

Wiki

Web 2.0 technologies (e.g., [blogs](#), [social networks](#), and [wikis](#)) are increasingly being used by medical schools and postgraduate training programs as [tools](#) for information dissemination. These technologies offer the unique opportunity to track [metrics](#) of user [engagement](#) and interaction.

Wiki History in Medicine

2003

Wikipedia concept, which has developed as a result of the open-source software model using free (wiki) software (www.wikipedia.org/wiki/Medicine). The essential features are a revision control system, unrestricted editing of articles on the wiki by any registered member, unrestricted membership of the wiki, and the ability to fork articles (or see current versions at the same time). In addition, no copies are deleted and the newer versions of an article comprise the original article with all additions made cumulatively. ¹⁾

2005

The Medical Informatics communities should consider a more systematic use of these techniques for disseminating knowledge about the specialty for the public as well as for internal and educational purposes ²⁾.

Maier et al. developed WikiGene, a Wiki-based curation tool that allows revision of the data by expert users over the Internet. LitMiner (<http://andromeda.gsf.de/litminer>) and WikiGene (<http://andromeda.gsf.de/wiki>) can be used unrestricted with any Internet browser ³⁾.

These tools enable the team members to share knowledge simply and quickly-the collective knowledge base of the group can be efficiently managed and navigated ⁴⁾.

BioLingua is an interactive, web-based programming environment that enables biologists to analyze biological systems by combining knowledge and data through direct end-user programming ⁵⁾.

Do your students wiki? ⁶⁾.

Wiki's wild world ⁷⁾.

Internet encyclopaedias go head to head ⁸⁾.

2006

The server (<http://2dx.org>) provides the electron crystallography community with a central information exchange platform, which is structured in blog and Wiki form, allowing visitors to add comments or discussions. It currently offers a detailed step-by-step introduction to image processing with the MRC software program. The server is also a repository for the 2dx software package, a user-friendly image processing system for 2D membrane protein crystals ⁹⁾.

The gene finding server is accessible via https://www.cebitec.uni-bielefeld.de/groups/brf/software/reganor/cgi-bin/reganor_upload.cgi. The server software is available with the GenDB genome annotation system (version 2.2.1 onwards) under the GNU general public license. The software can be downloaded from <https://sourceforge.net/projects/genodb/>. More information on installing GenDB and REGANOR and the system requirements can be found on the GenDB project page <http://www.cebitec.uni-bielefeld.de/groups/brf/software/wiki/GenDBWiki/AdministratorDocumentation/GenDBInstallation> ¹⁰⁾.

Wiki and other ways to share learning online ¹¹⁾.

Gene and protein nomenclature in public databases ¹²⁾.

Wiki ware could harness the Internet for science ¹³⁾.

Gene-function wiki would let biologists pool worldwide resources ¹⁴⁾.

2007

Desai et al. described the pilot use of an enterprise wiki solution to facilitate group communication, secure file sharing, and collaborative writing within a pediatric hospital and research center. We discuss the choice of software, examples of use, and initial user feedback. We conclude that a wiki is a low-cost and high-yield approach to enhance research collaboration ¹⁵⁾.

Catalyzing chemical bonding-the WIKI way ¹⁶⁾.

TABASCO: A single molecule, base-pair resolved gene expression simulator ¹⁷⁾.

Mass spectrometry and Web 2.0 ¹⁸⁾

Stochastic simulation GUI for biochemical networks ¹⁹⁾.

BioPP: a tool for web-publication of biological networks ²⁰⁾.

Globus MEDICUS - federation of DICOM medical imaging devices into healthcare Grids ²¹⁾.

Other riffs on cooperation are already showing how well a wiki could work ²²⁾.

Key biology databases go wiki ²³⁾.

Legal pathways for cross-border research: building a legal platform for biomedical academia ²⁴⁾.

Genome re-annotation: a wiki solution? ²⁵⁾.

SNP2NMD: a database of human single nucleotide polymorphisms causing nonsense-mediated mRNA decay ²⁶⁾.

2008

An explorative learning approach to teaching clinical anatomy using student generated content ²⁷⁾.

Balancing entrepreneurship and business practices for e-collaboration: responsible information sharing in academic research ²⁸⁾.

The RNA WikiProject: community annotation of RNA families ²⁹⁾.

Using a wiki to meet graduate nursing education competencies in collaboration and community health ³⁰⁾.

Putting wikis to work in libraries ³¹⁾.

Search extension transforms Wiki into a relational system: a case for flavonoid metabolite database ³²⁾.

Big data: open-source format needed to aid wiki collaboration ³³⁾.

A new, dynamic resource for both students and teachers of family medicine: the Family Medicine Research wiki at FMDRL ³⁴⁾.

TRANSDAB Wiki database ³⁵⁾.

A wiki for the life sciences where authorship matters ³⁶⁾.

BioJava: an open-source framework for bioinformatics ³⁷⁾.

The medical matters wiki: building a library Web site 2.0 ³⁸⁾.

Orthochina.org: case-based orthopaedic Wiki project in China ³⁹⁾.

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Wiki is a [web page](#) whose content can be edited in real-time using a [web browser](#).

Wiki technology offers a number of potential benefits for administrators, students and instructors, including the ability to share information online, to construct [knowledge](#) together, to facilitate [collaboration](#) and to enable social learning and peer feedback.

Rasmussen et al. believed that with proper planning and instructional design, wiki technology can be usefully employed in medical education. They intended to continue to study the impact of wiki technology in their own programme, and encouraged others to evaluate the application of wiki technology in other areas of medical [education](#).

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