



WikiProject Computational Biology

Bioinformatics Curriculum Taskforce meeting

Alastair M. Kilpatrick, Daniel Mietchen and Benjamin L.
Moore

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How the curriculum guidelines are relevant in the context of Computational Biology:

- 1 English Wikipedia: writing, structuring, categorising, illustrating and interlinking articles
- 2 Wikibooks: development of an open bioinformatics textbook
- 3 Wikimedia Commons: openly licensed academic media files
- 4 Wikidata: semantic web applications in bioinformatics
- 5 Wikisource: annotating the biomedical literature
- 6 Wikimedia Labs: software development infrastructure



English Wikipedia: WikiProject Computational Biology



Introduction

Context

WikiProject

Wikibooks

Collaborations

About the WikiProject:

- Started 2011 out of WikiProject Mathematical and Computational Biology
- Nearing 100 members
- \approx 1200 en.wiki articles identified as in scope

Curriculum can guide article categorisation within the WikiProject, and aid with identifying a subset of core articles.



Bioinformatics open textbook

Author and collate an open Bioinformatics textbook based on curriculum guidelines.

New Wikibook structured from existing Wikipedia articles, PLOS Education articles and new materials contributed by: WikiProject members, ISCB members, Wikipedians, Wikibookians.

- ✓ Free and open-source, accessible
- ✓ Up-to-date information, including on popular tools
- ✓ Can be linked with e.g. Wikiversity learning resources
- × Hard to motivate and sustain contributions



Existing collaborations between Comp Bio and Wikimedia

- Wiki edits can be synced with databases (e.g. Rfam)
- Wiki articles can be created from databases (e.g. Gene Wiki)
- Journal articles can be written for Wikipedia (e.g. PLOS Computational Biology Topic Pages)
- Editing contests can bring you to ISMB

Curriculum can foster further collaborations.