

Tracking Research Commercialization with Altmetric

Amy Rees, Customer Support Manager
Hosted by Stacy Konkiel, Director of Research and
Education

Housekeeping

- Webinar will be recorded and slides made available afterwards
- Questions in the 'question box'
- Let us know if you can't hear or see!



Today's speakers



Stacy Konkiel
Director of Research and
Education



Amy Rees
Customer Support Manager



Today's agenda

- What are altmetrics?
- Introduction to patent data
- Where can I see patent data?
- Use cases
- Questions?



What are altmetrics?



TRADITIONAL METRICS

Often slow to accrue
(2-5 years)

citations

ALTMETRICS

Immediate and
longitudinal



Outputs, Sources, & Mentions

Output



Attention source



World Health
Organization

Altmetric mention



Introduction to patent data



What are patents?



Where does Altmetric patent data come from?



Patent coverage

779K+
Patents that
reference
publications

15K+
mentions
of books

3.9K+
Mentions of
clinical trials

9
jurisdictions

255
Mentions of
grey literature

760K+
mentions
of academic papers



IFI Claims sends
Altmetric patent
information



Our scraper looks
for URLs, DOIs,
and PMIDs within
the references
section of a
patent



Collate
attention.



Display patent citation in
Altmetric Details Pages.



How data capture works

Altmetric

Ibudilast, a phosphodiesterase inhibitor, ameliorates experimental autoimmune encephalomyelitis in Dark August rats.

Overview of attention for article published in Journal of Neuroimmunology, March 1999

10

SUMMARY Blogs Patents

This is a preview of a new Altmetric source: references in patents. Patents data are still being processed, so be sure to check back later for updates to this tab.

So far, Altmetric has seen 1 patent that references this research output.

Methods and reagents for the treatment of inflammatory disorders
Grant AU-2004292445-B2
IP Australia
04 Feb 2010

About this Attention Score
In the top 25% of all research outputs scored by Altmetric

Mentioned by
1 blog
1 patent

Readers on
7 Mendeley

Identifiers supported



- DOIs
- Whitelisted URLs (including links to PubMed)

REFERENCE EXTRACTION ID	REFERENCE TEXT	DOIS	URIS
127891	JACKSON A L ET AL: "Widespread siRNA off-target transcript silencing mediated by seed region sequence complementarity", RNA, COLD SPRING HARBOR LABORATORY PRESS, US, vol. 12, no. 7, 1 July 2006 (2006-07-01), pages 1179 - 1187, XP002569696, ISSN: 1355-8382, [retrieved on 20060508], DOI: 10.1261/RNA.25706	<ul style="list-style-type: none">• 10.1261/rna.25706	



Where can I see Altmetric
Patent data?



Altmetric Details Pages



Interoperability of peer-to-peer file sharing protocols

Overview of attention for article published in ACM SIGecom Exchanges, June 2002



SUMMARY

Patents

Title Interoperability of peer-to-peer file sharing protocols

Published in ACM SIGecom Exchanges, June 2002

DOI 10.1145/844339.844350 [↗](#)

Authors Siu Man Lui, Sai Ho Kwok

[View on publisher site](#)
[Alert me about new mentions](#)

MENDELEY READERS

ATTENTION SCORE IN CONTEXT

About this Attention Score

In the top 25% of all research outputs scored by Altmetric

[MORE...](#)

Mentioned by

■ 2 patents

Readers on

■ 15 Mendeley

[?](#) The data shown below were compiled from readership statistics for 15 Mendeley readers of this research output. [Click here to see the associated Mendeley record.](#)



Interoperability of peer-to-peer file sharing protocols

Overview of attention for article published in ACM SIGecom Exchanges, June 2002



? About this Attention Score

In the top 25% of all research outputs scored by Altmetric

[MORE...](#)

Mentioned by

 2 patents

Readers on

 15 Mendeley

SUMMARY

Patents

This is a preview of a new Altmetric source: references in patents. Patents data are still being processed, so be sure to check back later for updates to this tab.

? So far, Altmetric has seen 2 patents that reference this research output.

Method for improving peer to peer network communication

Grant AU-2005208660-B2

IP Australia

22 Jul 2010

METHOD FOR IMPROVING PEER TO PEER NETWORK COMMUNICATION

Application WO-2005074230-A3

World Intellectual Property Organization

09 Sep 2005



Altmetric Explorer



Patents in the Altmetric Explorer



Altmetric
E X P L O R E R





Search for research outputs...

+ ADVANCED SEARCH

Showing all research outputs sorted by patent mentions

SAVE SEARCH

1 2 3 4 5 ... 123,113 123,114

Sort by Patents



Pharmaceutical Salts

Article in **Journal of Pharmaceutical Sciences**, January 1977

507 patent mentions



Comparison of skin staples with sutures for anastomosis of the small...

Article in **Veterinary Surgery**, April 2004

292 patent mentions



EMBOSS: the European Molecular Biology Open Software Suite.

Article in **Trends in Genetics**, June 2000

229 patent mentions



Design of Organic Solids

Book in **Topics in current chemistry**, February 1998

169 patent mentions



Crystalline Polymorphism of Organic Compounds

Book chapter, January 1998

169 patent mentions



Gapped BLAST and PSI-BLAST: a new generation of protein database search programs

Article in **Nucleic Acids Research**, September 1997

137 patent mentions



Efficient wireless non-radiative mid-range energy transfer



Conversion of the Amazon rainforest to agriculture results in biotic...

OVERVIEW

ANALYZE THESE RESULTS

Total mentions	48,225,190
Research outputs	11,818,927
Outputs with mentions	8,027,158
Sources of attention	16

EXPORT

EXPORT SEARCH RESULTS

ATTENTION SUMMARY



Results analysis

Analyzing results for all research outputs sorted by Altmetric Attention Score

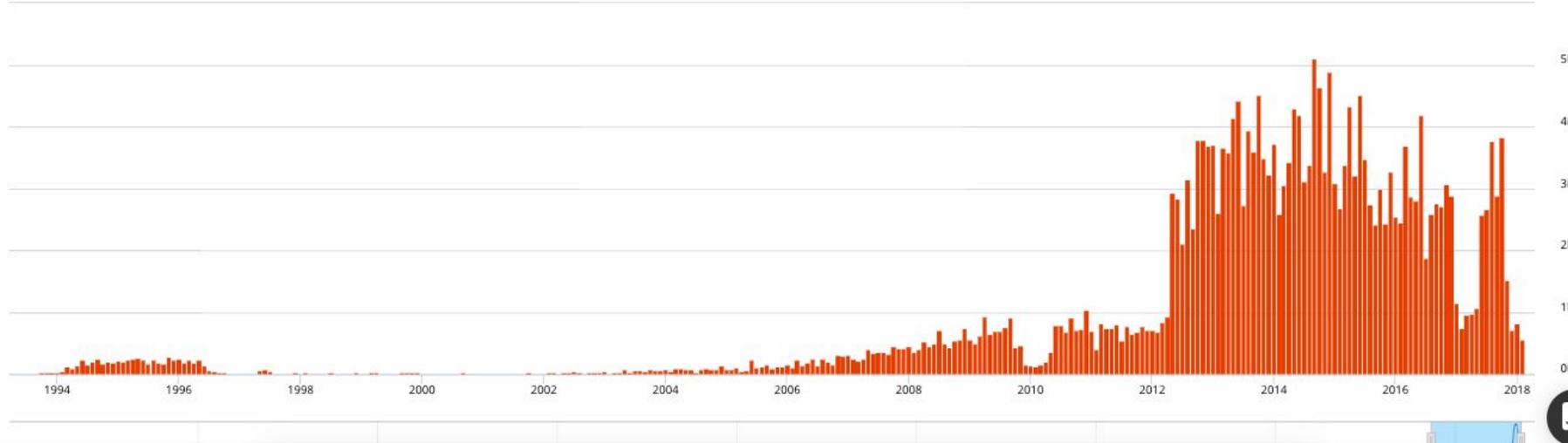


Showing mentions over time for 11,818,927 research outputs in your search query.

WHAT'S IN THIS TAB?

ALL TYPES 48,225,190	NEWS 2,408,538	BLOG 1,115,089	POLICY 902,083	PATENT <input checked="" type="checkbox"/> 37,840,500 259,719	PEER REVIEW 106,741	WEIBO 37,490	FACEBOOK 3,392,993	WIKIPEDIA 1,171,418	GOOGLE+ 566,822	LINKEDIN 1,830
			REDDIT 114,939	PINTEREST 4,716	F1000 198,692	Q&A 31,252	VIDEO 65,945			

ZOOM 1 week 1 month 3 months 6 months 1 year All time





EXPORT THIS TAB

SAVE SEARCH

▼ Add source ALL PATENTS

- News stories
- Policy documents
- Patents
- Sina Weibo posts
- Wikipedia citations
- LinkedIn posts
- Pinterest posts
- Q&A posts
- Blog posts
- Tweets
- Peer reviews
- Facebook posts
- Google+ posts
- ResearchGate posts
- F1000 posts
- Videos



Show mentions from Search for a country

RESET

(1) of research outputs from the results of your search query.

WHAT'S IN THIS TAB?

US AND TRANSMISSION METHOD

present disclosure comprises a transmission signal generator that generates a transmission signal including a legacy preamble, a non-legacy preamble and a data field and a transmitter that transmits

[Canadian general surgeons' opinions about clinical practice audit.](#)
Article in Surgery, March 2013

6:35 PM UTC



USE OF ERIBULIN AND HISTONE DEACETYLASE INHIBITORS IN THE TREATMENT OF CANCER

Patent citation

The invention features methods for treating and preventing cancer (e.g., a hormone sensitive cancer) in a patient in need thereof by administering eribulin (e.g., eribulin mesylate) in combination with a histone deacetylase (HDAC) inhibitor.



[Canadian general surgeons' opinions about clinical practice audit.](#)
Article in Surgery, March 2013



Altmetric API



Altmetric API

```
- patent: [  
  - {  
    title: "COMPOSITIONS COMPRISING MIR34 THERAPEUTIC AGENTS FOR TREATING CANCER",  
    url: "https://app.dimensions.ai/details/patent/EP-2152722-A2",  
    license: "public",  
    - citation_ids: [  
      35284053,  
      26411207,  
      156098,  
      148955,  
      134390,  
      156099,  
      35284076  
    ],  
    posted_on: "2010-02-17T00:00:00+00:00",  
    summary: "In one aspect, the invention generally relates to compositions comprising miR-34 and siRNAs  
functionally and structurally related to miR-34 for the treatment of cancer.",  
    ucid: "EP-2152722-A2",  
    jurisdiction: "EP",  
    filing_status: "Application"  
  },  
],
```



Use Cases



Five perspectives on one study:
Dr. Turner's malaria vaccine



Institutions: Impact Case Studies (REF, RAE)

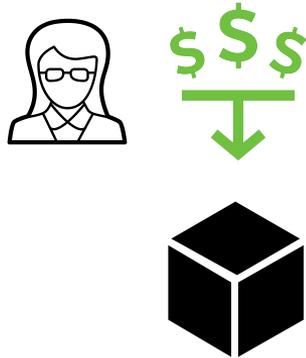
How is our institution's research making a difference?

"...The impact of Dr. Turner's malaria study is clear: countless lives were saved thanks to the patented vaccine she developed and licensed for production..."



Funders: Understanding ROI

What's the impact of our foundation's grant dollars?



"...For every 1 dollar spent funding Dr. Turner's malaria study, 5 dollars were invested in the US economy thanks to the patented vaccine she developed and licensed for production..."



Business: Understanding ROI

What's the impact of a clinical trial?



"...For every 1 dollar spent funding Dr. Turner's malaria study, 5 dollars might be earned thanks to the patented vaccine she developed and licensed for production..."



Researchers: Professional advancement

Crafting compelling narratives when writing *grants*, going up for *tenure*, applying for *jobs*

"...This line of malaria research has formed the basis of four patents, one of which is for a low-cost vaccine that's been administered to over 40,000 children worldwide..."

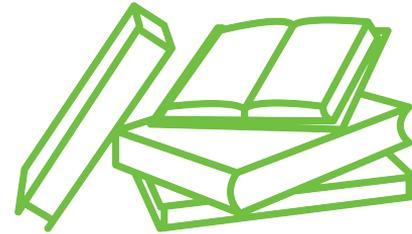


Publishers: Unique outreach, content repurposing

Create thematic
collections

Promote industry uptake
to authors

"...Together, these articles and books have formed the basis of some of the most important technologies we have to fight malaria..."



What's next?

A horizontal bar at the bottom of the slide, divided into three colored segments: green on the left, orange in the middle, and red on the right.

What's next?

- Adding patents prior to 1994
- Improving reference extraction

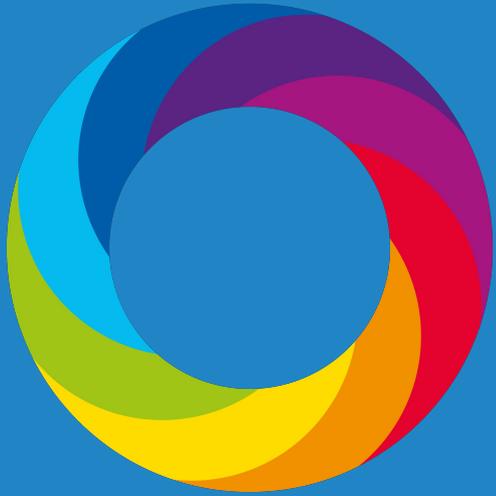
JACKSON A L ET AL: "Widespread siRNA off-target transcript silencing mediated by seed region sequence complementarity", RNA, COLD SPRING HARBOR LABORATORY PRESS, US, vol. 12, no. 7, 1 July 2006 (2006-07-01), pages 1179 - 1187, XP002569696, ISSN: 1355-8382, [retrieved on 20060508], DOI: [10.1261/RNA.25706](https://doi.org/10.1261/RNA.25706)

Cihlar, T. et al., "Design and Profiling of GS-9148, a Novel Nucleotide Analog Active against Nucleoside-resistant Variants of Human Immunodeficiency Virus Type 1, and Its Orally Bioavailable Phosphonoamidate Prodrug, GS-9131," Antimicrobial Agents and Chemotherapy, 52(2):655-65, 2008.



Questions?





Thank you!

For more information:

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info@altmetric.com