

Database of Macromolecular Movements

with Associated Tools for Geometric Analysis

This describes the motions that occur in proteins and other macromolecules, particularly using movies. Associated with it are a variety of free software tools and servers for structural analysis.

 View entry:
 Search motions database:

 Acetylcholinesterase [acetyl]
 ▼ OR

 Full-text
 ▼ Search



Movies

Gallery of movies (new ranker interface) of protein motions. If you want to make your own movie, we have a Morph Server that will interpolate between any two protein conformations, generating a movie. Also, a server with a simplified interface. The highlights page shows some of the best movies in the databse, all generated by the morph server. (Alternate, MPEGs-only page.)



Papers

- A general Scientific American article on water and protein motions [full-text]
- The database citation: M Gerstein & WG Krebs (1998). Nuc. Acid. Res. 26:4280-4290 [medline].
- More papers....



Software

This includes <u>freeware</u> for calculating volumes, surfaces, axes, angles, and distances. Also, there is information about <u>VRML</u>.



Browse

The main database is arranged around a multi-level classification scheme (e.g. motions of loops, domains, or subunits). It can either be viewed as individual motions by selecting from the menu above, or as a <u>full outline</u>. The overal classifications scheme is briefly described on the <u>help page</u>. Also available are: a focus page on <u>motions in membrane proteins, schematic</u>, or a raw <u>SQL</u> data dump.



Edit

You can add a comment, including a link or reference, to any motion report by clicking on "Add a comment" at the top of each motion page. Other comments, suggestions, and submissions are highly encouraged and should be emailed to motions@bioinfo.mbb.yale.edu. If you want to link directly to entries in the database, more information is available.





