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Identification of homology in human and mouse genomes

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Abstract

The NCBI human/mouse homology map compares the position of genes and other loci in homologous segments of DNA from human and mouse sources.

Content

The NCBI human/mouse homology map compares the position of genes and other loci in homologous segments of DNA from human and mouse sources. The information is sorted by position for both genomes. As noted on the site, there is no detailed information available for about half the genes in the database, so much of the map should be interpreted as a reflection of probable, not confirmed, homology relationships.

Navigation

Navigation is very straightforward: select the chromosome of interest, from either the mouse or human, and scroll down the page to the region of interest.

Reporter's comments

Timeliness

The site was last updated on 2 August 1999.

Best feature

There is a link to the [Online Mendelian inheritance in man](#) (OMIM) entry for each human locus and to the [Mouse genome informatics](#) site for each murine locus.

Wish list

Some sort of graphical display (for example, in the form of colored bars) to indicate different levels of reliability of the described homology relationships would be useful.

Related websites

A [gene map of the human genome](#) gives details of the map position of known human transcripts. [The Cooperative Human Linkage Center](#) website has further genetic mapping information for human chromosomes. A similar resource is the Mouse Genome Database (MGD) hosted by the [Mouse genome informatics](#) website.

Table of links

[Human/mouse homology relationships](#)

[Online Mendelian inheritance in man](#)

[Mouse genome informatics](#)

[A gene map of the human genome](#)

[The Cooperative Human Linkage Center](#)

References

1. [Human/mouse homology relationships](#).