



Increasing Access To Bioinformatics Resources

Increase Community Curation by Increasing Your Community

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Our Product: Training Users via Tutorial Suites

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GBrowse User Introductory Tutorial

This suite is part of a larger set of tutorials funded in a large part by NHGRI. Additional free tutorials on model organism resources can be found at http://www.openhelix.com/model_organisms.shtml



Generic Genome Browser (GBrowse)

OpenHelix Online Tutorial Suite

Learn to use [GBrowse](#), a web application that allows you to explore genomic sequences together with annotated data. GBrowse is rapidly becoming a genomic browser of choice amongst organism databases, because the browser is both universal and yet customizable. Once you learn to use GBrowse at one database, you'll be able to use it to view any genome. Results can be customized to show only the data you want to see. The tool is flexible to allow you to upload and incorporate your own unpublished data into the genomic viewer. You'll have fun as

you explore a variety of genomes (from paramecia to personal genomics) with the new perspective and detailed annotations that GBrowse provides.

You'll learn:

- the basic layout and search methods at GBrowse
- how to access detailed annotation data tied to genomic sequences
- how to select and customize annotations using Tracks
- how to upload and incorporate your own data or other external data sources
- take a tour of different GBrowse annotations at model organism databases



More about the resource:

[GBrowse](#) stands for "Generic Genome Browser". It is a web application to view and explore annotated genomes. It was developed by [GMOD](#), the Generic Model Organism Database, which is a community of biologists and computer programmers dedicated to the idea of making free, open-source software available to all model organism databases, or MODs, with the goal of simplifying and standardizing the appearance and usage of these MODs. When new genomes from different organisms are sequenced and a dedicated annotated database is created to serve that genome, the curators can use GBrowse to get their MOD up and running in no time.

[Click here for technical information on using OpenHelix tutorial and training materials.](#)

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Other Online Tutorials

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1. Modular Flash tutorial with professionally recorded audio
2. PowerPoint slides with full script text included
3. Slide Handouts for easy note taking
4. Step-by-step exercises that lead user through hands-on experience
5. Link to Resource

Nature Precedings : doi:10.1038/npre.2009.3163.1.1 : Posted 23 Apr 2009



“Community Service” Efforts

Increase awareness of “ bioinformatics” resources:

- **OpenHelix Blog**
- **Resource Search Tool**
- **Act as a Community Bridge**

**This will increase the resource’ s user base,
and thereby increase the community curation
(theoretically)**

Funding largely from an NHGRI SBIR Phase II grant.

Increasing Community Curation:

| | Community_ <u>Size</u> | x | Contribution_ <u>Rate</u> | = | Number of <u>contributors</u> |
|-------------------------|---------------------------|---|------------------------------|---|----------------------------------|
| by default: | 500 | x | 1 % | = | 5 people |
| increased rate: | 500 | x | 5 % | = | 25 people |
| increased community: | 5000 | x | 1 % | = | 50 people |
| both approaches: | 5000 | x | 5 % | = | 250 people |

**Complementary Approaches
to increasing community curation!**

Research Search Tool

The screenshot shows the OpenHelix search interface. At the top left is the OpenHelix logo and a 'Menu' button. The search bar contains the text 'SNPs' and has 'Search' and 'Clear' buttons. Below the search bar are 'Advanced search options' and a 'Help' link. There are dropdown menus for 'Results per page' (set to 5) and 'Sort results based on' (set to 'Combined relevance'). A message states: 'Your query 'SNPs' matched 11264 documents in 61 resources.' Below this is a link for 'Free tutorials that match your search'. The main content area is titled 'OpenHelix Tutorials' and 'Resource Int'. It lists 'NIEHS SNPs Program' with a URL and 'SeattleSNPs' with a URL. There are expandable sections for 'Web pages from the resource that were relevant to your search' and 'OpenHelix Blog posts relevant to your search'. A 'Sponsored by: SeattleSNPs' logo is also visible. A 'Latest News' button is at the bottom left of the search results area.

Easy keyword searching for bioinformatics resources; users can modify the criteria by which their search results are ranked

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- Over 3000 resources identified, categorized and culled.
- Top resources in each category crawled to a few layers down, unless disallowed

Beta Testers Appreciated!!

Pages hit on our blog

Pages hit within the resource

Links to hits within our trainings



Acting as a Bridge

Nature Precedings : doi:10.1038/npre.2009.3163.1 : Posted 23 Apr 2009

“ I don’ t want to ask a dumb question”

OpenHelix

“ I don’ t want to bother them”

“ I doubt they’ ll do anything about my comments”

Etc.



User



Resource



Acknowledgements

Thanks for the invitation to talk.

Thanks **VERY** much to the organizers!

Any questions, suggestions or comments,
feel free to email me:

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