

Wikipedia for Fame and Fortune

Kieran O'Neill

8 February 2018

Introduction

Copyright and Open Access

Uploading images to Wikipedia

Taking Your Assignment Further

Introduction

Talk logistics

We have lots of time, please put your hand up with questions!

What I'll talk about today

- ▶ Copyright and Open Access
- ▶ Uploading images to Wikipedia
- ▶ Using your assignment to gain money and fame

Slides

You can get these slides at:

https://github.com/oneillkza/MedG505_Wikipedia

I'll also ask your course assistant to email you a copy.

Where I'm coming from

- ▶ Bioinformatics post-doc in the Karsan lab at BC Cancer
- ▶ Graduate of UBC Bioinformatics program
- ▶ Wikipedia contributor since 2004
 - ▶ Over 2.6K edits on a wide variety of topics
 - ▶ Author of six “did you know?” front page articles
 - ▶ Co-first author of a PLoS-CB topic page
- ▶ Involved in the International Society for Computational Biology / Wikipedia collaboration

Bioinformatics, 33(15), 2017, 2429–2430

doi: 10.1093/bioinformatics/btx388

Advance Access Publication Date: 19 June 2017

Message from the ISCB



The International Society for Computational Biology and WikiProject Computational Biology: celebrating 10 years of collaboration towards open access

Kieran O'Neill^{1,2,*}, Vivek Rai³ and Alastair M. Kilpatrick⁴

1

Copyright and Open Access

Why am I teaching you about copyright and open access?

1. Wikipedia is open access and takes copyright very (very) seriously. By understanding copyright and open access, you can reduce your risk of delays in getting your work up (right before the deadline).
2. Many scientific journals (and other sources) have open access licenses compatible with Wikipedia. By understanding open access licenses, you can save time by reusing or adapting figures and data from journals in your assignment article.

Copyright ©

- ▶ When you create an image, piece of text, or other “work”, it is instantaneously copyrighted to you (©)
- ▶ This means nobody may reproduce it without your permission
 - ▶ No putting it anywhere on the internet without asking (social media, website, Wikipedia, etc)
 - ▶ Some exceptions for fair use, e.g. academic uses, commentary, parody

Upside

- ▶ Copyright allows people who create content to be paid for their work.
(e.g. musicians, artists, film makers)

Downside

- ▶ Copyright creates barriers to the sharing of information.
(e.g. scientific data, knowledge)

Open access (and open source) licenses

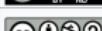
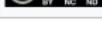
Some of us believe that allowing people to use our work for no cost (gratis) and in the way they like (libre) is good for science (and the world).

- ▶ e.g. within the scientific community, we have public databases, open access journals and open source software.
- ▶ Also Wikipedia
- ▶ All of these use open access (or open source) "licenses".

An open access license allows a creator to pre-emptively grant permission to everybody to use their work.

- ▶ That removes the barrier of having to find you and ask you.
- ▶ Which makes the sharing of knowledge easier and more free.

Some open access licenses

| Icon | Description | Acronym | Allows <u>Remix culture</u> | Allows commercial use | Allows <u>Free Cultural Works</u> | Meets ' <u>Open Definition</u> ' |
|---|---|----------|-----------------------------|-----------------------|-----------------------------------|----------------------------------|
|  | Freeing content globally without restrictions | CC0 | Yes | Yes | Yes | Yes |
|  | Attribution alone | BY | Yes | Yes | Yes | Yes |
|  | Attribution + ShareAlike | BY-SA | Yes | Yes | Yes | Yes |
|  | Attribution + Noncommercial | BY-NC | Yes | No | No | No |
|  | Attribution + NoDerivatives | BY-ND | No | Yes | No | No |
|  | Attribution + Noncommercial + ShareAlike | BY-NC-SA | Yes | No | No | No |
|  | Attribution + Noncommercial + NoDerivatives | BY-NC-ND | No | No | No | No |

2

Anything from CC-BY-SA up is compatible with Wikipedia

How this impacts your assignment

Keep Wikipedia happy

- ▶ The Wikipedia article you write will be released under a CC-BY-SA license.
- ▶ Make sure everything you submit to Wikipedia is license-compatible.
 - ▶ If it's a figure you created, make sure to license it CC-BY-SA (or similar)
 - ▶ If you got it from somewhere else, find the license and check the table on the last slide

Save yourself time

- ▶ You can re-use figures from open access journal articles
- ▶ You can also adapt figures from open access papers.
- ▶ Check the license: CC-BY or similar is OK; CC-BY-NC is not

Open access journals where you can find free figures

Almost always Wikipedia-compatible



Some articles Wikipedia-compatible



Recap: copyright and open access

- ▶ Copyright happens by default, and creates barriers to sharing knowledge.
- ▶ Open access licenses allow content to be freely shared.
- ▶ Not all open access licenses are compatible with each other (or Wikipedia)
 - ▶ Content under the wrong license gets deleted from Wikipedia with extreme prejudice.
 - ▶ Check the license on any content you want to use.
- ▶ There is a lot of good open access content out there which you **can** use in your article.

Uploading images to Wikipedia

Why am I teaching you how to upload to Wikipedia?

- ▶ The Wikipedia uploading system is Byzantine.
- ▶ In past years of this course, the number one issue has been students unable to upload figures the night before the deadline.
- ▶ I am hoping to reduce your stress around this process.

Wikipedia vs Wikimedia Commons

- ▶ Both fall under the umbrella of the Wikimedia Foundation
- ▶ Wikipedia is the encyclopedia.
- ▶ Wikimedia Commons is a repository of open access images.



3

Why this matters

- ▶ Wikipedia allows uploads directly, and has its own upload wizard.
- ▶ But Wikipedia has special rules for fair use of non-free content.
 - ▶ In general this is bad and should be avoided.
 - ▶ Definitely avoid if you don't know exactly what you're doing!
- ▶ It is much better to upload your images to Wikimedia Commons.
- ▶ They will be immediately visible, and you can use them directly in your Wikipedia article.

³Wikimedia Foundation. Used under CC-BY-SA

Wikipedia upload dialogue (don't use!)

S Kieran Talk Sandbox Preferences Beta Watchlist Contributions Log out

Project page Talk Read View source View history Search Wikipedia

Wikipedia:File Upload Wizard

From Wikipedia, the free encyclopedia

Welcome to the File Upload Wizard. This page is for uploading images and other media files to Wikipedia. When you click the link below, the wizard will guide you through a questionnaire prompting you for the appropriate copyright and sourcing information for each file. Please ensure you understand [copyright](#) and the [image use policy](#) before proceeding.

Click here to start the Upload Wizard

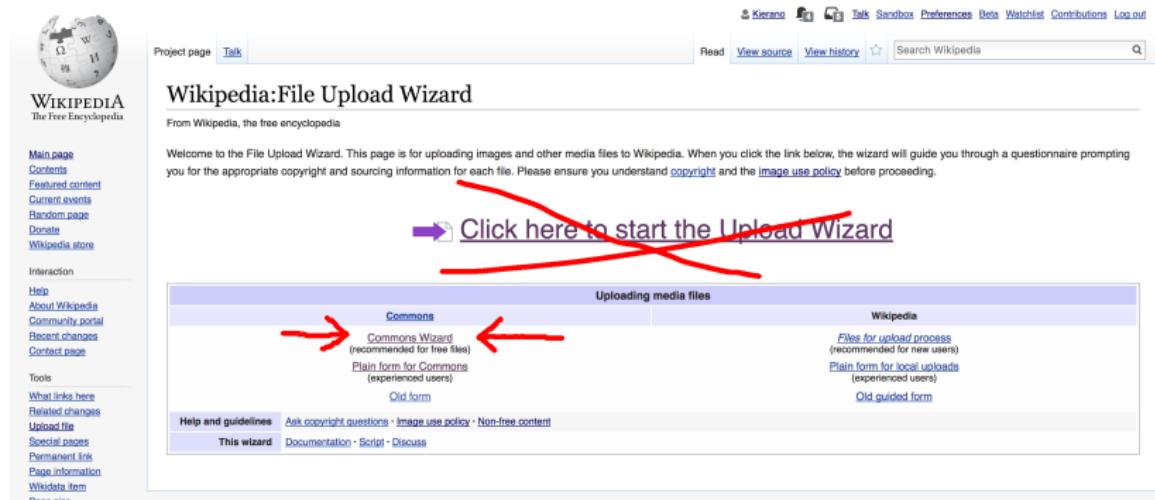
Commons
Commons Wizard
(recommended for free files)
Plain form for Commons
(experienced users)
Old form

Uploading media files

Wikipedia
Files for upload process
(recommended for new users)
Plain form for local uploads
(experienced users)
Old guided form

Help and guidelines Ask copyright questions · [Image use policy](#) · Non-free content

This wizard Documentation · Script · Discuss



Commons upload dialogue

Secure | <https://commons.wikimedia.org/wiki/Special:UploadWizard>

 **NOTE** ← Special page

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Please visit [Commons:Help desk](#) if you need to ask questions about uploading files.

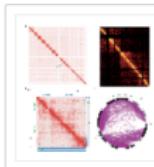
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13059_2017_1161_Fig1_HTML.gif

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1 of 1 file uploaded

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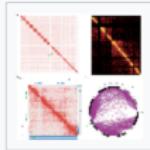
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Use



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Source *

ⓘ

<https://genomebiology.biomedcentral.com/articles/10.1186/s13059-017-1161-y>

Author(s) *

ⓘ

Galip Gürkan Yardımcı and William Stafford Noble

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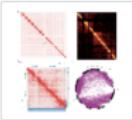
Describe the image

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Title * ⓘ

Description * ⓘ

Remove

Heat map and circular plot visualization of Hi-C data. a Hi-C interactions among all chromosomes from G401 human kidney cells, as plotted by mySC. The green arrow points to aberrant interchromosomal signal in the Hi-C matrix, possibly caused by a rearrangement event. b Heat map visualization illustrating the bipartite structure of the mouse X chromosome, as plotted by Hi-Browse, using in-situ DNase Hi-C data. c Heat map visualization of a 3 Mbp locus (chr4:18000000-21000000) reveals the presence of loops that coincide with CTCF binding sites, validated by CTCF peaks shown on the top and left of the heat map. Computationally predicted loops are displayed.

[Add a description in another language](#)

Date work was created or first published * ⓘ

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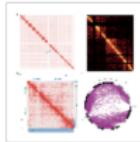
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Describe

Use

Thanks for uploading!

You can now use these files on wikis, or link to them on the web.



To use the file in a wiki, copy this text into a page:

`[[File:Hi_c_visualization.gif|thumb|Heat map and circular plot visualization of Hi-C data. a Hi-C interactions among`

To link to it in HTML, copy this URL:

`https://commons.wikimedia.org/wiki/File:Hi_c_visualization.gif`

[Hi_c_visualization.gif](#)

[Go to wiki home page](#)

[Upload more files](#)

Use your image in Wikipedia

B I Advanced Special characters Help Cite

Templates Named references Error check

--Data analysis--

[!File:Hi c visualization.gif|thumb|Heat map and circular plot visualization of Hi-C data. a. Hi-C interactions among all chromosomes from G401 human kidney cells, as plotted by the mySC software. <{{cite journal|last1=Lajoie|first1=Bryan R|last2=van Berkum|first2=Wykne L|last3=Sanyal|first3=Amartya|last4=Dekker|first4=Job|title=MySC: web tools for chromosome conformation capture studies|journal=Nature Methods|date=1 October 2009|volume=6|issue=10|pages=690–691|doi=doi:10.1038/nmeth.1009-690}> b. Heat map visualization illustrating the bipartite structure of the mouse X chromosome, as plotted by Hi-Browse. <{{cite journal|last1=Deng|first1=Joel B.|last2=Ma|first2=Wenxian|last3=Ramani|first3=Vijay|last4=Hill|first4=Andrew|last5=Yang|first5=Fan|last6=Ay|first6=Herhat|last7=Borleth|first7=Carl Anthony|last8=Shendure|first8=Jay|last9=Duan|first10=Zhijun|last11=Noble|first11=William S.|last12=Distefano|first12=Christine M.|title=Bipartite structure of the inactive mouse X chromosome|journal=Genome Biology|date=7 August 2015|volume=16|issue=1|doi=10.1186/s13059-015-0728-8}> c. Heat map visualization of a 3 Mbp locus (`chr4:18000000-21000000`), produced by Juicexbox, using in-situ Hi-C data from the GM12878 cell line. <{{cite journal|last1=Rao|first1=Suhas S.P.|last2=Huntley|first2=Miriam H.|last3=Durand|first3=Neva C.|last4=Stamenova|first4=Elena K.|last5=Bochkov|first5=Ivan D.|last6=Robinson|first6=James T.|last7=Sanderson|first7=Adrian L.|last8=Machol|first8=Ido|last9=Omer|first9=Arina D.|last10=Lander|first10=Eric S.|last11=Aide n|first12=Kreg Lieberman|title=A 3D Map of the Human Genome at Kilobase Resolution Reveals Principles of Chromatin Looping|journal=Cell|date=December 2014|volume=159|issue=7|pages=1665–1680|doi=10.1016/j.cell.2014.11.021}> d. Circular plot of the bipartite mouse X chromosome, generated by the Epigenome Browser. <{{cite journal|last1=Zhou|first1=Xin|last2=London|first2=Rebecca F|last3=Li|first3=Daofeng|last4=Lawson|first4=Heather A|last5=Madden|first5=Famelia A F|last6=Costello|first6=Joseph F|last7=Wang|first7=Ting|title=Exploring long-range genome interactions using the WashU Epigenome Browser|journal=Nature Methods|date=29 April 2013|volume=10|issue=5|pages=375–376|doi=doi:10.1038/nmeth.2440}> Image from <{{cite journal|last1=Yardimci|first1=Galip Gürkan|last2=Noble|first2=William Stafford|title=Software tools for visualizing Hi-C data|journal=Genome Biology|date=3 February 2017|volume=18|issue=1|doi=10.1186/s13059-017-1161-y}>]]

The different 3C-style experiments produce data with very different structures and statistical properties. As such, specific analysis packages exist for each experiment type. <{{cite journal|last1=Schmitt|first1=AD|last2=Hu|first2=M|last3=Ren|first3=B|title=Genome-wide mapping and analysis of chromosome architecture|journal=Nature Reviews Molecular Cell Biology|date=December 2016|volume=17|issue=12|pages=743–755|doi=10.1038/nrm.2016.104|pmid=27580841}>

Insert Cite your sources: [ref](#) [/ref](#)

Use your image in Wikipedia

4 Data analysis [edit]

The different 3C-style experiments produce data with very different structures and statistical properties. As such, specific analysis packages exist for each experiment type.^[6]

Hi-C data is often used to analyze genome-wide chromatin organization, such as [topologically associating domains](#) (TADs), linearly contiguous regions of the genome that are associated in 3-D space.^[45] Several algorithms have been developed to identify TADs from Hi-C data.^{[4] [82]}

Hi-C and its subsequent analyses are evolving. Fit-Hi-C^[5] is a method based on a discrete binning approach with modifications of adding distance of interaction (initial spline fitting, aka spline-1) and refining the null model (spline-2). The result of Fit-Hi-C is a list of pairwise intra-chromosomal interactions with their p-values and q-values. JuiceBox^[83] is a Hi-C data visualization tool written in Java.

The 3-D organization of the genome can also be analyzed via [eigendecomposition](#) of the contact matrix. Each eigenvector corresponds to a set of loci, which are not necessarily linearly contiguous, that share structural features.^[64]

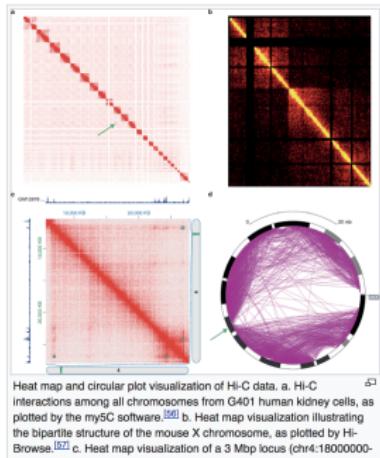
A significant confounding factor in 3C technologies is the frequent non-specific interactions between genomic loci that occur due to random [polymer](#) behavior. An interaction between two loci must be confirmed as specific through statistical significance testing.^[3]

4.1 DNA motif analysis [edit]

[DNA motifs](#) are specific short DNA sequences, often 8-20 nucleotides in length^[65], which are statistically overrepresented in a set of sequences with a common biological function. Currently, regulatory motifs on the long-range chromatin interactions have not been studied extensively. Several studies have focused on elucidating the impact of DNA motifs in promoter-enhancer interactions.

Guo et al. has identified the orientation of two CTCF motifs in the promoter-enhancer border sequences is very crucial for targeting the right gene; the two CTCF motifs have to face to each other.^[86]

Bailey et al. has identified that ZNF143 motif in the promoter regions provides sequence specificity for promoter-enhancer



https://en.wikipedia.org/wiki/Chromosome_conformation_capture#Data_analysis

Recap: uploading to Wikipedia

- ▶ Use Wikimedia Commons, not Wikipedia.
- ▶ Practice uploading images that aren't your main assignment image before the deadline so it goes more smoothly
 - ▶ Find free images in journals.

Taking Your Assignment Further

More than just a grade

Things you can do with your article

- ▶ ISCB Wikipedia Competition 2018 (\$)
- ▶ DYK (be on the front page of Wikipedia for a day)

Getting more involved

- ▶ Wikiproject Computational Biology
- ▶ PLoS-CB / PLoS Genetics topic pages
- ▶ Editathon at ISMB

ISCB Wikipedia Competition 2018 (\$\$)

1 How to Enter [edit]

Deadline: 31st December 2018

For the first time, the competition will be run over the full calendar year: it will start on the 1st January 2018 and finish on the 31st December 2018. For each entry that is claimed in the competition, the difference in quality between these two dates will be reviewed. Contributions made before the 1st January or after the 31st December will not be counted.

As in previous years, there are two different competitions that you can enter. These are for (1) Wikipedia articles in any language, (2) [Wikidata contributions](#).

The prizes for the best [Wikipedia articles](#) in any language provided by the ISCB will be:

- 1st prize - \$500 (USD) and 1 year membership to the ISCB.
- 2nd prize - \$250 (USD) and 1 year membership to the ISCB.
- 3rd prize - \$150 (USD) and 1 year membership to the ISCB.

The prizes for the best [Wikidata contributions](#) provided by the ISCB will be:

- 1st prize - \$300 (USD) and 1 year membership to the ISCB.
- 2nd prize - \$150 (USD) and 1 year membership to the ISCB.

| Event | Date (in UTC) |
|---------------------------|--------------------------|
| Competition entries open | 1 January 2018 |
| Editing begins | 1 January 2018 |
| Competition ends | 31 December 2018 |
| ISCB Council shortlisting | February 2019 |
| Judging panel decision | March 2019 |
| Announcement of winners | July 2019 (at ISMB 2019) |

https://en.wikipedia.org/wiki/Wikipedia:WikiProject_Computational_Biology/ISCB_competition_announcement_2018

Did you know? (Be famous for a day!)

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Main page Talk

WIKIPEDIA The Free Encyclopedia

Main page Contents Featured content Current events Random page Donate Wikipedia store Interaction Help About Wikipedia Community portal Recent changes Contact page Tools What links here Related changes Upload file Special pages Permanent link Page information Wikipedia items Depravate DYK check Print/export Create a book Download as PDF Printable version

In other projects Wikipedia Commons Mathlinks Meta-Wiki Wikispecies Wikibooks Wikidata Wikinews Wikisource Wikiversity Wikivoyage

Welcome to Wikipedia.
the free encyclopedia that anyone can edit.
5,369,721 articles in English

1 From today's featured article

 In the [Guadalcanal Campaign](#) of the [Second World War](#), the [Allies](#) reversed the gains of Imperial Japan in the southwest Pacific. U.S. forces had inflicted heavy losses on the [Imperial Japanese Navy](#) at the [Battle of Midway](#) in June 1942, but Japan had remained on the offensive, pushing into the [Solomon Islands](#) from [Babau](#) and threatening supply lines to Australia and New Zealand. In August 1942, U.S. Marines landed on [Guadalcanal](#) in the southern Solomon Islands. The Japanese had occupied the islands since May, and were building an airfield (later named Henderson Field). The Allies overwhelmed the surprised Japanese defenders and captured the airfield. The Japanese attempted to retake it but were defeated in the [Naval Battle of Guadalcanal](#) in early November. They abandoned their campaign in December, and evacuated their remaining forces on 7 February 1943. The Allied victories on Guadalcanal, and in New Guinea, marked the transition from defensive operations to a series of offensives that culminated in the Japanese surrender in 1945. ([Full article...](#))

Part of the [Guadalcanal Campaign](#) series; one of Wikipedia's [featured topics](#).

Recently featured: [Olga Alexandrovna of Russia](#) • [White-breasted nuthatch](#) • [1998 NFC Championship Game](#)

Archive • By email • More featured articles

2 Did you know...

• ... that in Maori mythology, the severed tail of a [tameha](#) which fell at the base of the [Weinui Falls](#) (pictured) is thought to be responsible for staining the rocks downstream reddish-brown with its blood?

• ... that a "near-nut" broke out after [Cory Booker](#) cast the deciding vote to seat [Shaniqwe Speight](#) as a member of the Newark, New Jersey city council?

• ... that [HPv-2](#) is the second human [papillomavirus](#) ever discovered?

• ... that the [Easton Area Public Library](#) holds the original [Flag of Easton](#) that was flown in the town during the first public reading of the [Declaration of Independence](#)?

• ... that fourteen players have scored an [international hat-trick](#) for the Wales national football team?

• ... that [King Abdulla II](#) of Jordan, who claims to be a [41st-generation direct descendant of Muhammad](#), funded the restoration of the Church of the Holy Sepulchre in 2017?

• ... that [Stuart Mustow](#) recommended that [Birmingham City Council](#) lose responsibility for maintaining the city's [Inner Ring Road](#) due to construction defects?

• ... that despite director [John Frankenheimer](#)'s preference for the first ending he had shot for [Ronin](#), the test audience "hated it"?

Recent additions • Start a new article • Nominate an article

3 In the news

The [SpaceX](#) launch vehicle [Falcon Heavy](#) (pictured) makes its [maiden flight](#), carrying [Elon Musk's Tesla Roadster](#) as a dummy payload.

In American football, the [Philadelphia Eagles](#) defeat the [New England Patriots](#) in [Super Bowl LII](#).

Archaeologists announce the discovery using [LiDAR](#) of approximately [60,000 Mayan structures](#) in the [Maya Biosphere Reserve](#), Guatemala.

A total lunar [eclipse](#) occurs, close to [perigee](#) and also the [second full moon in a month](#), a coincidence of events not seen for 35 years.

A new genus of [ithyrotisan sauropod](#), [Mansourasaurus](#), is discovered in Egypt.

Recent deaths: [Joe Krakower](#) • [Jia Tsung-I](#) • [Margot Hulanda](#) • [Jockie Soerijadi](#)

Other recent events • Nominate an article

4 On this day...

February 2

• 1795 – The [Eleventh Amendment](#) to the [United States Constitution](#), limiting the ability of U.S. citizens and foreign nationals to sue U.S. states in [federal courts](#), was ratified in order to overrule the [Supreme Court](#) decision in [Chisholm v. Georgia](#).

• 1813 – Napoleonic Wars: Two evenly matched frigates from the [French Navy](#) and the [British Royal Navy](#) fought for four hours, causing significant damage, but resulting in a stalemate.

• 1907 – More than 3,000 women in London participated in the [Mud March](#), the first large procession organized by the [National Union of Women's Suffrage Societies](#), seeking [women's suffrage](#) in the United Kingdom.

• 1946 – [Neil Harvey](#) became the youngest [Australian](#) to score a century in [Test cricket](#).

• 1997 – Steve Jobs (pictured) returned to [Apple Inc.](#) as a consultant after the company purchased his startup [NeXT Software](#).

Births: [Hector Berlioz](#) (d. 1869) • [Desmond Doss](#) (b. 1919) • [Steve Nash](#) (b. 1974)

More anniversaries: [February 8](#) • [February 7](#) • [February 8](#)

Archive • By email • List of historical anniversaries



Did you know? (Be famous!)

2 Did you know...

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Wainui Falls

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Getting your article onto DYK

- ▶ Make sure you write your article in the Draft: space and only copy it when it's done.
- ▶ Nominate it for DYK within seven days of when you submit it.
- ▶ You need to write a catchy "Did you know that..." hook
- ▶ You will get a peer review of your nomination.
 - ▶ This may take a few weeks, so check back and/or watch your nomination page so you get notifications.
 - ▶ Address the reviewers comments promptly.
- ▶ Above all, read all the instructions carefully!

[https://en.wikipedia.org/wiki/Template_talk:
Did_you_know#Instructions_for_nominators](https://en.wikipedia.org/wiki/Template_talk:Did_you_know#Instructions_for_nominators)

And more: Wikiprojects

Wikipedia:WikiProject Computational Biology

From Wikipedia, the free encyclopedia

This is a [WikiProject](#), an area for focused collaboration among Wikipedians. New participants are welcome; please feel free to join!
[Guide to WikiProjects](#) • [Directory of WikiProjects](#)

Shortcuts
WP:COMBIO
WP:WCB



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WikiProject Computational Biology is aimed at improving and organising articles on [computational biology](#), [bioinformatics](#), [systems biology](#) and related topics. More broadly, the WikiProject aims to increase participation of computational biology researchers in English Wikipedia and other Wikimedia projects, as well as cultivate Wikipedia-related initiatives with academic publishers and learned societies.

WikiProject Genetics

A community for editors of — genetics · genomics · related fields



WikiProject
Page



Discussion
Page



Assessment
& Statistics

WP:GEN



Welcome to **WikiProject Genetics**! This project aims to organize improvement and maintenance of genetics articles on Wikipedia. If you would like to help, feel free to add yourself to the [list of participants](#). If you have any questions, concerns, or suggestions for the project, please visit the [project discussion page](#).

WikiProject Molecular and Cell Biology

A community for editors of — molecular biology · cell biology · developmental biology · microbiology · biochemistry



WikiProject
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Advice &
Resources



Assessment
& Statistics

WP:MCB



Featured Cell Biology Illustration by

Join (or start) an editathon at your favourite conference



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PLoS Computational Biology and PLoS Genetics topic pages

A topic page is a review article you write on a topic that is not well covered on Wikipedia

- ▶ Written as a Wikipedia article
- ▶ Goes through peer review and gets published as an actual review paper
- ▶ Then gets posted to Wikipedia
- ▶ This is a great way to get a review paper under your belt
- ▶ You can also use this material in your thesis introduction

More information at <http://collections.plos.org/topic-pages>
2/11 topic pages have come from UBC!

Recap: Taking your article further

- ▶ ***Enter the ISCB-Wikipedia competition*** to stand a (good) chance of winning cash!
- ▶ ***Nominate your article for DYK*** to have your work on the front page of one of the most trafficked websites on the internet.
- ▶ ***Join a WikiProject*** to stay involved.
- ▶ ***Write a topic page*** to get an easy review article and save time on thesis writing.
- ▶ ***Join (or start) an editathon*** at your favourite conference.

Reminder: slides are online

https://github.com/oneillkza/MedG505_Wikipedia