2019 CONVENTION

@WikiJMed @WikiJSci @WikiJHum

# WIKIPEDIA AS A KEY PUBLIC HEALTH TOOL

LEVERAGING THE WORLDS MOST-READ INFORMATION SOURCE

### Why edit Wikipedia and sister projects?

### **S**ELFLESS

- The noble cause of free information
- Giving back to a resource you've benefitted from
- Expert input on difficult topics
- Being part of the world's largest open-access project

### SELFISH

- Public engagement and education
   Massive exposure and reach
- Ensure your field is thoroughly and accurately represented
   First google hit for most topics
   (Students, Reviewers, Grant assessors, Journalists, Policymakers)
- Maximise use of the writing and images that you've already done
- Improve your non-specialist writing

# **OUTLINE**

### Why should you be interested in editing Wikipedia?



- A brief introduction to the largest encyclopaedia of all time
- Why it needs you and why you need it

### How to edit



How to edit right!



- Text, images, references

Best practice and common pitfalls

### PART OF THE WIDER KNOWLEDGE ECOSYSTEM



- Connected projects and collaborations

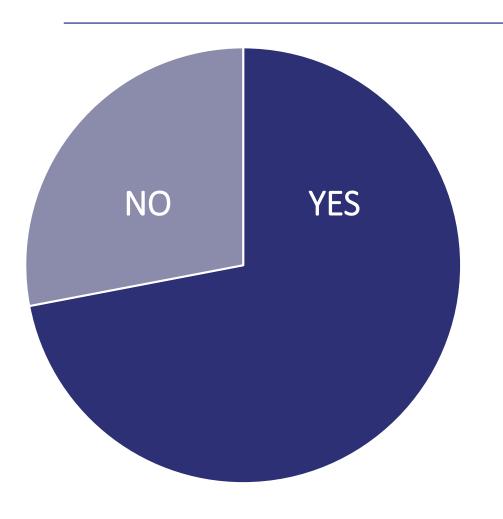
### THE HIDDEN WORLD BEHIND WIKIPEDIA



- Help, community and resources



# Use of the internet for medical info



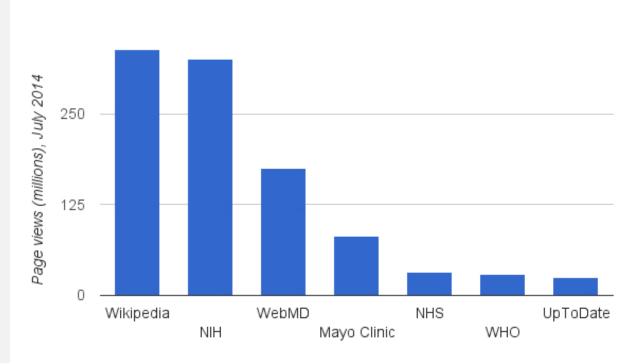
- 72% of internet users report having looked online for health information within the past year
- 53% state that it influenced their decision
- 35% did not follow up their searches by visiting a clinician



### COMPETING SOURCES OF MEDICAL INFORMATION

 Of the many competing sources, most are noncommercial

 Wikipedia's med content dominates most search engine results



### A BRIEF HISTORY

- 2001 began
- 2007 editing peak

  But poor accuracy

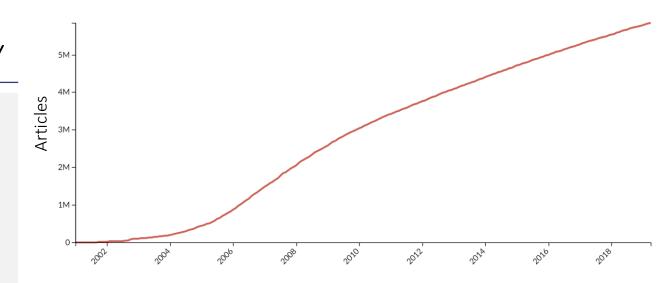
  Stricter standards lead to fall-off in editors
- 2015 plateau

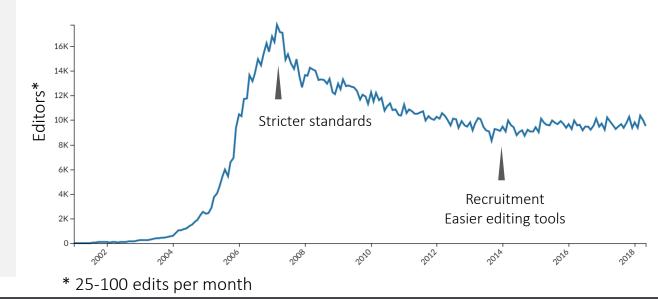
  Concerted recruitment

  Easier editing tools

  First year since 2007

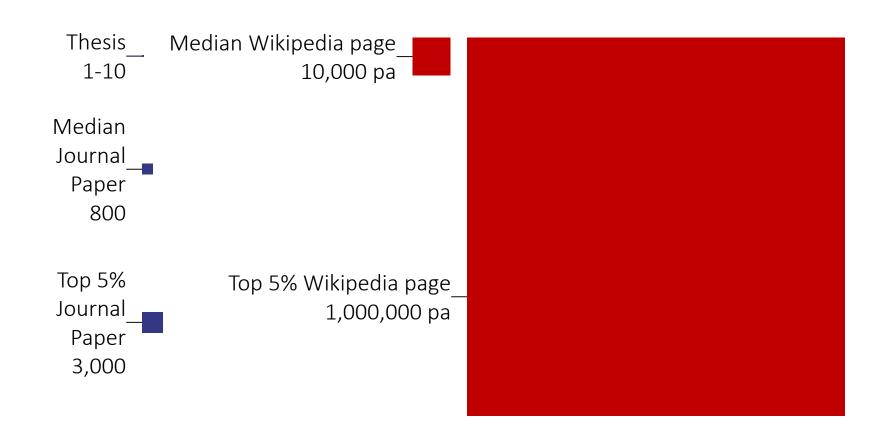
  with editor growth
- In 295 languages
- 5<sup>th</sup> busiest website





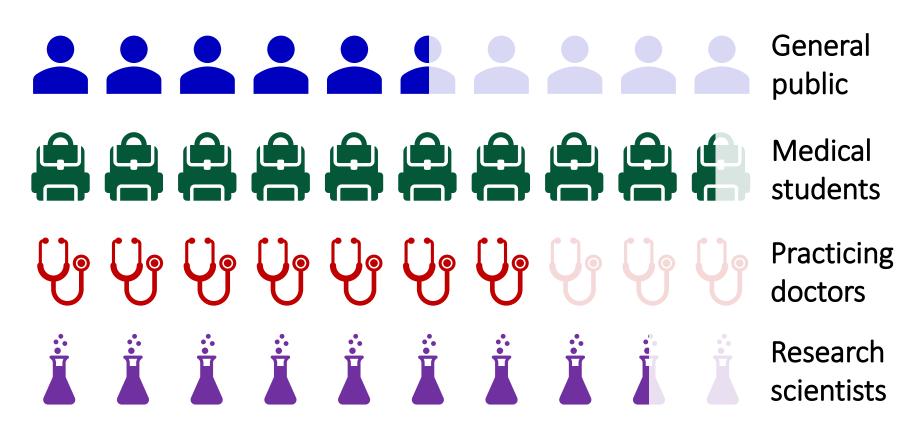


# WHO READS WIKIPEDIA?





# Who reads Wikipedia's medical content?



+ Patients, journalists, lawmakers, etc.



# PUTTING THAT IN PERSPECTIVE

- Suicide prevention
- Suicide among LGBT youth
- Postpartum depression
- Psychology of torture
- Dehumanization
- Family therapy
- Epidemiology of depression
- Digital media use and mental health
- Lithium (drug)
- Short-term memory

100,000 – 1,000,000 reads per year



# ARTICLE QUALITY: INTERNAL REVIEW

Article Talk Read Edit source Edit View history ★ More ▼ Search

- Articles are rated

  Importance

  Quality
- Top two quality ratings

Promoted by review

Status

Displayed on talk page Status can also be revoked by review

		Importance					
		Тор	High	Mid	Low		
Quality	FA	1	6	5	7		Pseudo
	GA	2	11	20	41	<b>(+)</b>	peer-reviewed
	В	17	125	200	98		
	С	15	161	523	415		
	Start	9	174	697	1,433		
	Stub		4	96	687		



This article is within the scope of WikiProject

**Psychology**, a collaborative effort to improve the coverage of Psychology on Wikipedia. If you would

like to participate, please visit the project page, where you can join the discussion and see a list of open tasks.

Stub

High

This article has been rated as **Stub-Class** on the project's quality scale.

This article has been rated as **High-importance** on the project's importance scale.

W Psychology portal



# ARTICLE QUALITY: INTERNAL REVIEW

- Significant issues are tagged with warnings
- Articles can have a variety of additional tags added



This article **needs attention from an expert in Psychology**. The specific problem is: **High Importance articles deserve attention and care from WP:PSYCH and others knowledgeable on this topic.** See the talk page for details. WikiProject Psychology may be able to help recruit an expert. (*May 2017*)



This article **does not cite any sources**. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed. (August 2019) (Learn how and when to remove this template message)

This article has multiple issues. Please help improve it or [Collapse] discuss these issues on the talk page. (Learn how and when to remove these template messages)

- This article's tone or style may not reflect the encyclopedic tone used on Wikipedia. (November 2014)
- This article is written like a personal reflection, personal essay, or argumentative essay that states a Wikipedia editor's personal feelings or presents an original argument about a topic. (November 2014)
- This article may be too technical for most readers to understand.

  Please help improve it to make it understandable to non-experts, without removing the technical details. (November 2014)
- This article may need to be rewritten to comply with Wikipedia's quality standards. (November 2014)
- This article's lead section does not adequately summarize key points of its contents. (December 2014)



# ARTICLE QUALITY: EXTERNAL REVIEW

- Quality comparable to Encyclopædia Britannica even back in 2005
- Accuracy varies by topic, but broad trends:
  - Inconsistent coverage
  - Missing / out of date information
  - Missing illustration
  - Difficult readability
- Accuracy has immediate, real-world impact
   Internet medical data influences the healthcare decisions of >50% of readers
   Many articles are read a million times per year
- Yet is has been consistently difficult to engage academics, experts and health professionals



# WHO WRITES WIKIPEDIA?

### Admins & Bureaucrats (600 active)

Peer exam and interview

Can mark pages as protected and block editors

Some niche privileges (e.g. delete pages, allow editing bots)

### Editors (30,000 active)

Access to Visual Editor

Persistent reputation

Able to edit protected pages

### - Anonymous users (⅓ of all edits)

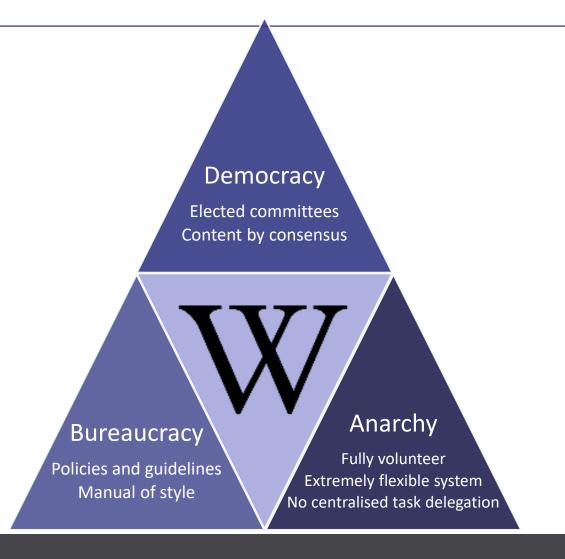
Text recognition test to prove human

Edits are marked with ip address

Can edit >99% of pages



# How is Wikipedia ruled?



# **OUTLINE**

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Connected projects and collaborations

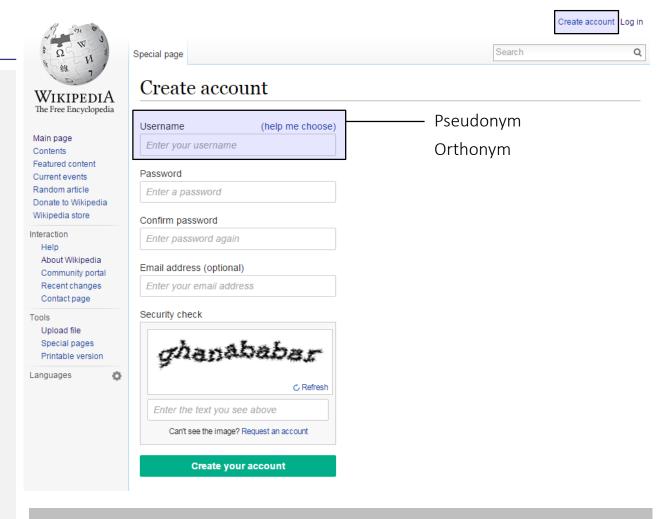
### The hidden world behind Wikipedia



- Help, community and resources



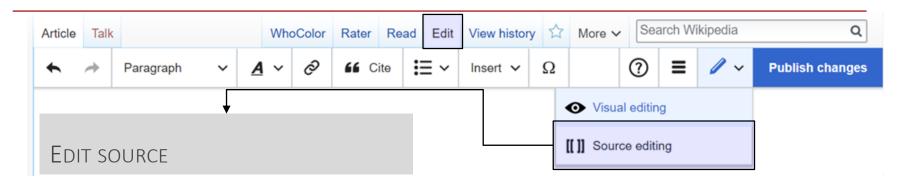
### SIGNING UP



TO TRY EDITING A BLANK TEST PAGE, SIGN UP AND CLICK "SANDBOX"



# THE TWO WAYS TO EDIT



- Scripting language ('Markup')
   Versatile with experience
- Very few things you actually need to know

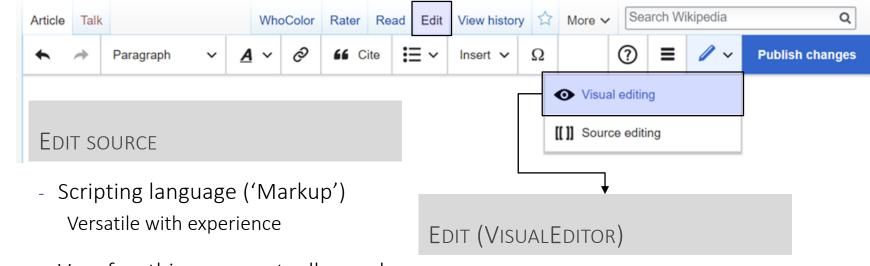
```
[[link]]  → link
[[link | other words]] → other words
''italic'' → italic
'''bold''' → bold
*bullet → bullet
==Heading== → Heading
===Subheading=== → Subheading
```

- References are tricky

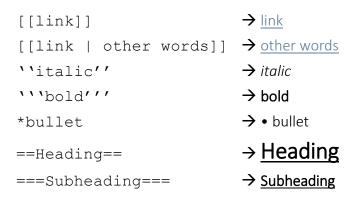
```
== Biological function ==
Enzymes serve a wide variety of [[function (biology)|functions]] inside
living organisms. They are indispensable for [[signal transduction]] and
cell regulation, often via [[kinase]]s and [[phosphatase]]s.<ref>{{cite
journal | yauthors = Hunter T | title = Protein kinases and phosphatases:
the yin and yang of protein phosphorylation and signaling | journal = Cell |
volume = 80 | issue = 2 | pages = 225-36 | date = January 1995 | <u>pmid</u> =
7834742 | doi = 10.1016/0092-8674(95)90405-0 }}</ref> They also generate
movement, with [[myosin]] hydrolyzing ATP to generate [[muscle contraction]]
and also moving cargo around the cell as part of the [[cytoskeleton]].<ref>
{{cite journal | vauthors = Berg JS, Powell BC, Cheney RE | title = A
millennial myosin census | journal = Molecular Biology of the Cell | volume
= 12 | issue = 4 | pages = 780-94 | date = April 2001 | pmid = 11294886
pmc = 32266 | doi = 10.1091/mbc.12.4.780 }}</ref> Other ATPases in the cell
membrane are [[ion pump (biology)|ion pumps]] involved in [[active
transport]]. Enzymes are also involved in more exotic functions, such as
[[luciferase]] generating light in [[firefly|fireflies]].<ref>{{cite journal
 vauthors = Meighen EA | title = Molecular biology of bacterial
bioluminescence | journal = Microbiological Reviews | volume = 55 | issue =
1 | pages = 123-42 | date = March 1991 | pmid = 2030669 | pmc = 372803 }}
```



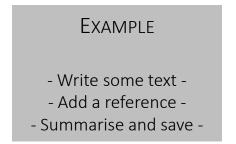
# THE TWO WAYS TO EDIT



 Very few things you actually need to know



Edit like word processing software
 More intuitive





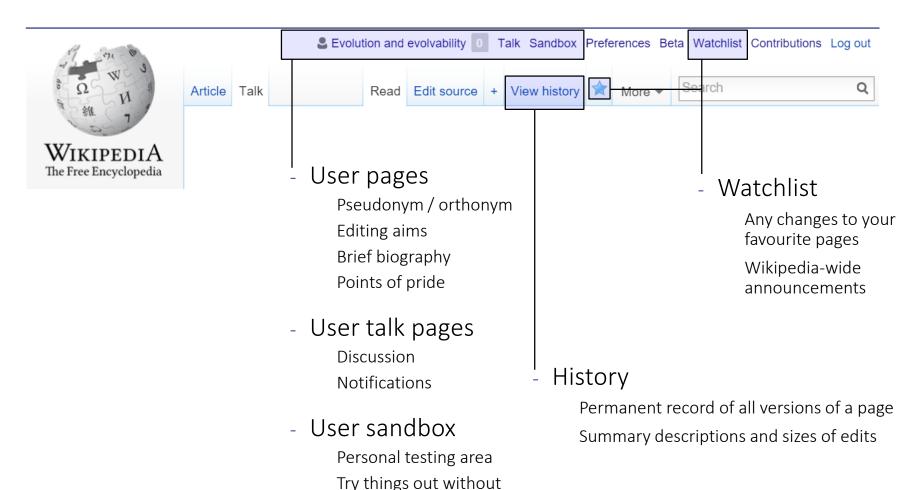
# TALK PAGES



- - Uncertain edits
  - Controversial edits
  - Suggested improvements
- Header banners
  - Page rating
  - Wikiproject
- Currently can't use VisualEditor
  - Need to use mark up text
  - ~~~~ → Signature



# USEFUL PERIPHERAL FEATURES



accidentally breaking articles



# CREATING A NEW ARTICLE

### Upload as Draft:XYZ

- Using "Articles for Creation" - - WP:AFC -



### Editor review

- Notability -
- Sufficient References -
  - Formatting -



### Moved to XYZ page

- Rating -
- Ongoing improvement -

### Wikipedia: Articles for creation

From Wikipedia, the free encyclopedia



### Welcome to Articles for Creation!



Welcome to Articles for Creation! If you don't have a Wikipedia user account, consider registering an account now so that you can create encyclopedia articles yourself. If you choose not to register, or you have a conflict of interest, but have an idea for a new article and some references, you can create one here and it will be reviewed and considered for publication. If you have an idea for the title of an article, but no content for the article itself, please make a request at Wikipedia:Requested articles. If you already have a Wikipedia user account, you can also use the Article Wizard to help you create your article. To nominate an existing draft or user sandbox for review at Articles for Creation, add the code {{subst:submit}} to the top of the draft or sandbox page.

Note that if you are being paid to contribute to Wikipedia, under the Terms of Use and WP:Paid, you must disclose your employer, client and affiliations. If you have another type of conflict of interest, you should disclose the conflict of interest, per WP:COI.

Bona fide reviewers at Articles for Creation will **never** contact or solicit anyone for payment to get a draft into article space, improve a draft, or restore a deleted article. If someone contacts you with such an offer, please post on Wikipedia:WikiProject Articles for creation/Help desk.

Click here to create an article now!

https://en.wikipedia.org/wiki/Wikipedia:Articles for creation WP:AFC



# COPYRIGHT

# © creative commons

- Be careful not to violate copyright when adding to Wikipedia

Plagiarism detectors monitor all edits (TurnItIn)

- All text is under the Creative Commons licence

**Share** copy and redistribute the material in any medium or format

Adapt remix, transform, and build upon the material for any purpose (even commercial)

Attribute credit must be given (link to the license, and indicate any changes)

Share alike if you do reuse this information, it must be distributed under the same license

Images are also Creative Commons by default

**Optionally** Remove share alike requirement

Remove all requirements (full public domain)

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### PART OF THE WIDER KNOWLEDGE ECOSYSTEM



- Connected projects and collaborations

### The hidden world behind Wikipedia



- Help, community and resources



### SIMILARITIES TO ACADEMIC WRITING

- Neutral point of view [[WP:NPOV]]

  Balanced information
- Cite reliable, verifiable sources [[WP:RS]] [[WP:VER]]
- Avoid plagiarism [[WP:PLAG]]
   Several detection bots search for instances
   Don't accidentally copyvio yourself!
- Short lead abstract [[WP:LEAD]]
- Permanent record
- Open-access mentality [[WP:FIVEPILLARS]]
- Post-publication peer review (of a sort)

  Continuous editing and improvement by other authors

  Organised peer review for 'Good Article' or 'Featured Article' status [[WP:GA]], [[WP:FA]]



# A BRIEF SIDENOTE ON SHORTCUTS [[WP:CUTS]]

- WP:XYZ links shortcut to various 'behind the scenes' pages

**Policies** 

Tools

Community pages

Wikiprojects



Nominated <u>article for deletion</u> due to <u>original research</u> and <u>lack</u> <u>of notability</u>; in addition, it does not appear to be possible to <u>verify the accuracy of the sources</u>, as the article contains only references that are contained in unpublished manuscripts.



# DIFFERENCES TO ACADEMIC WRITING





# DIFFERENCES (CONTENT & FORMAT)

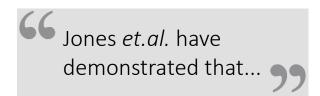
- General audience! [[WP:TECHNICAL]]
  - Everything should be understandable to a undergraduate

    The first paragraph should be understandable to a secondary school pupil
- Wikilink to key relevant topics [[WP:LINK]]
- Writing style [[WP:MOS]]

No referencing images, they should stand alone
Minimise name-dropping
Date-relevant statements become out of date quickly
Avoid review-style colloquialisms











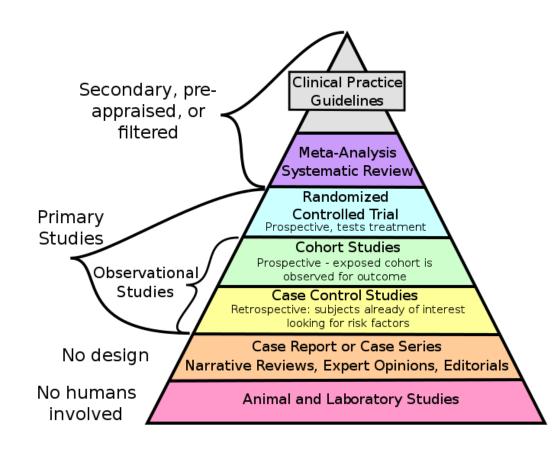
# DIFFERENCES (REFERENCES & QUALITY)

 Secondary sources are preferred

[[WP:SCIRS]] [[WP:MEDRS]]

Especially for medical statements Compromise: cite both secondary and primary research

- No original research [[WP:NOR]]
   Including synthesis of information
   Can only summarise published work
- Constant post-publication review and update [[WP:WIP]]





# DIFFERENCES (PEERS & COLLABORATION)

- No ownership [[<u>wp:own</u>]]

There's no official lead or corresponding author

- Everyone's equal [[WP:FIVEPILLARS]], [[WP:BE BOLD]]

You may sometimes need to explain your edits to people with less knowledge then you Editors don't have to be experts on the topic or on Wikipedia editing

The average edit is more helpful than harmful

Notability [[<u>WP:NOTE</u>]]

Academic biographies must be particularly so [[WP:PROF]]

- Disagreements [[WP:DISPUTE]]

Article's talk page

Dispute resolution mediation request [[WP:DRR]]

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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

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

# WIKIVERSITY



- Open courses, targeted to any education level
- Formatted as teaching resources
- Flexible organisation structure
- Example: "What We Wish They Knew: 13 Reasons Why"

  Organised epis-de-by-episode and theme-by-theme

  Information directory
- Example: "Dealing With a School Shooting"

  Written for caregivers, professionals and members of the public 4-week process, questions, resources

# 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

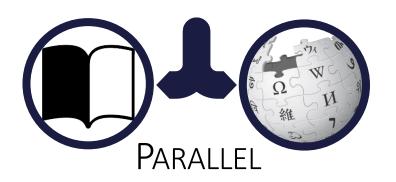


RNA Biology





Wikipedia first



**PLOS** 

**WIKIJOURNAL** 





# ACADEMIC AND WIKIPEDIC VERSIONS

\$ Evolution and evolvability □ 0 □ Talk Sandbox Preferences Beta Watchlist Contributions Log out OPEN & ACCESS Freely available online Read Edit source Edit View history ☆ More ▼ Search Circular permutation in proteins Circular Permutation in Proteins WikipediA From Wikipedia, the free encyclopedia Spencer Bliven1\*, Andreas Prlić2\* 1 Bioinformatics Program, University of California, San Diego, La Jolla, California, United States of America, 2 San Diego Supercomputer Center, University of California San Contents A circular permutation is a relationship between proteins whereby the proteins have a changed order of amino acids in their peptide Diego, La Jolla, California, United States of America Featured content sequence. The result is a protein structure with different connectivity, but overall similar three-dimensional (3D) shape. In 1979, the first Current events pair of circularly permuted proteins - concanavalin A and lectin - were discovered; over 2000 such proteins are now known permuted variants of cyclic wild-type proteins [10]. SISYPHUS is This is a "Topic Page" article for PLoS Computational Biology. Random article a database that contains a collection of hand-curated manual Circular permutation can occur as the result of evolutionary events, posttranslational modifications, or artificially engineered mutations. Donate to Wkipedia alignments of proteins with non-trivial relationships, several of Circular permutation describes a type of relationship Wikipedia store The two main models proposed to explain the evolution of circularly permuted proteins are permutation by duplication and fission and between proteins, whereby the proteins have a changed order of which have circular permutations [11]. fusion. Permutation by duplication occurs when a gene undergoes duplication to form a tandem repeat, before redundant sections of Interaction amino acids in their protein sequence, such that the sequence of the protein are removed: this relationship is found between saposin and swaposin. Fission and fusion occurs when partial proteins fuse the first portion of one protein (adiacent to the N-terminus) is About Wikingdia to form a single polypeptide, such as in nicotinamide nucleotide transhydrogenases related to that of the second portion of the other protein (near its There are two main models that are currently being used to Community portal C-terminus), and vice versa (see Figure 1). This is directly Circular permutations are routinely engineered in the laboratory to improve their catalytic activity or thermostability, or to investigate explain the evolution of circularly permuted proteins: permutation by Recent changes analogous to the mathematical notion of a cyclic permutation properties of the original protein. duplication and fission and fusion. The two models have compelling Contact page over the set of residues in a protein examples supporting them, but the relative contribution of each Circular permutation can be the result of evolutionary events. Traditional algorithms for sequence alignment and structure alignment are not able to detect circular permutations between proteins. model in evolution is still under debate [12]. Other, less common, Schematic representation of a post-translational modifications, or artificially engineered muta-What links here New non-linear approaches have been developed that overcome this and are able to detect topology-independent similarities. mechanisms have been proposed, such as "cut and paste" [13] or ircular permutation in two proteins. tions. The result is a protein structure with different connectivity, Related changes The first protein (outer circle) has the but overall similar three-dimensional (3D) shape. The homology Upload file Contents [hide] between portions of the proteins can be established by observing Special pages the second protein (inner circle) has 1 History similar sequences between N- and C-terminal portions of the two the sequence c-a-b. The letters N and 2 Evolution C indicate the location of the amino-References [edit source] 2.1 Permutation by duplication sequences and how their positions change relative to each other. Transhydrogenases The 2012 version of this article has passed academic ses that can lead to circular permutations peer review (here), has been published in PLOS ons in protein engineering armutations Computational Biology and can be cited as: Bliven S, Prlić A (2012). "Circular permutation in

1. ^ a b c Cunningham BA, Hemperly JJ, Hopp TP, Edelman GM (July 1979). "Favin versus concanavalin A: Circularly permuted amino acid sequences" & . Proceedings of the National Academy of Sciences of the United States of America. 76 (7): 3218-22. doi:10.1073/pnas.76.7.3218 g. PMC 383795 A. PMID 16592676 g.

doi:10.1371/journal.pcbi.1002445. PMC

PMID 22496628.

proteins". PLOS Computational Biology. 8 (3): e1002445.

2. \* Einspahr H, Parks EH, Suguna K, Subramanian E, Suddath FL (December 1986). "The crystal structure of pea lectin at 3.0-A resolution". The Journal of Biological Chemistry. 261

the first instance of a circularly permuted protein in nature.[1] After determining the peptide sequence of the lectin protein favin, they r Niced its similarity to a known protein - concanavalin A - except that atation between the pair[2] and showed that concanavalin A is

a way to emulate this process. In 1983, David a protein by chemically ligating the termini to Luger and her colleagues introduced a ethod allowed for permutations to

a class of proteins fied a circularly



circular permutation. Concanavalin A (left), from the Protein Data Bank (PDB: 3cna), and peanut lectin (right) from PDB: 2pel, which is homologous to favin. The termini of the proteins are highlighted by blue and green is indicated by the gradient from blue N-terminus) to green (C-terminus). The 3D fold of the two proteins is highly similar; however, the N- and Cini are located on different ons of the protein.[1]

# INTERNATIONAL PROJECTS

### - WikiEdu

Wikipedia editing as part of assessed student coursework Used in psychology courses at dozens of US universities e.g. UCLA, Uni North Carolina, Uni Michigan, FIU

### - WikiJournals

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

- ORCID integration
- WikiCite

# 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)

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### COMMUNITY

- General community portal [[WP:COM]]

Help, suggestions, news

- Regional Wikimedia Chapters meta.wikimedia.org/wiki/Affiliates
- Wikiprojects [[WP:WPDIR]]

Psychology

Medicine

Sociology

Neurobiology

Women's Health

LGBT studies

Death

# WIKIPROJECT PSYCHOLOGY [[WP:PSY]]



About this WikiProject

edit | watch

About the subject area

edit | watch

This is a community dedicated to improving Wikipedia's coverage of psychology, psychological theories, psychological research and psychotherapy. Its broad goals are:

- 1. To assess psychology-related articles and tag them appropriately when there are problems.
- 2. To remove vandalism, original research and spam.
- To ensure that articles are based on independent reliable secondary sources.
- 4. To represent scientific controversies and scientific consensus fairly, writing articles in a neutral style.
- 5. To improve and review articles to Good Article and Featured Article quality.
- 6. To create a friendly and supportive atmosphere for editors who want to contribute.
- 7. To inform the community about issues that need discussion.

Participants are encouraged to be bold in enforcing Wikipedia's policies across the relevant articles.

As part of Wikipedia's Year of Science, participants are encouraged to take part in the PSYCH+Feminism initiative to improve the number and quality of psychology articles about prominent women in psychology.

**Psychology** is an academic and applied discipline that involves the scientific study of human and nonhuman animal mental functions and behaviors. In this field, a professional practitioner or researcher is called a psychologist. Psychologists are classified as social or behavioral scientists. Psychologists attempt to understand the role of mental functions in individual and social behavior, while also exploring underlying physiological and neurological processes.

Basic research in psychology includes perception, cognition, attention, emotion, motivation, brain functioning, personality, behavior, and interpersonal relationships. Some, especially depth psychologists, also consider the unconscious mind. Psychologists employ empirical methods to determine causal and correlational relationships between psychosocial variables. In addition, or in opposition, to employing empirical and deductive methods, clinical psychologists sometimes rely upon symbolic interpretation and other inductive techniques.

More on Psychology...





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#### Interaction

#### Help

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#### Tools

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#### Print/export

Create a book

Download as PDF

Printable version

### FURTHER HELP

- Interactive help (scarily fast response times)

Teahouse for new editors [[WP:TH]]
Helpdesk for experienced editors [[WP:HD]]

- Tutorials

General tutorial [[Help:Intro]]

- Academic-specific advice

Ten simple rules for editing Wikipedia - Logan et. al. (2010) Plos Comp. Bio.

- This presentation is freely available online

https://en.wikipedia.org/wiki/File:Wikipedia Workshop.pdf

Just search "File:Wikipedia Workshop.pdf"

### 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"

WikiProject Medicine Search "WP:MED"

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

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# WHO WRITES WIKIPEDIA?

#### Wikimedia Foundation

- Wikimedia foundation
- Wikimedia Board of Trustees
- Wikimedia staff

May assist with disputes

#### **Elected committees**

- Arbitration Committee
- Mediation Committee
- Stewards
- Bureaucrats
- Admins

Hosts and administers ecosystem

Dispute resolution

### **Technical**

- Wikimedia tech staff
- Template makers
- Instructional content writers

Builds and improves infrastructure

#### Content creators

- New article creation
- Article improvement

Dispute resolution about viewpoint pushing

Builds and improves Article curators

infrastructure

Improve articles once created

Degrade articles

New Page PatrolRecent Changes Patrol

- Copyeditors
- Spellcheckers
- Taggers
- Vandalism reverters
- Articles for deletion (AfD)
- Bots

Revert vandalism

### Article disruptors

- Vandals
- Hoaxers
- Spammers
- Viewpoint pushers
- "Article Owners"



# A WIKIJOURNAL'S PUBLISHING FLOW

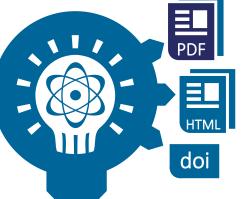
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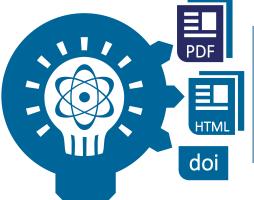
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