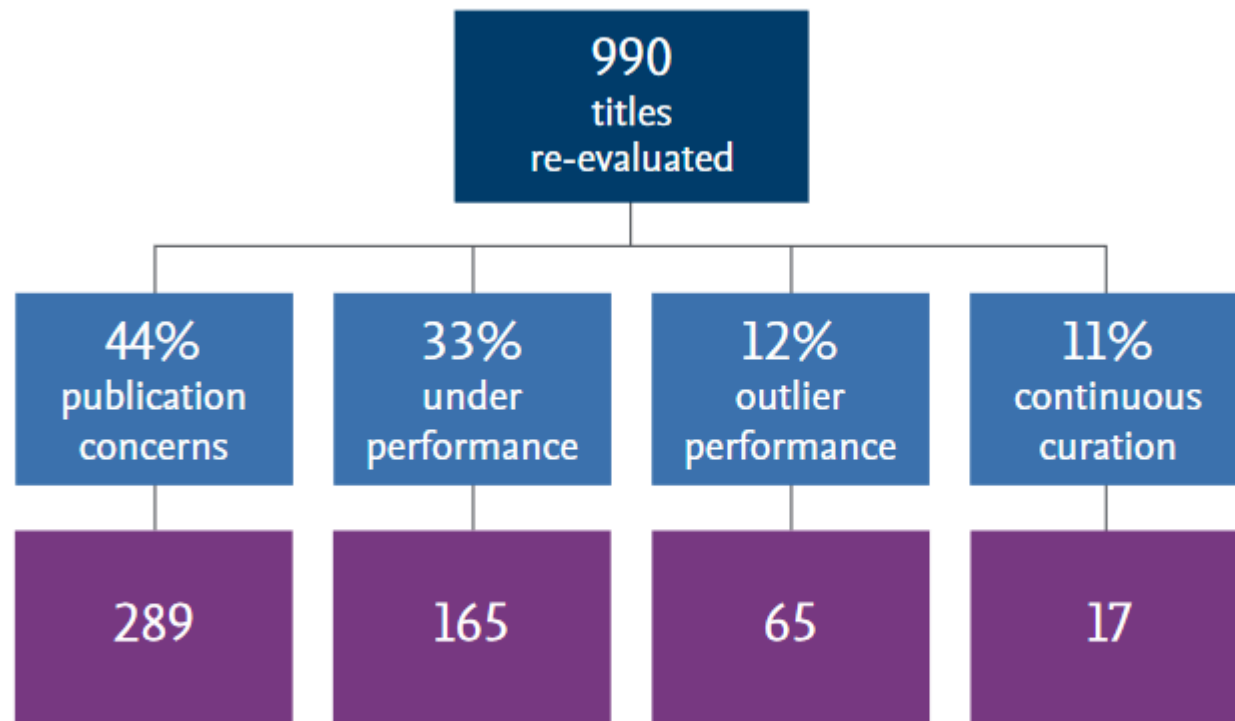


Figure 1: Overall re-evaluation outcomes broken down by the reason of identification (2016–2020). ■ Discontinued


New “Accepted Titles” list: get early insights into new Scopus content

The new monthly “Accepted Titles” list can now be found on the Scopus Content webpage. If you scroll to the bottom of the page, you will find the button highlighted in the image below.

Looking for something else?

Content types included on Scopus are either serial publications that have an ISSN (International Standard Serial Number) such as journals, book series and some conference series, or non-serial publications that have an ISBN (International Standard Book Number) like one-off book publications or one-off conferences. To check if a title is on Scopus, visit the freely available Source Title page, or consult the titles lists below.

[Download the Source title list \(incl. Scopus discontinued sources list\) >](#) (XLSX, 24.7 MB)

[Download the Book title list](#)  (XLSX, 24.9 MB)

Research Metrics

- Journal metrics (e.g. CiteScore, SNIP, SJR)
- Article-level metrics (e.g. Field-Weight Citation Impact)
- Author metrics (e.g. h-index)



Research Metrics

Metrics in Scopus®

When used correctly, research metrics together with qualitative input give a balanced, multi-dimensional view for decision-making.



The diagram features two vertical bars of different heights. The shorter bar on the left is light blue, and the taller bar on the right is dark teal. A dashed light blue line connects a blue dot on the left bar to the 'Golden Rule # 2' text. A dashed dark teal line connects a dark teal dot on the right bar to the 'Golden Rule # 1' text.

Golden Rule # 2

Always use **more than one research metric** as the quantitative input

Golden Rule # 1

Always use both **qualitative and quantitative input** into your decisions

Key ways to use Scopus

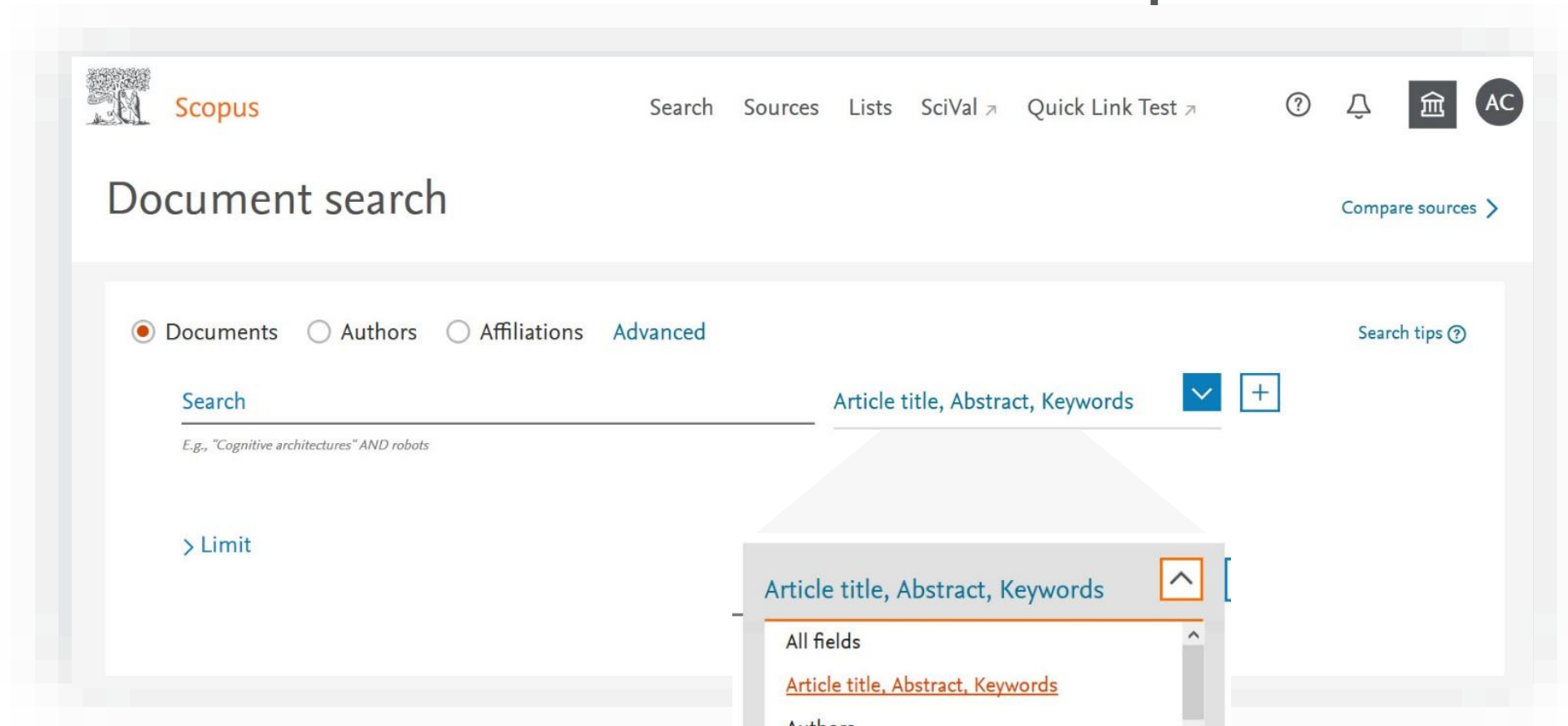
Scopus benefits users by enabling them to:

1 Search documents and author profiles with ease

2 Effectively analyse search results

3 Export relevant reference material

Search for documents and author profiles with ease



- Simple single search box
- Search different fields for greater specificity

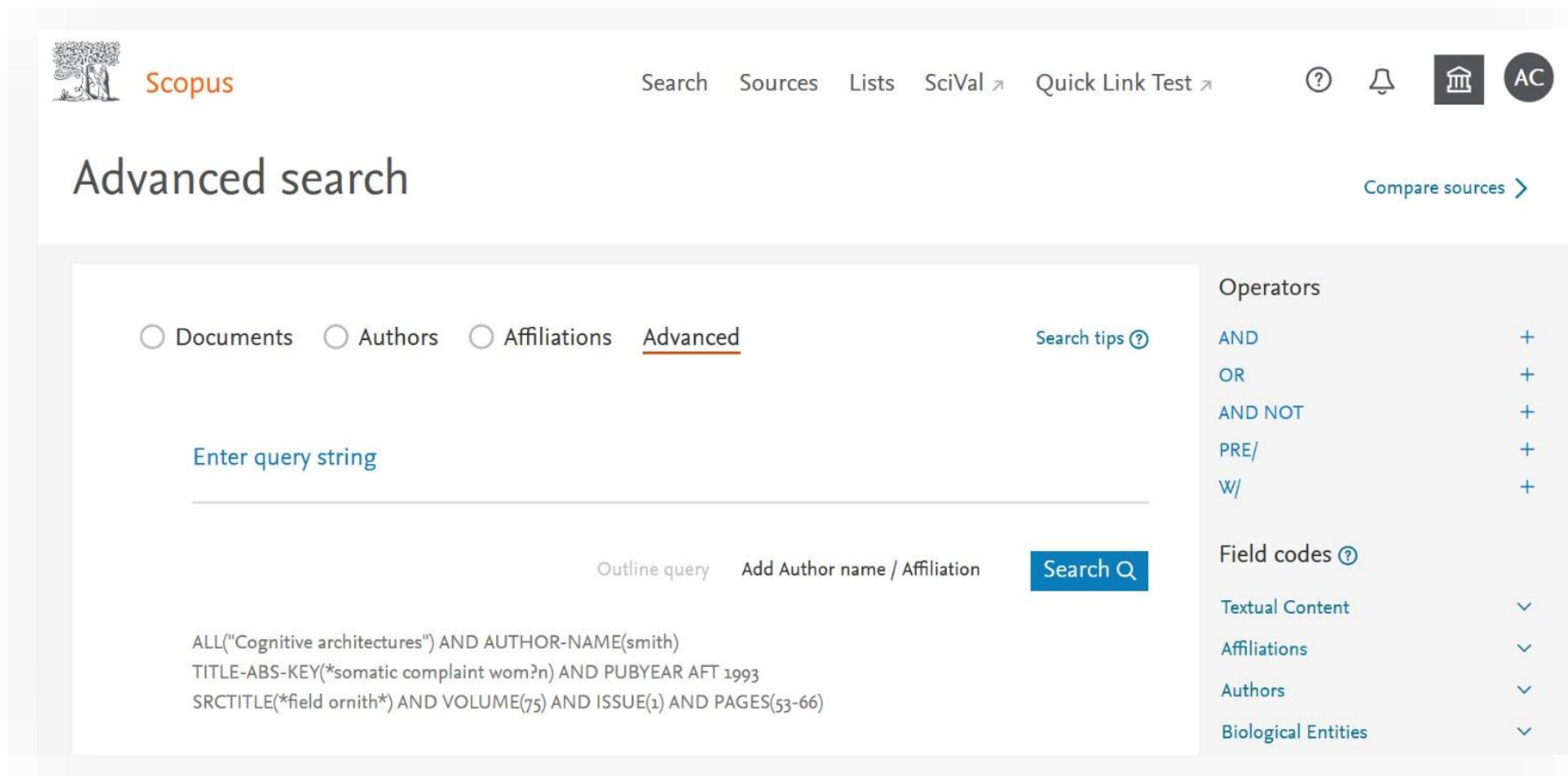
Search for documents and author profiles with ease

The screenshot shows the Scopus search interface. At the top left is the Scopus logo. The navigation menu includes Search, Sources, Lists, SciVal, and Quick Link Test. On the right, there are icons for help, notifications, a library icon, and a user profile icon labeled 'AC'. The main heading is 'Document search' with a 'Compare sources' link. Below this, there are radio buttons for 'Documents' (selected), 'Authors', and 'Affiliations', followed by a link for 'Advanced' search and 'Search tips'. A search input field contains the text 'Article title, Abstract, Keywords' and has a dropdown arrow and a plus sign. Below the input field, there is a 'Reset form' link and a 'Search Q' button.

- Search Documents, Authors, and Affiliations

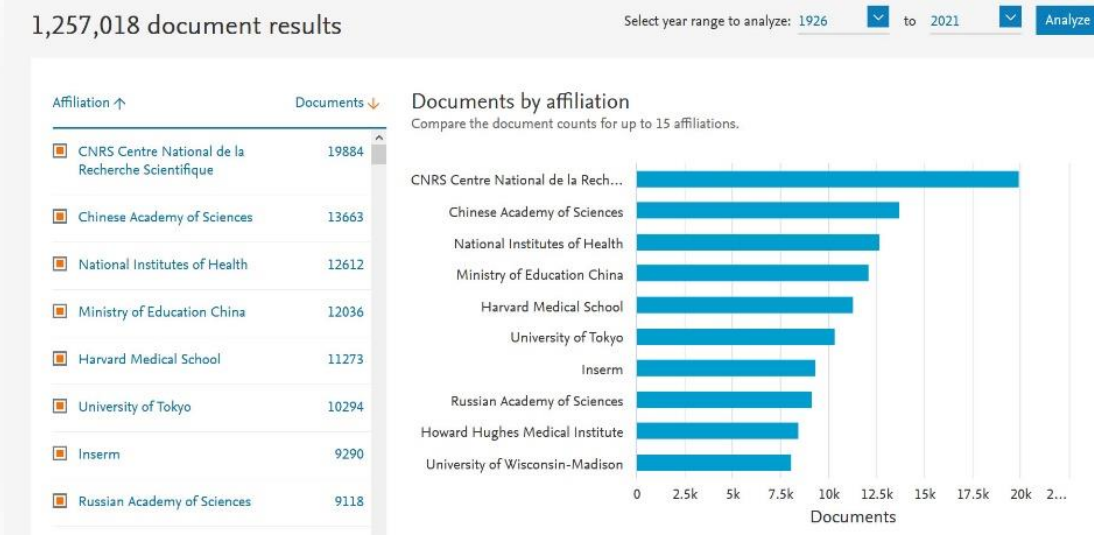
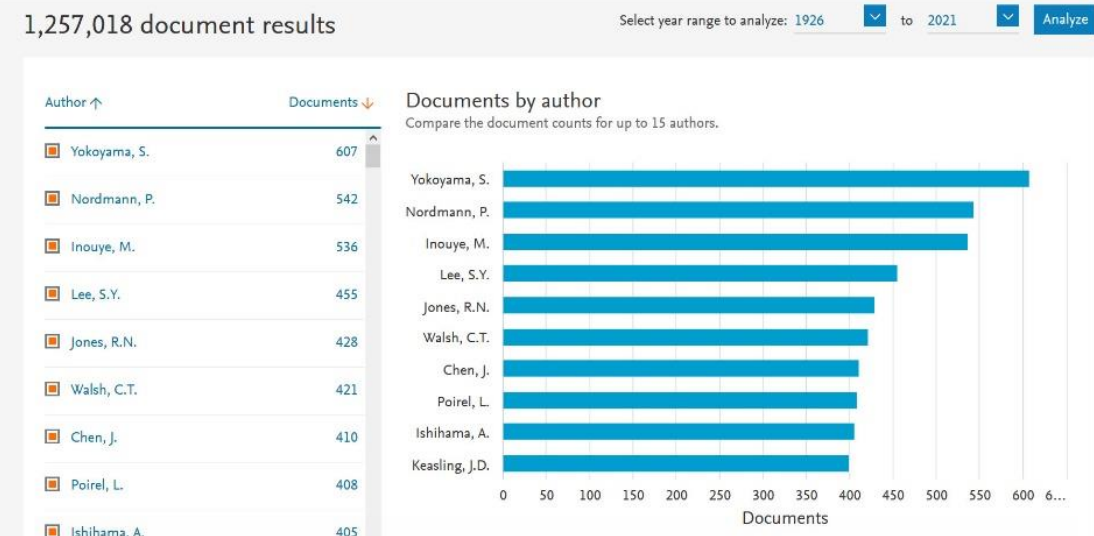
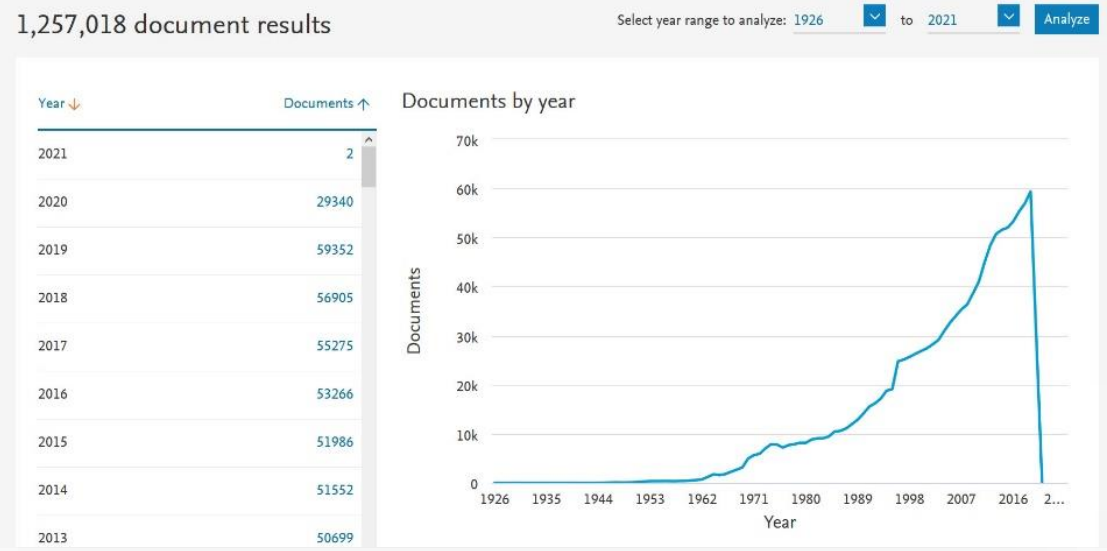
Search for documents and author profiles with ease

- Build advanced queries
- Built-in tips and guidance on query building



The screenshot displays the Scopus Advanced Search interface. At the top, the Scopus logo is on the left, and navigation links for Search, Sources, Lists, SciVal, and Quick Link Test are in the center. On the right, there are icons for help, notifications, and a user profile labeled 'AC'. The main heading is 'Advanced search', with a 'Compare sources' link on the right. Below the heading, there are radio buttons for 'Documents', 'Authors', 'Affiliations', and 'Advanced' (which is selected). A 'Search tips' link is also present. A large text input field is labeled 'Enter query string'. Below the input field, there are links for 'Outline query' and 'Add Author name / Affiliation', and a blue 'Search Q' button. The search results area shows a query: `ALL("Cognitive architectures") AND AUTHOR-NAME(smith) TITLE-ABS-KEY(*somatic complaint wom?n) AND PUBYEAR AFT 1993 SRCTITLE(*field ornith*) AND VOLUME(75) AND ISSUE(1) AND PAGES(53-66)`. On the right side, there is a sidebar with 'Operators' (AND, OR, AND NOT, PRE/, W/) and 'Field codes' (Textual Content, Affiliations, Authors, Biological Entities).

Analyze your results



- View trends over time by article count, author, affiliation, source, and more
- Built-in tips and guidance on query building

New Open Access filters in Scopus

- December 2020 brings a major update to the current Open Access filter in Scopus
- Additional OA filters will provide more granularity in the Scopus Open Access coverage

Open Access

All Open Access (308,702) >

Gold (98,322) >

Hybrid Gold (24,768) >

Bronze (136,106) >

Green (215,741) >

[Learn more](#)

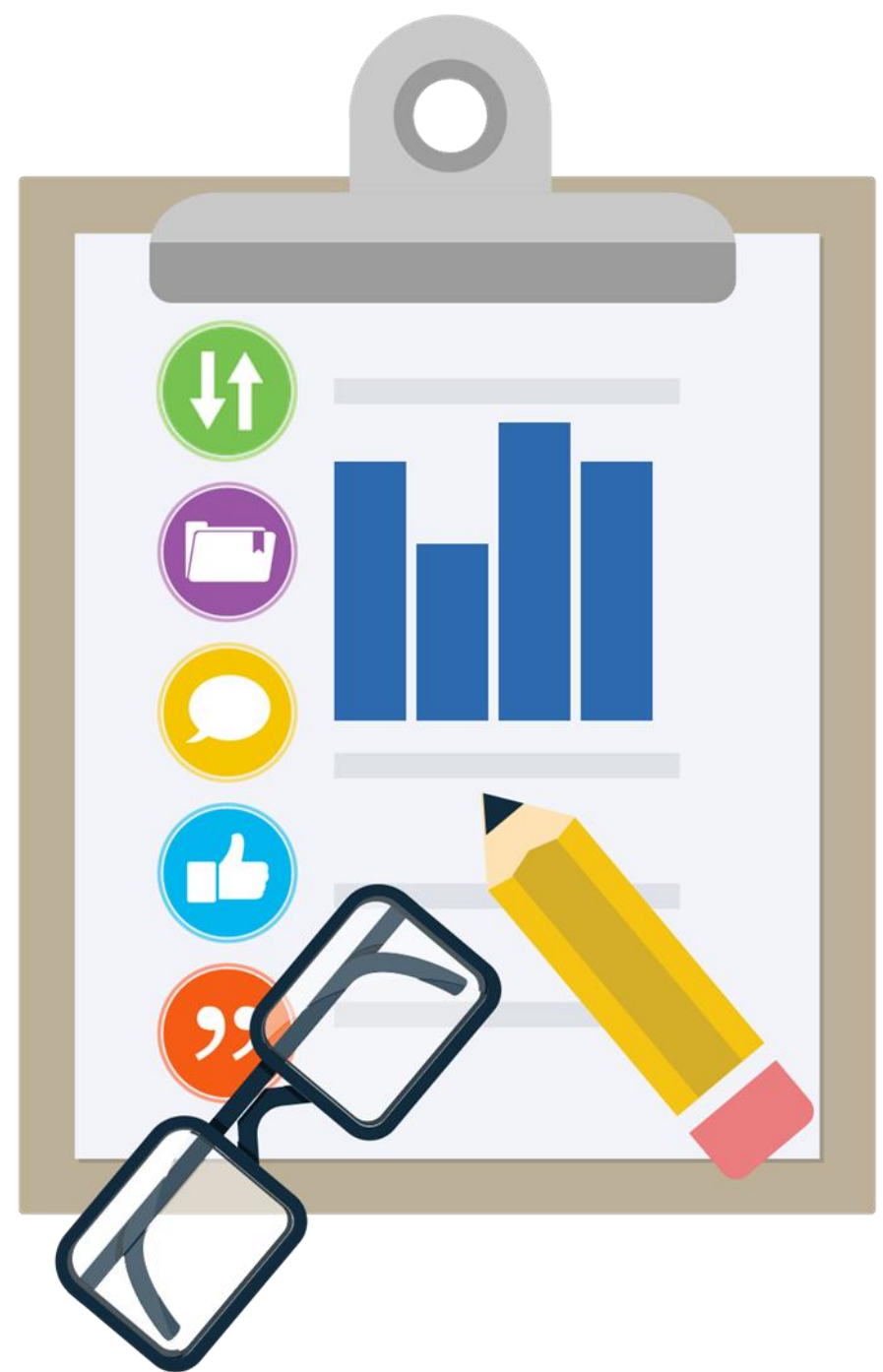
Advanced Search queries with OA filter

You can search Gold Open Access articles only and add a Boolean operator to search for other field codes like ABS or TITLE-ABS-KEY():

- Entering (OA(publisherfullgold) OR OA(publisherhybridgold)) AND TITLE-ABS-KEY(heart) returns documents with *Heart* that are Gold Open Access only
- Entering TITLE-ABS-KEY(heart) AND NOT OA(ALL) returns documents with *Heart* that exclude Open Access documents



- PlumX Metrics provide insights into the ways people interact with individual pieces of research output (articles, conference proceedings, book chapters, and many more) in the online environment.
- PlumX gathers and brings together appropriate research metrics for all types of scholarly research output

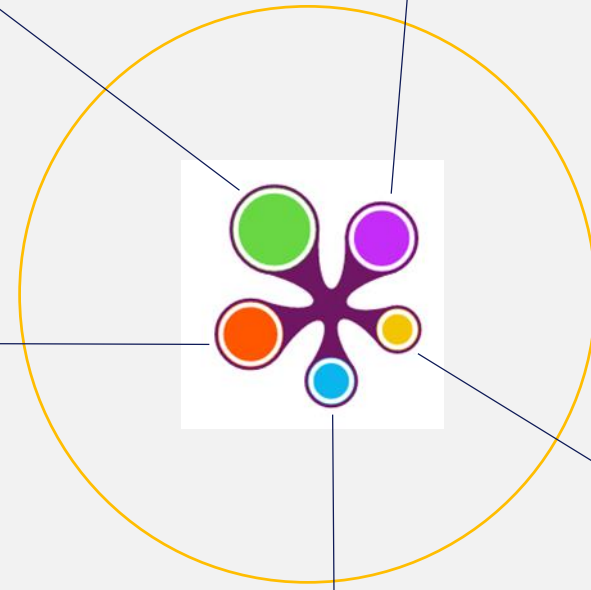


Includes 5 categories of metrics



Usage: clicks, views, downloads, library holdings, video plays

Captures: bookmarks, favorites, reference manager saves



Citations: citation indexes, patent citations, clinical citations, policy citations

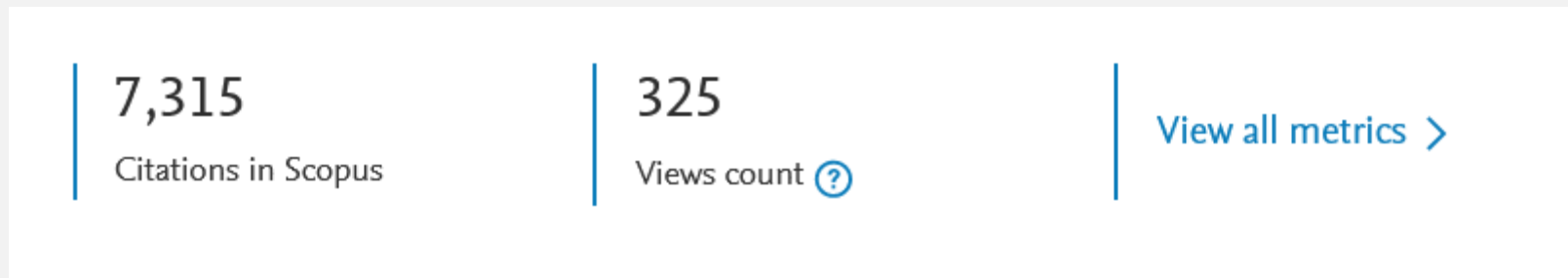
Mentions: blog posts, news mentions, comments, reviews, Wikipedia mentions



Social media: tweets, likes, shares

What's new on the Document details page?

The revamped metrics section, including the new metric, Views Count



What's new on the Document details page?

The new Scopus Author Profile flyout

The screenshot displays a Scopus document page for the article "Chromosomal rearrangements involving the NTRK1 gene in colorectal carcinoma" by Kruczynski A. et al. A new "Author profile preview" flyout is visible on the right side of the page, showing the author's name, affiliation (Centre de Recherche en Oncologie Expérimentale, Institut de Recherche Pierre Fabre), and options to view the full profile or save to a list. The main document page includes metadata such as document type (Article), source type (Journal), ISSN (03043835), DOI (10.1016/j.canlet.2015.05.013), and citation metrics (55 citations in Scopus, 13 views count). The abstract is also visible at the bottom of the page.

Author profile preview

Kruczynski A.
Centre de Recherche en Oncologie Expérimentale,
Institut de Recherche Pierre Fabre, 3 Avenue Hubert
Curien BP13562, Toulouse Cedex 1, 31035, France

[View full profile](#) [Save to list](#)

Recent documents

- Actinic keratosis modelling in mice: A translational study
PLoS ONE, 2017
- Discovery bioanalysis and in vivo pharmacology as an integrated process: A case study in oncology drug discovery
Bioanalysis, 2016
- F14512, a polyamine-vectorized inhibitor of topoisomerase II, exhibits a marked anti-tumor activity in ovarian cancer
Cancer Letters, 2016

[View all documents](#)

Metrics

73	28	2,417
Documents	h-index	Citations by 1655 documents

Corresponding Author
[E-mail](#)

Document details:
Document type: Article
Source type: Journal
ISSN: 03043835
DOI: 10.1016/j.canlet.2015.05.013
Title: Chromosomal rearrangements involving the NTRK1 gene in colorectal carcinoma
Journal: *Cancer Letters* • Volume 365, Issue 1, Pages 107 - 111 • 28 August 2015
Authors: Créancier L.^a, Vandenberghe L.^a, Gomes B.^a, Dejean C.^a, Blanchet J.-C.^a, Meilleroux J.^b, Guimbaud R.^{b,c}, Selves J.^{b,c}, Kruczynski A.^a
Affiliations:
^a Centre de Recherche en Oncologie Expérimentale, Institut de Recherche Pierre Fabre, 3 Avenue Hubert Curien BP13562, Toulouse Cedex 1, 31035, France
^b Centre Hospitalier Universitaire de Toulouse, F-31300, France
^c Centre de Recherche en Cancérologie de Toulouse, Unité Mixte de Recherche 1037 INSERM - Université Toulouse III, France
Cited by 55 documents
Abstract: Chromosomal rearrangements of the NTRK1 gene, which encodes the high affinity nerve growth factor receptor (tropomyosin related kinase, TRKA), have been observed in several epithelial cancers. such as colon cancer. papillary throid carcinoma or non small cell lung cancer. The

What's new on the Document details page? Reaxys integration enhancement

Reaxys Chemistry database information ⓘ

Substances

4-chloro-
3-formylcoumarin

[View details](#)

Powered by **Reaxys**

[← Back to overview](#) ×

4-chloro-3-formylcoumarin

Chemical names
4-chloro-3-formylcoumarin, 4-chloro-2-oxo-2H-chromene-3-carbaldehyde, 4-Chloro-2-oxo-2H-chromene-3-carbaldehyde, 4-chlorochromen-2-one-3-carbaldehyde, 4-hydroxy-3-phenacetylchromen-2-one, 4-chloro-3-formyl-2(2H)-chromenone, 4-chlorocoumarin-3-carboxaldehyde

Molecular formula
C₁₀H₅ClO₃

CAS Registry Number
50329-91-4

[🛒 Suppliers](#) [🔗 Druglikeness](#) [🧪 Preparations](#)

Available data

Bioactivity (9) ▼


Physical Data (24) ▼

<https://www.scopus.com/record/display.uri?origin=citedby&eid=2-s2.0-85113177022&noHighlight=false&sort=plf-f&src=s&sid=84f20a8b8a1b9402705d3d848a0f94c1&sot=b&sdt=b&sl=22&s=CHEMNAME%28benzaldehyde%29&relpos=0>

Improvements to funding data in Scopus

Funding sponsor	Funding number	Acronym
NIH Office of the Director	DP2AI144244	OD
See opportunities by OD ↗		
National Institute of Allergy and Infectious Diseases		NIAID
See opportunities by NIAID ↗		

Scopus to partner with Mendeley Web Importer for full-text document download

 Mendeley ×

− Select All My Library ∨ Add

JOURNAL ARTICLE

Homeostasis model assessment: insulin resistance and β -cell function from fasting plasma glucose and insulin concentrations in man PDF
D. R. Matthews, J. P. Hosker et al.
Diabetologia, 28, 7, 7 1985
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Scopus Document Download Manager ×



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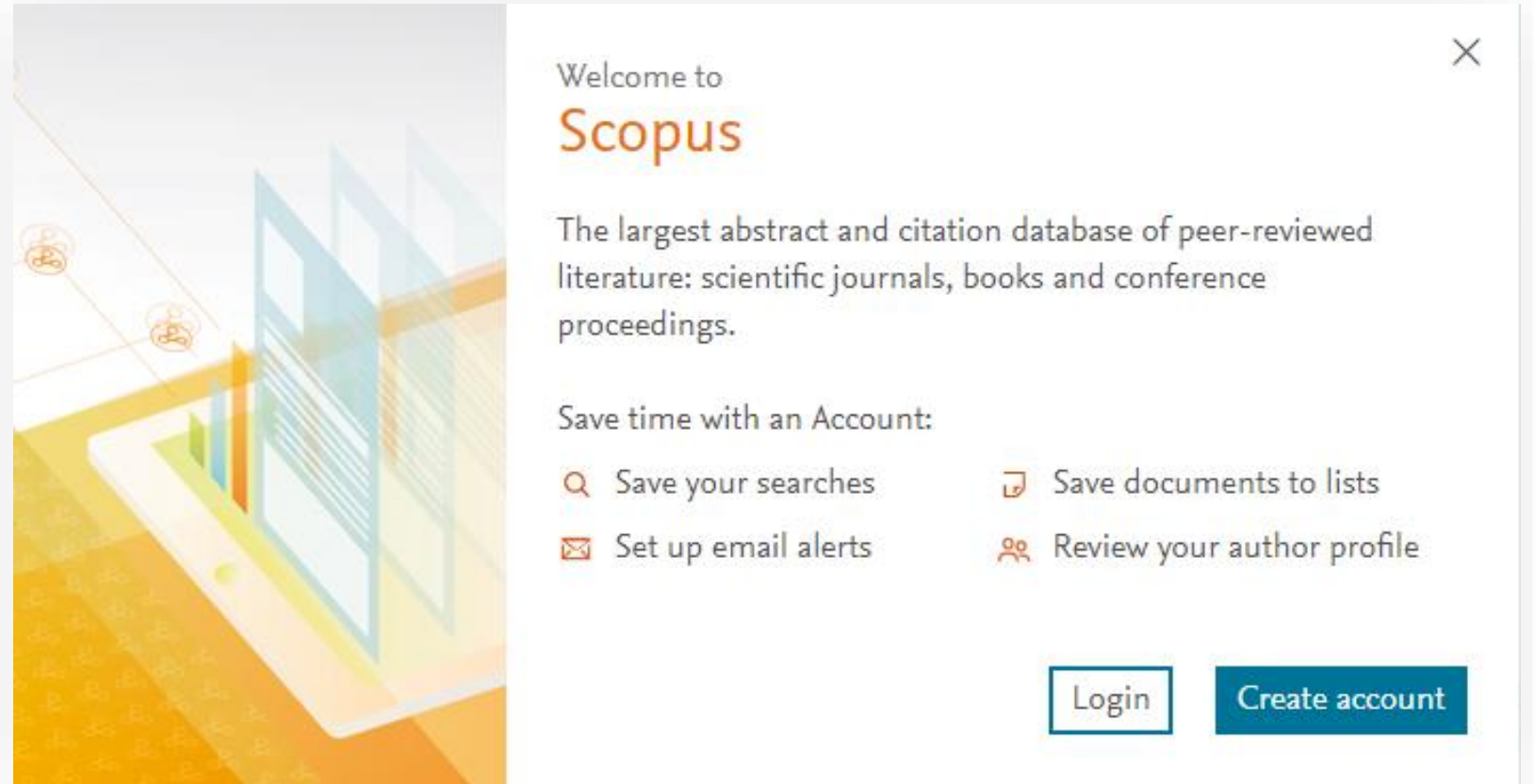
1. Homeostasis model assessment: insulin resistance and β -cell function from fasting plasma glucose and insulin concentrations in man

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Unlock greater functionality with your own account

- Get the research delivered to you with email alerts
- Save searches and document lists
- Review and update your author profile with ease



Scopus benefits your research at every stage

Effective multi-disciplinary discovery and opportunity finding

- The Global View: discovery and tracking of scientific developments across disciplines & the world.
- Accelerate research process, avoids duplication of research efforts.
- Find new funding opportunities.
- Develop new processes and solutions faster, securing new patents.

Efficient research and publication process

- Speed up publication process, find the best journals using journal metrics and journal analysis tools.

Effective research assessment, improved output and ranking

- Identify researchers and institutes for potential collaboration and track their work/output.

Find the best collaborators

- Monitoring and measuring research impact.
- Effectively analyze research from peer researchers.
- Improve publication output and *h*-index.

Better career development

- Manage career, track citations, find job opportunities, find collaborators, secure funding, find the best journals to publish in.

Built to address your needs

Scopus supports your goals across your career, wherever that may take you

Researcher (post-doc)

- How do I make sure I don't miss any relevant information?
- How can I get a quick overview of a new subject area?
- Which journals should I publish in to make myself more visible to the research community?
- How can I get tenure and advance my career?
- How do I find funding?

Researcher (senior)

- How do I compare myself and my research team against peers?
- How many times have I been cited by others?
- Who should I collaborate with to increase my chances of publishing successfully and getting cited?
- How do I secure more funding?

Corporate researcher

- How can I get a quick overview of a new subject area?
- What are my competitors working on?
- Who is the key opinion leader in a specific area?
- How can I increase productivity and decrease cost/time to market?
- How can I make the most of my company's resources?

Scopus author profiles

Scopus author profiles

Author profiles deliver key details on author output, metrics, and identification

- Identifiers; Affiliation, Author IDs, ORCID, and alternate names
- Output: subject area coverage; output over time; citations
- Metrics: h -index; citations, and more

Rassam, Patrice

[View potential author matches](#)

Author ID: 37034863900 ⓘ

Affiliation(s): ⓘ

University of Oxford, Oxford, United Kingdom [View more](#) ▾

Other name formats: [Rassam, P.](#)

Subject area: [Biochemistry, Genetics and Molecular Biology](#) [Immunology and Microbiology](#) [Chemistry](#) [Physics and Astronomy](#)
[Multidisciplinary](#) [Medicine](#) [Computer Science](#) [View all](#) ▾

Documents by author

14

[Analyze author output](#)

Total citations

319 by 267 documents

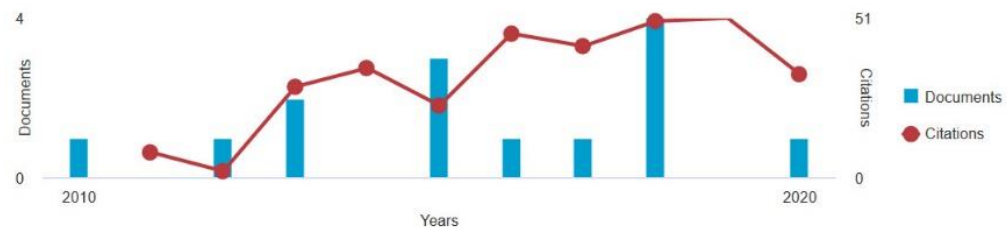
[View citation overview](#)

h -index: ⓘ

9

[View \$h\$ -graph](#)

Document and citation trends:



Profile actions

[Edit author profile](#)

[Connect to ORCID](#) ⓘ

[Alerts](#)

[Set citation alert](#)

[Set document alert](#)

[Save to author list](#)

[Export profile to SciVal](#)

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[PR](#) Patrice Rassam ↗

University of Oxford
14 Documents

[Is this you?](#)

Scopus: the premier source of profiles

The Scopus data model

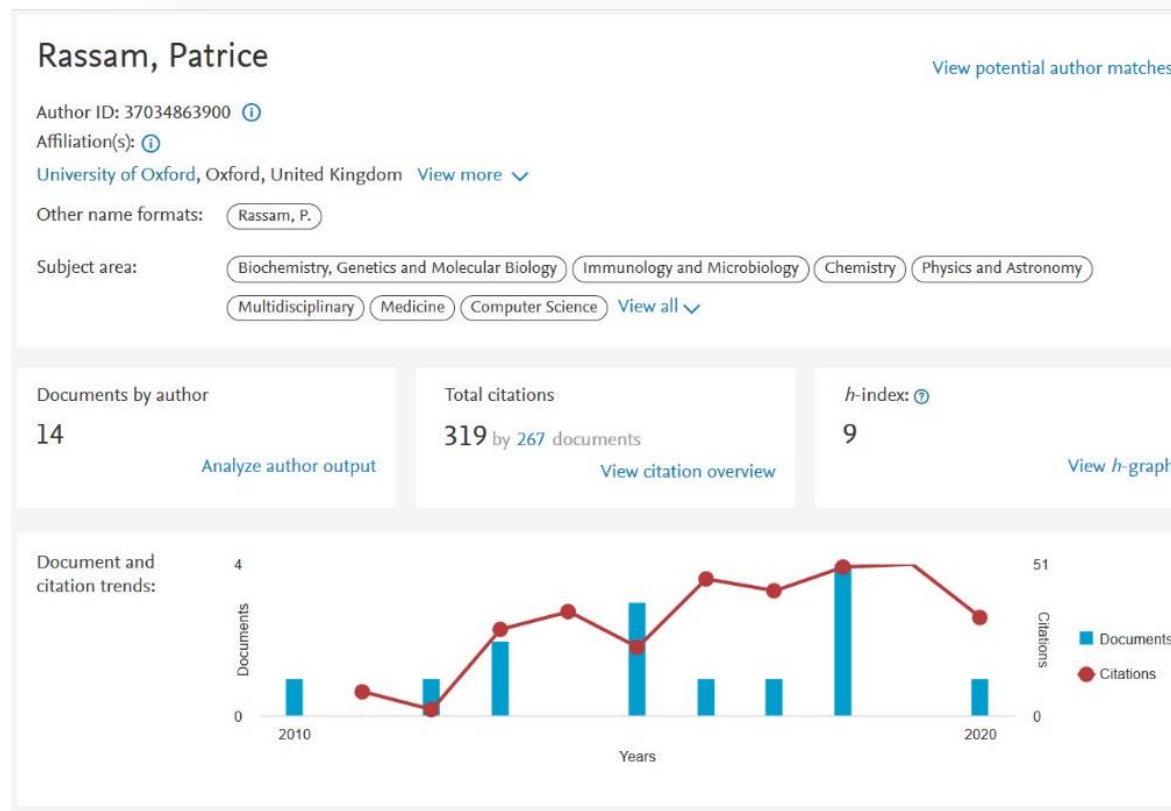
The data that goes into **Scopus** follows the model that **articles** are written by **authors** who are affiliated with **institutions**.

This relational data model means that Scopus can tell you who is researching what is global literature and where they are doing it with higher accuracy than anyone else.

Scopus is the only database that implements algorithmic & systematic author disambiguation.



You can make corrections directly from an author profile



Profile actions

- [Edit author profile](#)
- [Connect to ORCID](#) ⓘ
- [Alerts](#)

Profile actions

- [Edit author profile](#)
- [Connect to ORCID](#) ⓘ
- [Alerts](#)
 - [Set citation alert](#)
 - [Set document alert](#)
- [Save to author list](#)
- [Export profile to SciVal](#)
- [Learn more about Scopus Profiles](#) ↗

- Update the profile or suggest updates within a given profile

New Author Feedback Wizard (AFW) improvements

[← Back to author profile](#)

Review profile details for

[About the Author Feedback Wizard ⓘ](#)

Matthews, David Richard

Author details

Documents

Preprints

Awarded grants

Author details

Preferred Name

Matthews, David Richard



Current affiliation

University of Oxford Medical Sciences Division



Documents

Preprints

Awarded grants

Each metric provides a complementary measure of performance

	Measures	Validation in Scopus?	Size-normalized?	Subject field-normalized?	Communicates magnitude?	Update frequency
CiteScore	Citations per document	Yes	Yes	No	Yes	Annually, and monthly for CiteScore Tracker metrics
CiteScore Percentile	Relative position within subject field based on CiteScore	Yes	Yes	Yes	No	
Citation Count	Raw impact of a journal on the research community	Yes	No	No	Yes	
Document Count	Raw scale of a title within the research community	Yes	No	No	Yes	
% cited	Consistency with which a title's contents are reliably cited	Yes	Yes	No	No	
SNIP	Relative citations per document	No	Yes	Yes	No	Annually
SJR	Prestige of citing sources	No	Yes	Yes	No	

Preprints are now in Scopus!

- A preprint is a version of a scholarly paper that precedes publication in a peer-reviewed journal and act as an early indication of research.
- Scopus covers preprints from 2017 onwards.

1233 Documents

Cited by 136740 Documents

2 Preprints

6621 Co-Authors



New in Scopus: Preprints

We have added preprints to author profiles to help you discover the latest contributions of a researcher. Preprints are non-peer reviewed publications and are directly derived from arXiv, bioRxiv, ChemRxiv, medRxiv and SSRN servers and follow their respective curation policies. Preprints do not affect existing publication and citation metrics in Scopus.

Scopus covers preprints from 2017 onwards. [Learn more](#)

Awarded grants

- Awarded grants is a beta feature showing the funding awards associated with a profile from a selection of US funders.

1233 Documents

Cited by 136740 Documents

2 Preprints

6621 Co-Authors

Topics

0 Awarded grants Beta



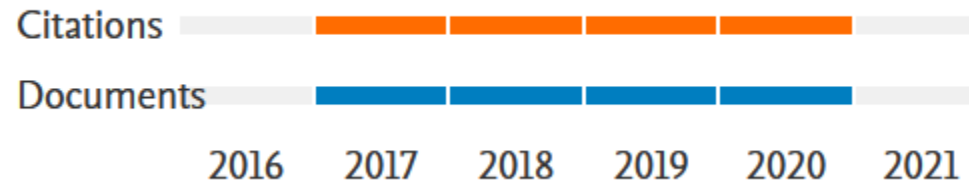
There are no (US) Awarded grants linked to this profile

Awarded grants is a beta feature showing the funding awards associated with a profile from a selection of US funders. We are working on expanding our coverage and subsequent phases will include additional national and international funders.

[Learn more](#) ↗

CiteScore 2020 methodology

- The CiteScore calculation (numerator and denominator) consists of the following publication types: articles, reviews, conference papers, data papers and book chapters.



What lies behind the averages and significance of citation indicators in different disciplines?

[Bárbara S. Lancho-Barrantes](#), [Vicente P. Guerrero-Bote](#), [Félix Moya-Anegón](#)

First Published April 13, 2010 | Research Article

<https://doi.org/10.1177/0165551510366077>

[Article information](#) ▾



CiteScore metrics are comprised of eight metrics

CiteScore

An annual value that measures the citation impact of a title (i.e., journal, book series, conference proceeding and trade journal; including special issues).

CiteScore Tracker

A monthly value that allows you to track a title's progress towards the next annual CiteScore value as a current indication of a title's performance

CiteScore Percentile

Indicates the relative standing of a title in its subject field, and also corrects for the different sizes of subject fields

CiteScore Quartiles

Bands of titles that have been grouped together because they occupy a similar position within their subject categories.

CiteScore metrics are comprised of eight metrics

CiteScore Rank

Indicates the absolute standing of a title in its field; for example, 14th out of 63 titles in a given category

Citation Count

The sum of citations received in 4 years by documents published in the 4 previous years (the numerator of the CiteScore calculation).

Document Count

The sum of documents published in the serial title in the previous 4 years (the denominator of the CiteScore calculation).

Percentage Cited

The proportion of the documents considered in the denominator of the CiteScore calculation that have received at least 1 citation in the numerator.



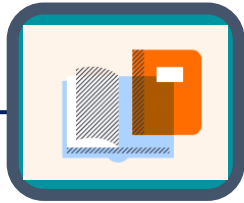
ScienceDirect

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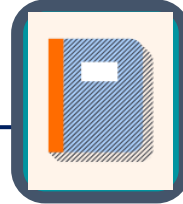


Facts and Figures - ScienceDirect

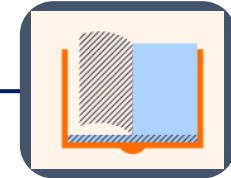
Elsevier's **leading information solution** for researchers, a **full-text** platform for **scientific, technical and medical** journals & books.



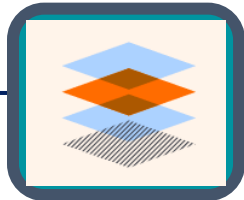
> **18M** articles and chapters



> **2650** Peer reviewed journals



> **30K** ebooks



> **362K** topic pages



> **1000** open access publications



> **1.4M** open access articles

Search

And subsequently filter
down the results



stem cell Author name Journal/book title Volume Issue Pages Advanced search

Suggested publications: [View all](#)

603,570 results

[Set search alert](#)

Refine by:

Years

- 2019 (3,381)
- 2018 (42,802)
- 2017 (37,981)

[Show more](#)

Article type

- Review articles (72,315)
- Research articles (334,135)
- Encyclopedia (8,849)
- Book chapters (50,694)

[Show more](#)

Publication title

- Brain Research (9,497)
- Biology of Blood and Marrow Transplantation (9,447)
- Gastroenterology (6,724)

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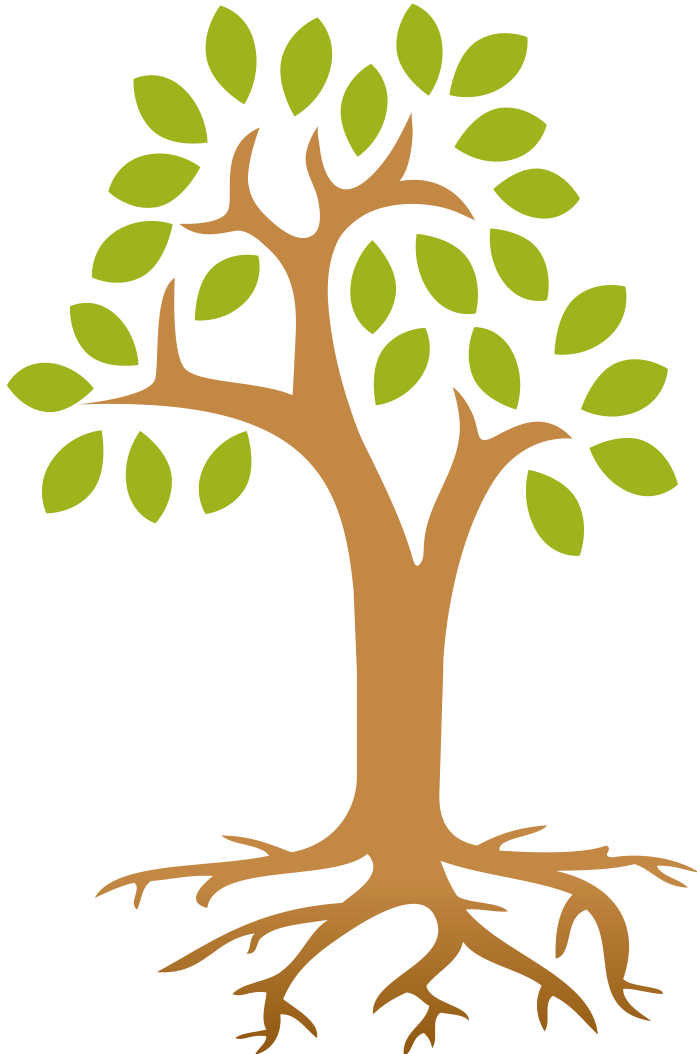
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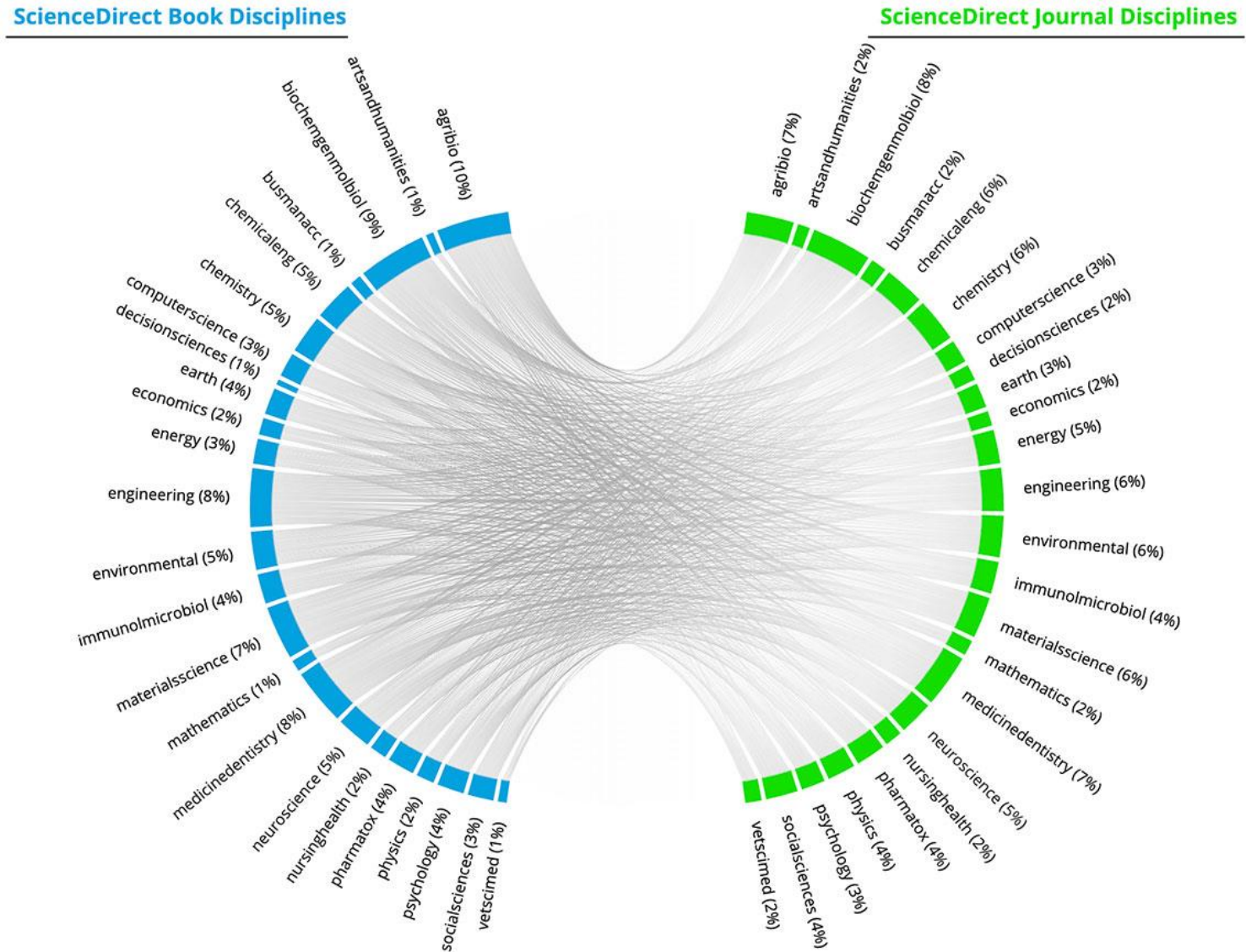
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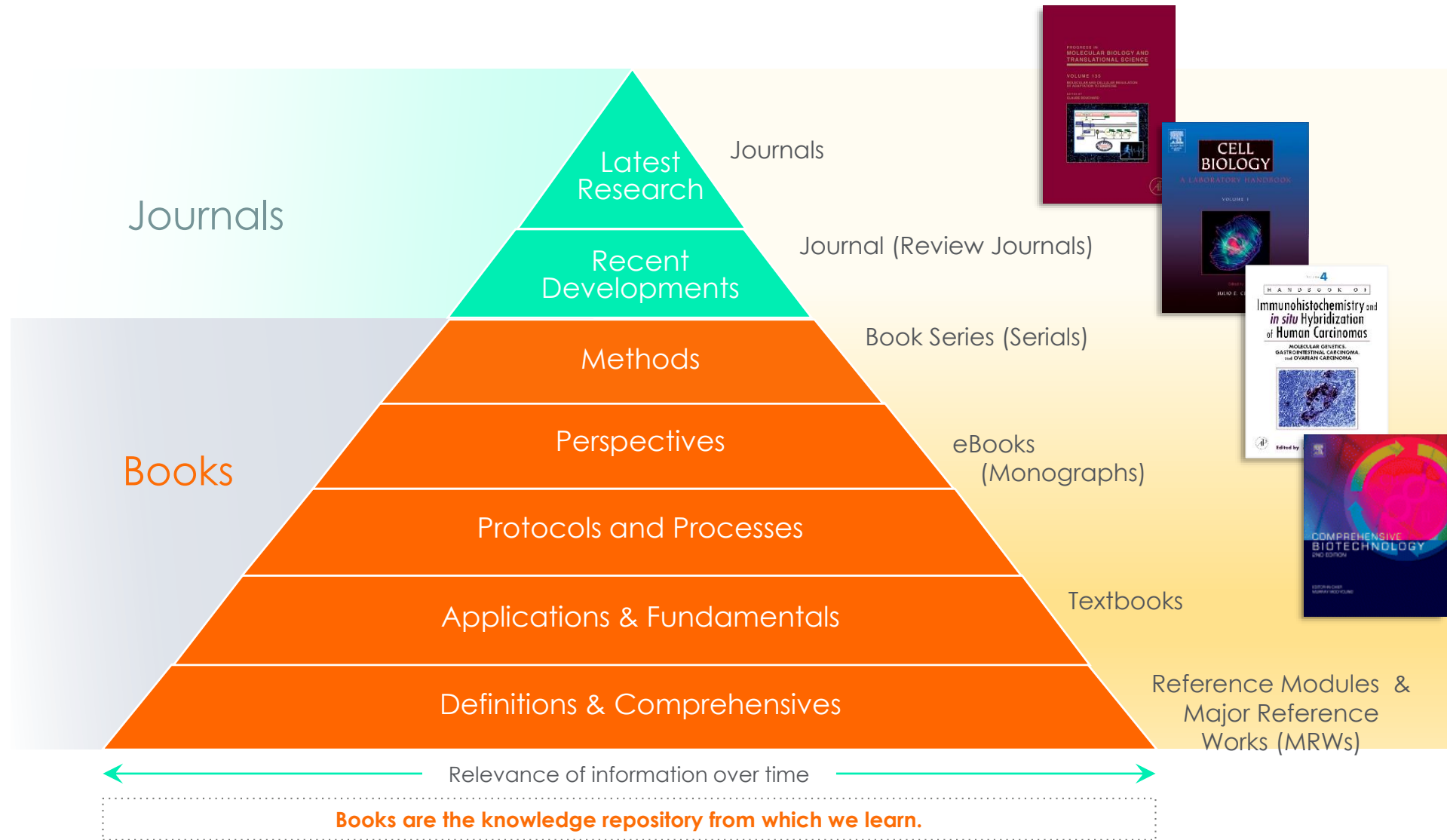
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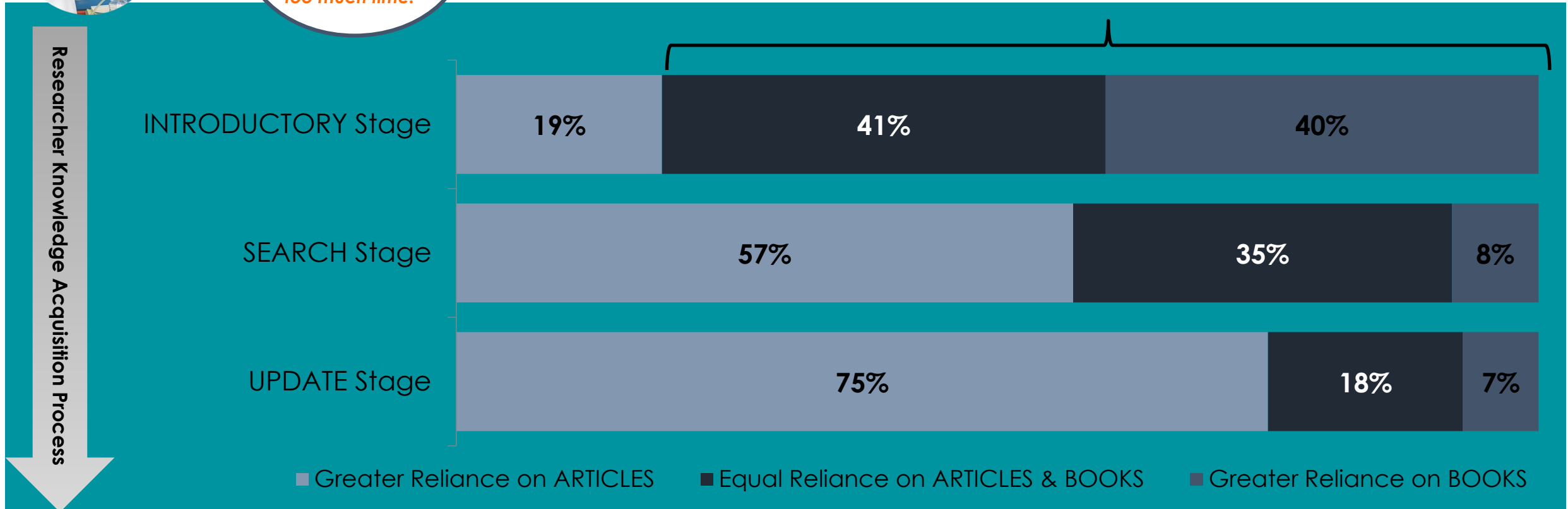
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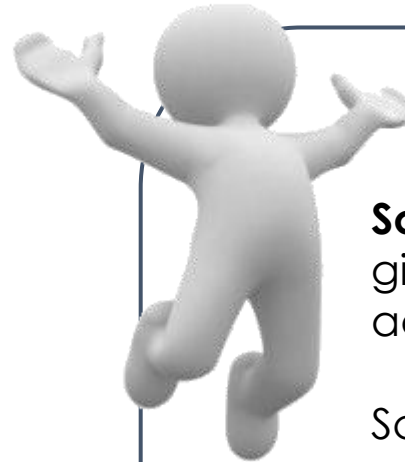
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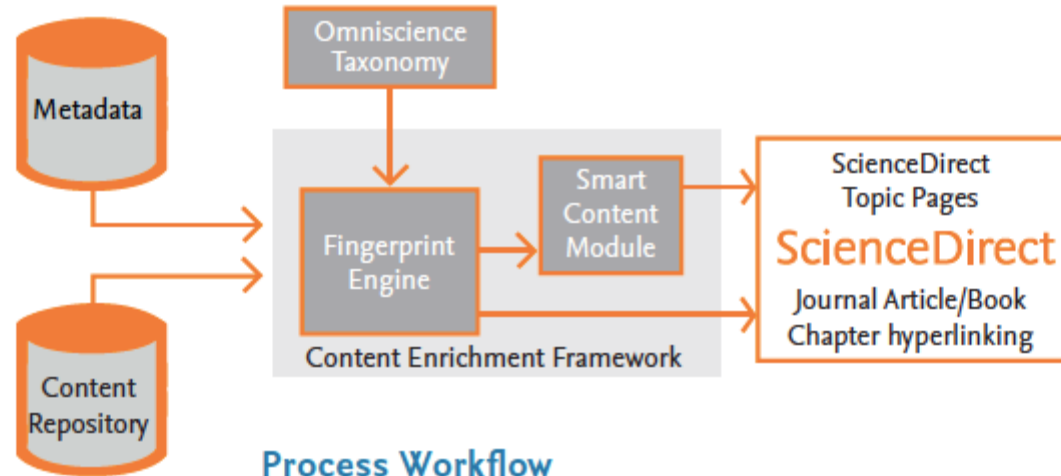
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Neuroscience & Biobehavioral Reviews
Volume 50, March 2015, Pages 29–40

Review
Biological complexity and adaptability of simple mammalian olfactory memory systems

P. Brennan^a, E.B. Keveme^b

https://doi.org/10.1016/j.neubiorev.2014.10.020

Highlights

- Olfactory learning and memory.
- Pheromonal learning and memory in the vomeronasal system.
- Chemosensory receptor neuron turnover.
- GABA-ergic neurogenesis and olfactory learning.
- Adaptability of olfactory and pheromone memories.

Abstract
Chemosensory systems play vital roles in the lives of most mammals, including the detection and identification of predators, as well as sex and reproductive status and the

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Neurogenesis

Neurogenesis is defined as the formation of new neurons from neural stem and progenitor cells which occurs in various brain regions such as the subgranular zone of dentate gyrus in the hippocampus and the subventricular zone of lateral ventricles.

From: *Physical Activity and the Aging Brain*, 2017

Learn more about Neurogenesis

The Zebrafish: Cellular and Developmental Biology
Prisca Chapouton, Laure Bally-Cuif, In *Methods in Cell Biology*, 2014

Molecular Mechanisms of Memory
S. Jesberger, ... F.H. Gage, In *Learning and Memory: A Comprehensive Reference*, 2008

441,6
Conclusions
The discovery of ongoing neurogenesis throughout adulthood has undoubtedly challenged our understanding of neuronal development and adult hippocampal function. Even though our understanding of fine instruction, neuronal migration, and integration is quickly growing, several key questions remain unanswered. From a cellular and molecular standpoint, it will be very important to understand the in vivo potency of NSCs and why neurogenesis only occurs in two restricted areas of the adult brain under normal conditions. Furthermore, little is known about which signaling pathways are involved in the extension and pathfinding of axonal and dendritic processes arising from newborn neurons.

Finally, the ultimate challenge will be to truly decode the functional role of adult neurogenesis. Defining that role might not only fundamentally change current concepts regarding hippocampal function but could also help us to understand and eventually improve treatment of human neurological diseases.

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Sanger sequencing

Sanger sequencing requires a DNA template, a sequencing primer, a thermostable DNA polymerase, nucleotides (dNTPs), dideoxynucleotides (ddNTPs), and buffer.

From: *Pathobiology of Human Disease*, 2014

Learn more about Sanger sequencing

Techniques for Oral Microbiology
In *Atlas of Oral Microbiology*, 2015.

Sanger Sequencing

Sanger sequencing, also known as the chain termination method, is a technique for DNA sequencing based upon the selective incorporation of chain-terminating dideoxynucleotides (ddNTPs) by DNA polymerase during in vitro DNA replication. It was developed by Frederick Sanger and colleagues in 1977. It was the most widely used sequencing method for approximately 25 years before it was replaced by next-generation sequencing (NGS) methods.

Classical Sanger sequencing requires a single-stranded DNA template, a DNA polymerase, a DNA primer, normal deoxynucleoside triphosphates (dNTPs), and modified nucleotides (ddNTPs) that terminate DNA strand elongation. These ddNTPs lack a 3'-OH group that is required for the formation of a phosphodiester bond between two nucleotides, causing the extension of the DNA strand to stop when a ddNTP is added. The DNA sample is divided into four separate sequencing reactions, containing all four of the standard dNTPs (dATP, dGTP, dCTP, and dTTP), the DNA polymerase, and only one of the four ddNTPs (ddATP, ddGTP, ddCTP, or ddTTP) for each reaction. After rounds of template DNA extension, the DNA fragments that are formed are denatured and separated by size using gel electrophoresis with each of the four reactions in one of four separated lanes. The DNA bands can then be visualized by UV light or autoradiography, and the DNA sequence can be directly read off the gel image or the X-ray film (Figure 2.37). The ddNTPs may also be radioactively or fluorescently labeled for detection in automated sequencing machines. The four reactions can be incorporated into one reaction ...

Overview of Technical Aspects and Chemistries of Next-Generation Sequencing

in S. Hagemann, in *Clinical Genomics*, 2015.

Sanger Sequencing

Chemistry of Sanger Sequencing, Electrophoresis, Detection

In Sanger sequencing [3], DNA polymerase is used to synthesize numerous copies of the sequence of interest in a single primer extension step, using single-stranded DNA as a template. Chain-terminating 2',3'-dideoxynucleotide triphosphates (ddNTPs) are spiked into the reaction. At each nucleotide incorporation event, there is a chance that a ddNTP will be added in place of a dNTP, in which case, in the absence of a 3' hydroxyl group, the growing DNA chain will be terminated. The endpoint of the reaction is therefore a collection of DNA molecules of varying lengths, each terminated by a dideoxynucleotide [4].

The original Sanger sequencing method consists of two steps. In the "labeling and termination" step, primer extension is performed in four parallel reactions, each reaction containing a different ddNTP in addition to [³²S]dATP and dNTPs. A "chase" step is then performed with abundant unlabeled dNTPs. Any nucleotides that have not incorporated a ddNTP will be extended to that they do not interfere with detection. The products are then separated by polyacrylamide gel electrophoresis in four parallel lanes representing dGA, dGT, dGC, and dGG terminators. The DNA sequence is read off of an autoradiograph of the sequencing gel by calling peaks in each of the four lanes (Figure 2.37).

Originally, Sanger sequencing employed the Klenow fragment of Escherichia coli DNA polymerase I. The Kleno...

Links to relevant Book content

DNA Sequencing and the Evolution of the "-Omics"
Marjorie A. Hoy, in *Insect Molecular Genetics (Third Edition)*, 2013.

Decreasing Costs of Sanger Sequencing
Sanger sequencing is now automated (Men et al. 2008). DNA is

Other Post-PCR Detection Technologies
P. Zhang A. Seth H. Fernandes, in *Pathobiology of Human Disease*, 2014.



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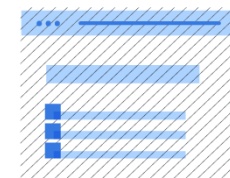
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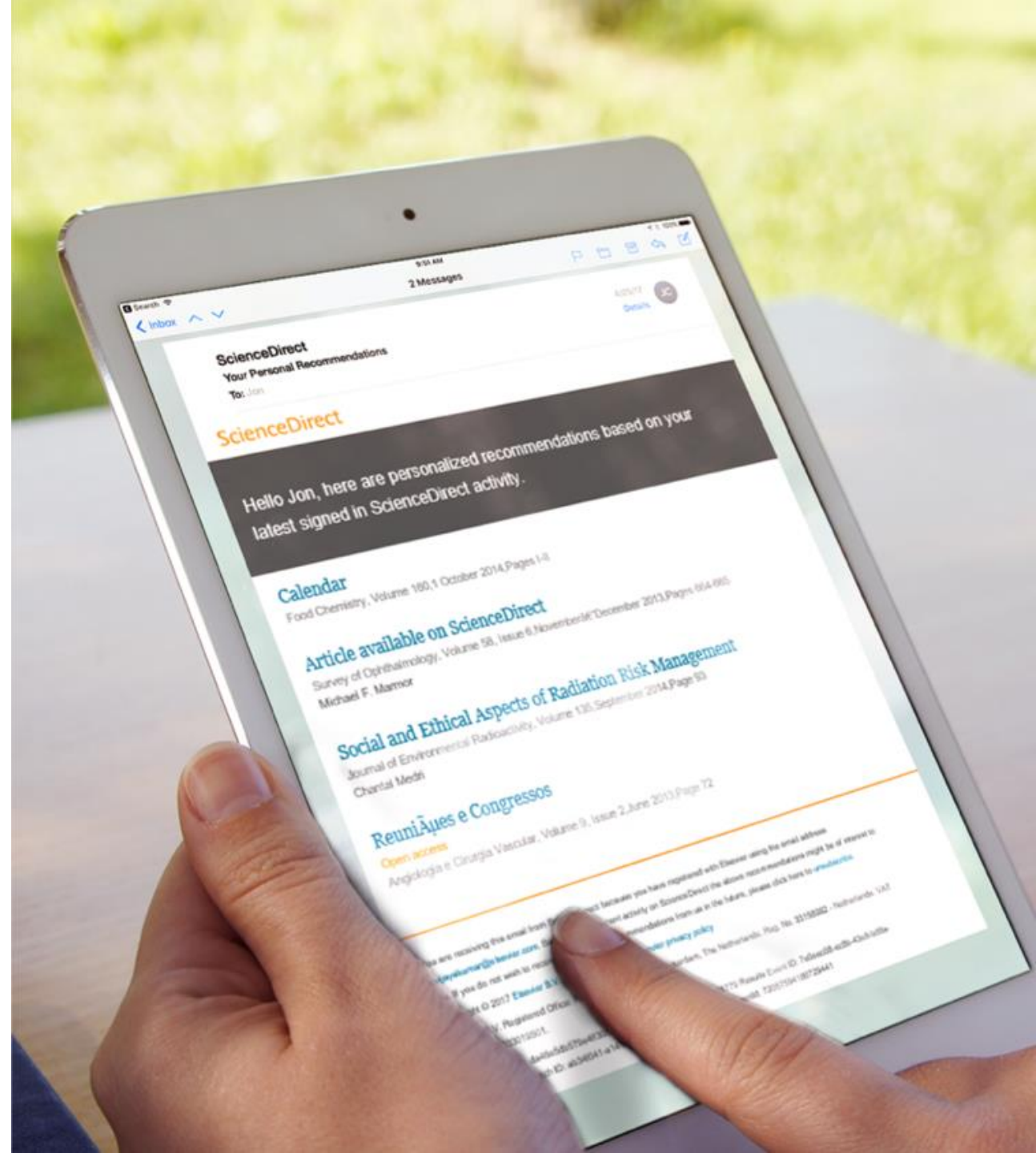
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Zhendong Ding, Mengmiao Mo, Kai Zhang, ...Fansheng Kong

International Journal of Biological Macromolecules • Volume 188 • Pages 43-51 • 1 October 2021

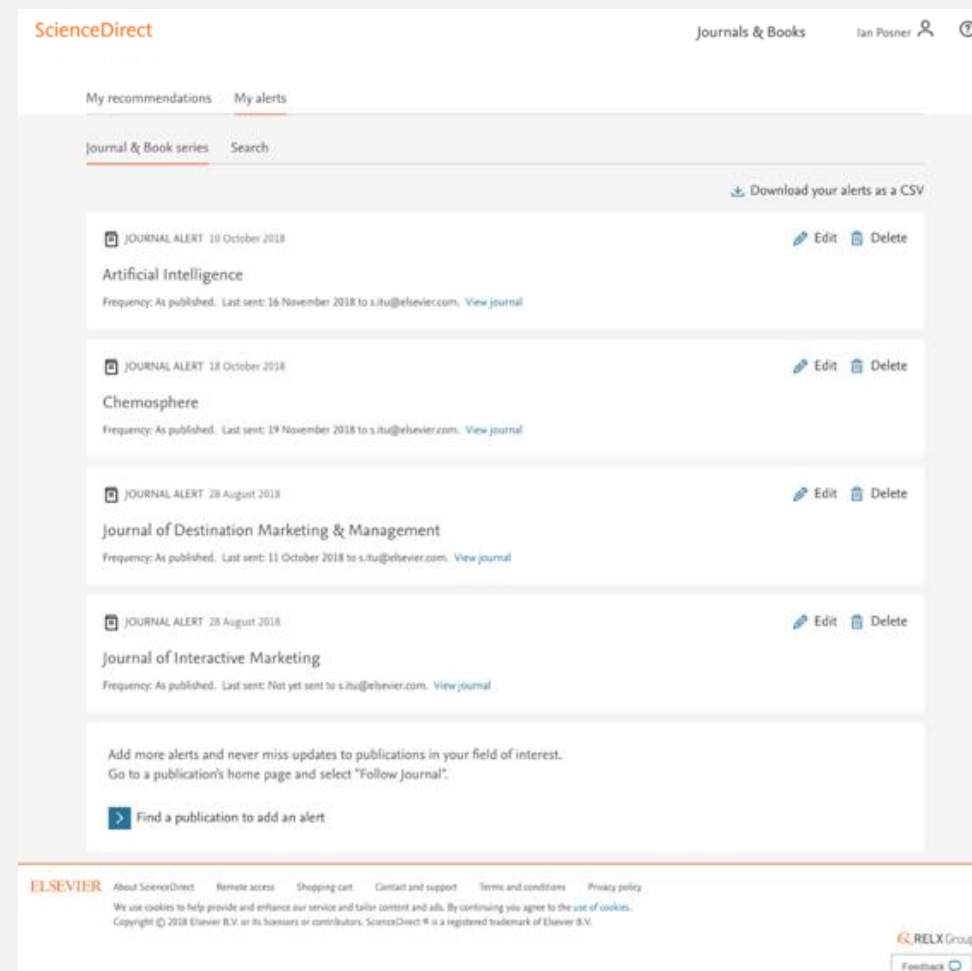
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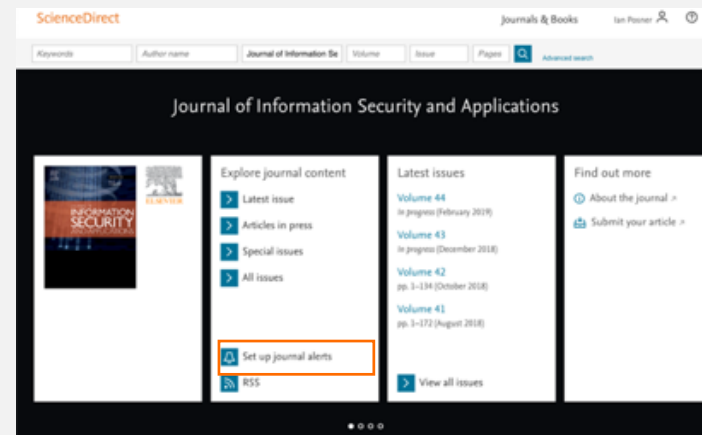
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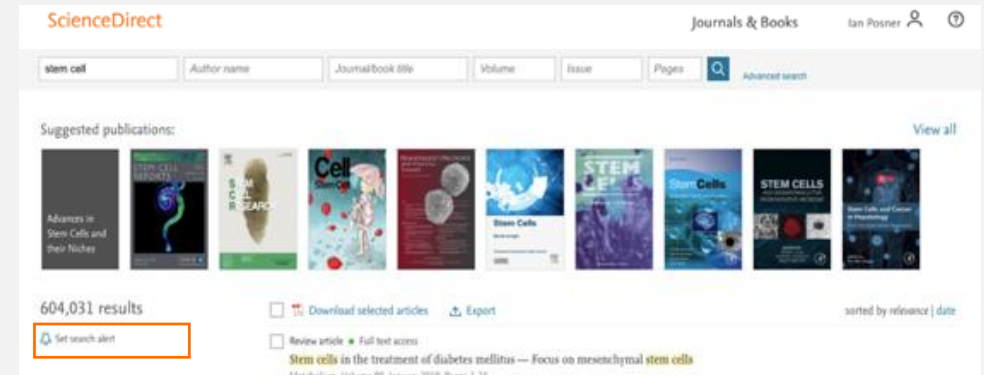
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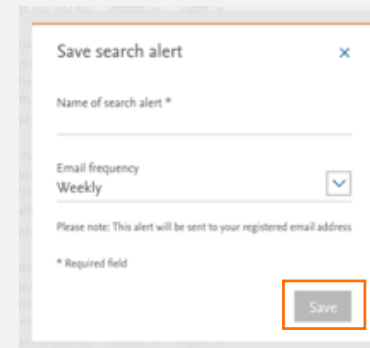
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Abstract

Precision farming using nanoparticles is a cutting-edge technology for safe cultivation of crop plants in marginal areas afflicted with environmental/climatic stresses like salinity, drought, extremes of temperature, ultraviolet B stress or polluted with xenobiotics like toxic heavy metals and fluoride. Major cereal crops like rice, wheat, maize, barley, sorghum and millets which provide the staple food for the entire global population are mainly glycophytes and are extremely susceptible to abiotic stress-induced oxidative injuries. Nanofertilization/exoge

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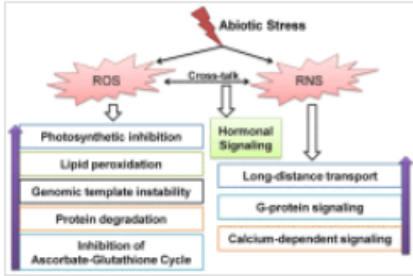


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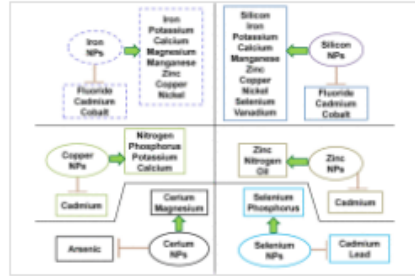


Fig. 2

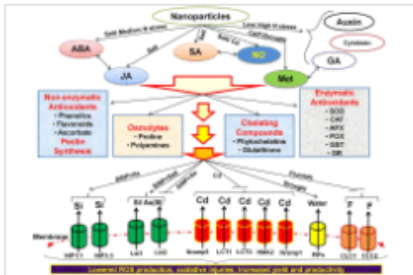


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