Dr Thomas Shafee

@WikiJMed @WikiJSci @WikiJHum

# WIKIPEDIA-INTEGRATED ACADEMIC JOURNALS

DEAL PLATFORMS FOR OUTREACH AND PUBLIC COMMUNICATIONS

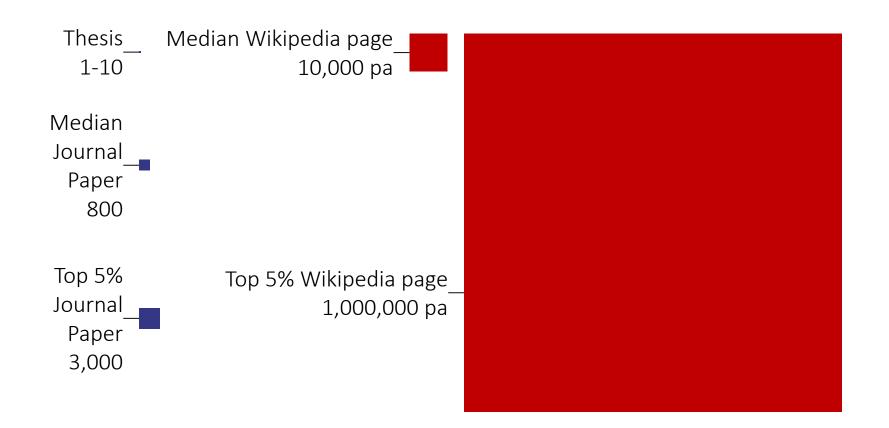
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# A QUESTION OF REACH

MAXIMISING IMPACT



### WHO READS WIKIPEDIA?



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## WHO READS WIKIPEDIA'S MEDICAL CONTENT?

General public Medical students Practicing doctors Research scientists

Fox S, Jones S. *Pew Internet*. 2009 | Hughes B, Joshi I, Lemonde H, Wareham J. *Int J Med Inform* 2009 Oct;78(10):645-655 | Allahwala UK, Nadkarni A, Sebaratnam DF. *Med Teach* 2013 Apr;35(4):337 | Nutzung von Social-Media-Diensten in der Wissenschaft 2017 Goportis – Leibniz-Bibliotheksverbund

# HOW CAN EXPERTS BE ENCOURAGED TO CONTRIBUTE?

MAKING AN IMMEDIATE, REAL-WORLD IMPACT

### SIMILARITIES AND DIFFERENCES

	Academic Journal	Wikipedia
Readership size	Small and brief Median article - 800 total Top 5% article - 3000 total	Very large and extended Median article - 10,000 per year Top 5% article - 1,000,000 per year
Readership composition	Other academics, often within narrow field	General public as well as experts and professionals
Peer review	Pre-publication, private review by 2-4 subject specialists	Post-publication public review of a sort by subject generalists 'Good article' - 1 reviewer 'Featured Article' - 5-12 reviewers
Reputation	Varies by journal but generally extremely high	Public generally trust Academics have mixed opinions by improving
Authorship	Small number with relevant, accredited expertise. Organised group with lead and corresponding authors.	Large number with mixed expertise levels. Loose organisation. Many pseudonymous or anonymous.
Timeliness	Static Updated by new publications	Constantly updated Only one consensus version

### BRIDGING THE ACADEMIC DIVIDE

 Content published into both Wikipedia and academic corpus



Stable, citable, peer-reviewed version with the credibility of a scholarly journal

Living version with extreme impact of Wikipedia

Example journals



PLOS Genetics

PLOS CompBiol

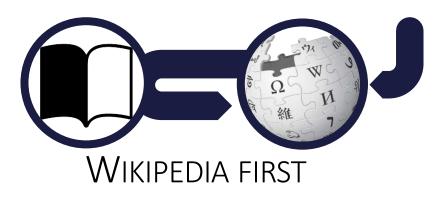


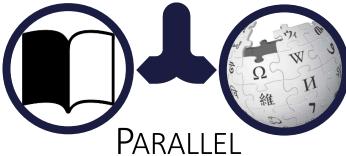
Wiki.J.Med Wiki.J.Sci Wiki.J.Hum

GENE Gene

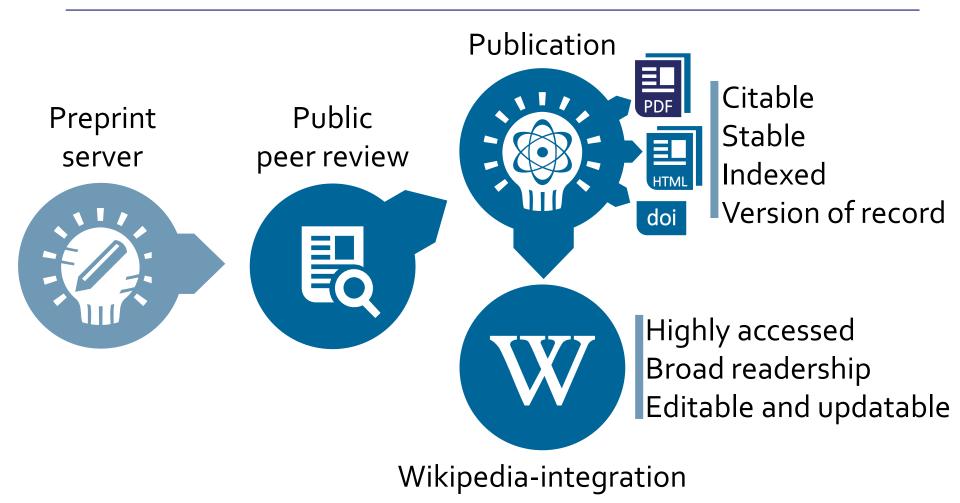
RNAbiology RNA Biology



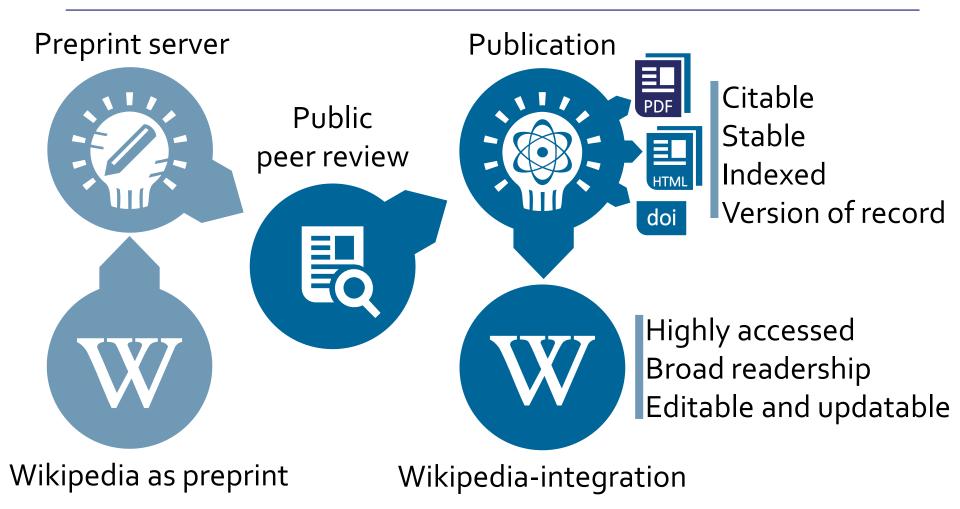




## A WIKIJOURNAL'S PUBLISHING FLOW



## A WIKIJOURNAL'S PUBLISHING FLOW



WikiJSci Editorial Board. (2018). The aims and scope of WikiJournal of Science. WikiJSci 1(1)

### ACADEMIC AND WIKIPEDIC VERSIONS

### PLOS COMPUTATIONAL

### TOPIC PAGE

### Transcriptomics technologies

Rohan Lowe<sup>1</sup>, Neil Shirley<sup>2</sup>, Mark Bleackley<sup>1</sup>, Stephen Dolan<sup>3</sup>, Thomas Shafee<sup>1</sup>\*

1 La Trobe Institute for Molecular Science, La Trobe University, Melbourne, Australia, 2 ARC Centre of Excellence in Plant Cell Walls, University of Adelaide, Adelaide, Australia, 3 Department of Biochemistry University of Cambridge, Cambridge, United Kingdom

### Abstract

Transcriptomics technologies are the techniques used to study an organism's transcriptome, the sum of all of its RNA transcripts. The information content of an organism is recorded in the DNA of its genome and expressed through transcription. Here, mRNA serves as a transient intermediary molecule in the information network, whilst noncoding RNAs perform additional diverse functions. A transcriptome captures a spapshot in time of the total transcripts present in a cell.

The first attempts to study the whole transcriptome began in the early 1990s, and technological advances since the late 1990s have made transcriptomics a widespread discipline. Transcriptomics has been defined by repeated technological innovations that transform the

### References [ edit source ]

The 2017 version of this article has passed academic peer review and been published in the journal PLOS Computational Biology [i] The published version can be read and cited

here and the peer review here.

### Published version

i. A Lowe R, Shirley N, Bleackley M, Dolan S, Shafee T (2017). "Transcription technologies" . PLOS Computational Biology. 13 (5): e1005457. PMC 5436640 @. PMID 28545146 @. doi:10.1371/journal.pcbi.1005457 @.

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Contents

Transcriptomics technologies From Wikipedia, the free encyclopedia Transcriptomics technologies are the techniques used to study an organism's transcriptome, the sum of all of

its RNA transcripts. The information content of an organism is recorded in the DNA of its genome and expressed through transcription. Here, mRNA serves as a transient intermediary molecule in the information network, whilst non-coding RNAs perform additional diverse functions. A transcriptome captures a snapshot in time of the total transcripts present in a cell.

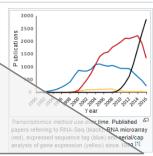
The first attempts to study the whole transcriptome began in the early 1990s, and technological advances since the late 1990s have made transcriptomics a widespread discipline. Transcriptomics has been defined by repeated technological innovations that transform the field. There are two key contemporary techniques in the field: microarrays, which quantify a set of predetermined sequences, and RNA-Seq, which uses high-throughput sequencing to capture all sequences.

Measuring the expression of an organism's genes in different tissues, conditions, or time points gives information on how genes are regulated and reveal details of an organism's biology. It can also help to infer the functions of previously unannotated genes. Transcriptomic analysis has enabled the study of how gene expression changes in different organisms and has been instrumental in the understanding of human disease. An analysis of gene expression in its entirety allows detection of broad coordinated trends which cannot be discerned by more



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## COMMITTEE ON PUBLICATION ETHICS

- WikiJMed ethics statement recently approved by COPE

www.WikiJMed.org/Ethics\_statement

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Text <1 paragraph / <10% of final work: Hyperlink to contributor list 'Acknowledgements' section

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### - Dual publication into Wikipedia

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## SOOOOO... WHO PAYS?

- Reader subscription / author fee (e.g. *Gene, RNA Biol*)
  Typically charge subscription fees
  Article processing fee of \$3300 and \$2000 respectively
- OA journal fee waiver (e.g. *PLOS*)

For Topic Page review articles, PLOS waives its usual \$2250 processing fee

Charitable foundation and volunteerism (e.g. WikiJournals)
 Web hosting cost is covered by the Wikimedia Foundation
 Editors donate volunteer labour so no fees of any kind

# The wider Wikimedia Ecosystem

AN INTERCONNECTED SET OF PLATFORMS













WIKIDATA

WIKIMEDIA

INCUBATOR

















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## A MASSIVE MEDIA REPOSITORY

- Multimedia file repository

Images

Video

Sound

- Public domain / Freely-licensed

Creative commons licenses

- Content scope
  - Educational
  - Informative
  - Instructional
- Like all Wikimedia projects, free and volunteer-run

## The future of data



- Free, open, structured knowledge base
- Humans and machine readable and editable Multilingual, queryable
- Standardised, centralised, highly interlinked

Statements, sources, and connections to other databases

ltem	Property	Value
Q42	P69	Q691283
Douglas Adams	educated at	St John's College

### **PROJECT AND COLLABORATION FORMATS**

Institutional / Long-term Wikipedian in Residence Formal, ongoing partnerships

Repeating meetups Edit-a-thons / Wikibombs

Individual / Short-term Treasurehunts (content, images, citations) Edit training (Wikipedia, Wikidata, Commons)

### INTERNATIONAL PROJECTS

- WikiMedia chapters (e.g. Wikimedia.org.au)



- Wikipedia in Education

Wikipedia editing as part of assessed student coursework

- GLAMWiki

Documentation, Digitisation, Reference hunting, Digital integration

- WikiJournals

Academic journals that dual-publish 1) stable version of record, 2) into Wikipedia

- ORCID integration
- WikiCite
- 1Lib1Ref

### Contact

Email	Thomas.Shafee@gmail.com
Google Scholar	Thomas Shafee
ResearchGate	Thomas Shafee
LinkedIn	Thomas Shafee

### Journals

*WikiJournal of Medicine* (WikiJMed.org) *WikiJournal of Science* (WikiJSci.org) *PLOS* (TopicPagesWiki.plos.org)

### Wikipedia

My userpage

Search "User:TShafee"

Shafee, T; Mietchen, D; Su, A. (2017). "<u>Academics can help shape Wikipedia</u>". *Science*. 357 (6351): 557–558.

Shafee, T; Masukume, G; Kipersztok, L; Das, D; Häggström, M; Heilman, J. (2017). "<u>The evolution of Wikipedia's medical</u> <u>content: past, present and future</u>". *JECH*. 71(10).

Shafee, T (2017) "<u>Wikipedia-integrated</u> publishing: A comparison of successful models". *Health Inform.* 27(2)