



# 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



Altmetric mention



# Introduction to patent data





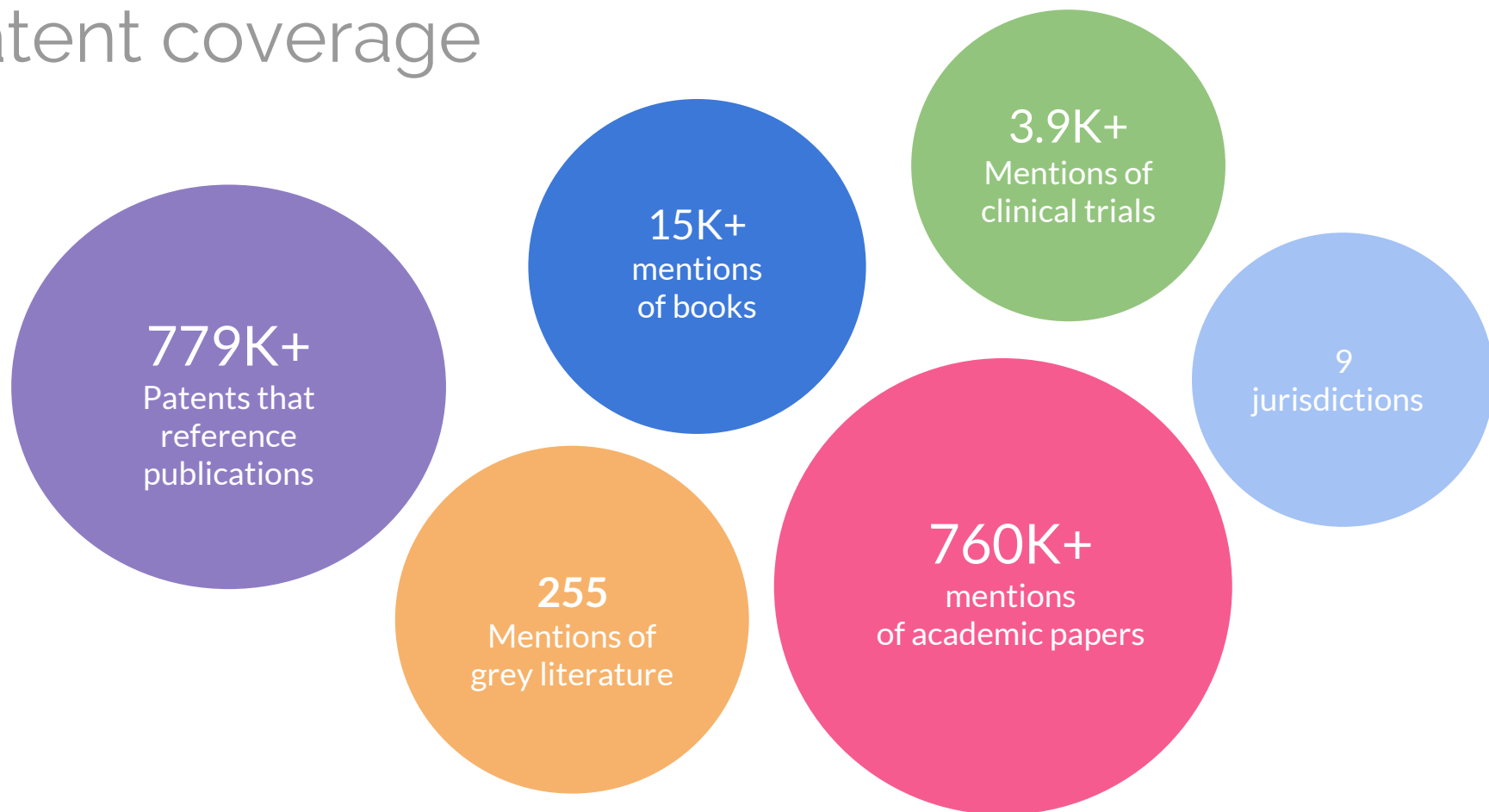
# What are patents?



Where does Altmetric patent data come from?



# Patent coverage



IFI Claims sends  
Altmetric patent  
information



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



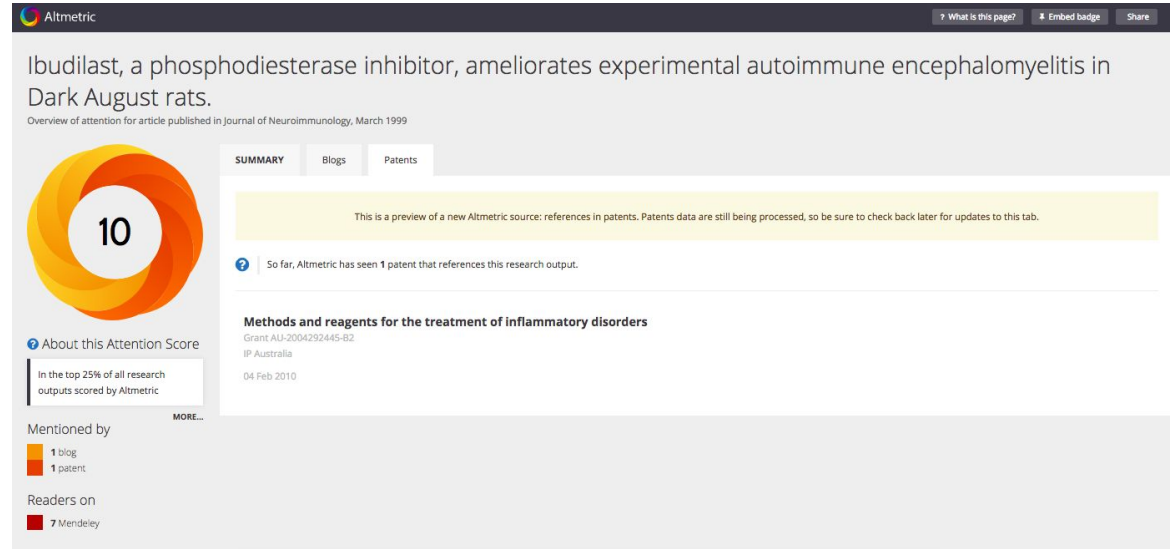
Collate  
attention.



Display patent citation in  
Altmetric Details Pages.



# How data capture works



# 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: <a href="https://doi.org/10.1261/rna.25706">10.1261/rna.25706</a>	<a href="https://doi.org/10.1261/rna.25706">10.1261/rna.25706</a>	



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**  
EXPLORER





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

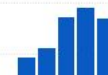
ANALYZE THESE RESULTS

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



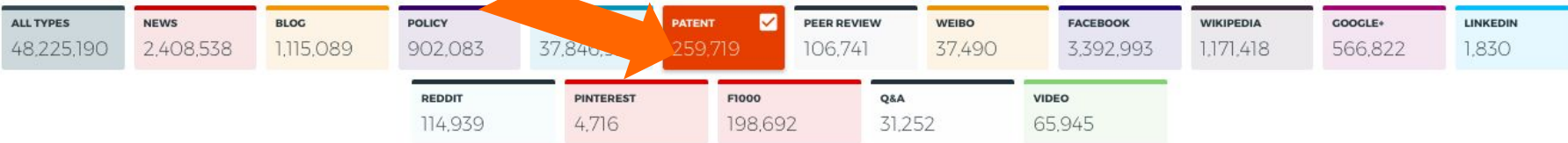
## Results analysis

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?



ZOOM

1 week

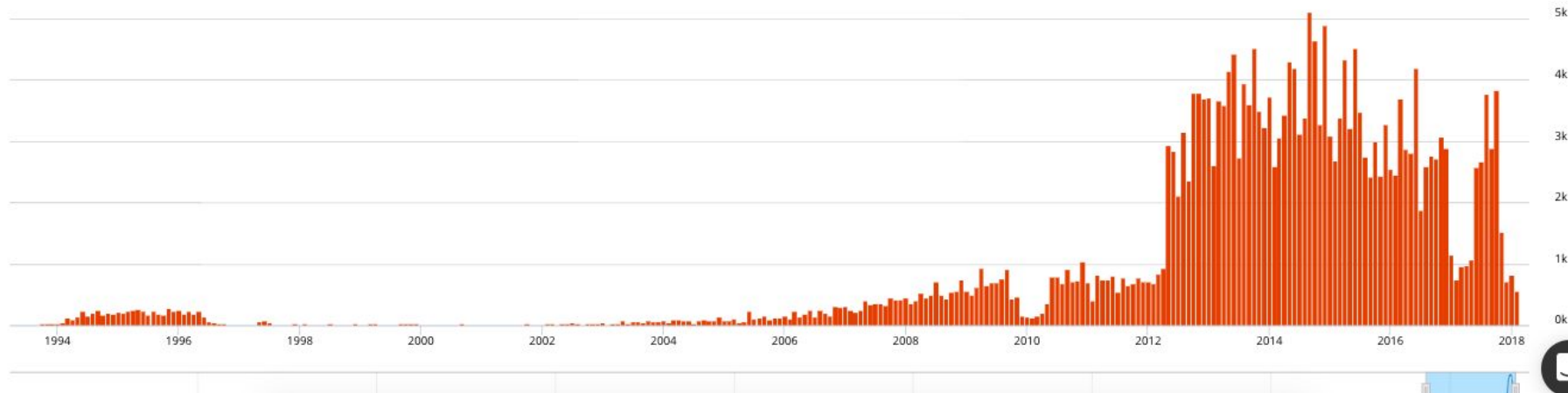
1 month

3 months

6 months

1 year

All time



## Results analysis

Analyzing results for all research outputs sorted by **Altmetric Attention Score**

SUMMARY

HIGHLIGHTS

DEMOGRAPHICS

**MENTIONS**

JOURNALS AND COLLECTIONS

EXPORT THIS TAB

SAVE SEARCH

▼ Add source



ALL PATENTS



News stories



Blog posts



Policy documents



Tweets



Patents



Peer reviews



Sina Weibo posts



Facebook posts



Wikipedia citations



Google+ posts



LinkedIn posts



ResearchGate



Pinterest posts



F1000 posts



Q&A posts



Videos

Show mentions from



Search for a country

RESET

) 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

ons' opinions about clinical practice audit.

013

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)

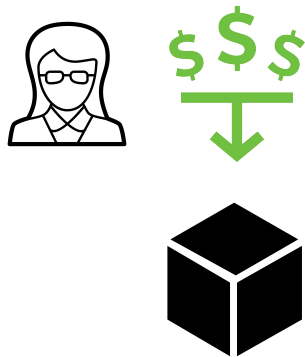
How is our institution's research making a difference?

*"...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?



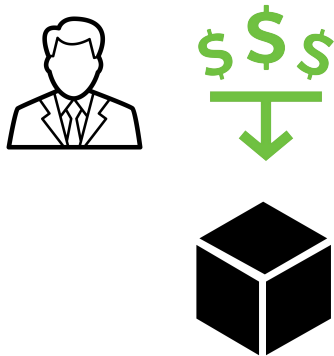
*"...For every 1 dollar spent funding Dr. Turner's malaria study, 5 dollars were invested in the US economy thanks to the patented vaccine she developed and licensed for production..."*



# 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..."*

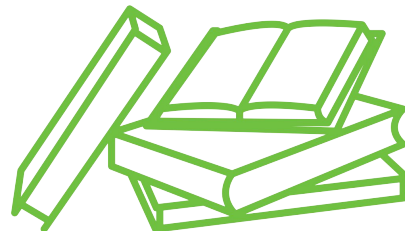


# Publishers: Unique outreach, content repurposing

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?



# 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:**

[help.altmetric.com](https://help.altmetric.com)

[info@altmetric.com](mailto:info@altmetric.com)