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Abstract

HOMOPHILA is a searchable database of human disease genes, obtained from the Online Mendelian Inheritance in Man database, that have significant homology at the protein level to genes contained in FlyBase, the current *Drosophila* sequence database.

Content

HOMOPHILA is a searchable database of human disease genes, obtained from the [Online Mendelian Inheritance in Man](#) database, that have significant homology at the protein level to genes contained in [FlyBase](#), the current *Drosophila* sequence database. Of the 920 gene entries contained in OMIM, 708 (77%) had strong matches to sequences in the *Drosophila* database. There are in-site links to 'Known alleles', 'Disease categories' and 'Signaling pathway homologs', which display subsets of the data. There is also a page that displays the number of *Drosophila* sequences related to human disease genes as a function of the BLAST similarity e-value in a graphical format.

Navigation

Navigation through the site is easy. At the bottom of the homepage is a simple search engine using a keyword search with drag-down options. An example query is also provided, on the list of links running down the right-hand side of the main page.

Reporter's comments

Timeliness

According to the website the data are updated monthly.

Best feature

As a fan of simple search engines, I rate this one highly.

Worst feature

The search engine doesn't allow Boolean searches, so each gene or homolog has to be searched for individually

Table of links

[The Human Disease to *Drosophila* Gene Database](#)

[Online Mendelian Inheritance in Man](#)

[FlyBase](#)

References

1. [The Human Disease to *Drosophila* Gene Database.](#)