Molecular Modeling Tips

One of the most exciting frontiers of biological investigation concerns the understanding of the three-dimensional structure of molecules and the relationship of their structure to function.

Scientists in many fields are working to try to make models that will predict not only the shapes of individual molecules, but also the interactions between them.

This is a challenging category, yet one that represents a truly important aspect of current research.

The model is not expected to consist of a laboratory grade ball-and-stick model. Models created of common materials can often provide a strong and creative analogy for the interactions between target molecules.

Resources

Cn3D (see in 3-D!) and the associated MMDB database
http://www.ncbi.nlm.nih.gov/Structure/

Protein Data Bank
http://www.rcsb.org/pdb/index.html

Swiss PDB viewer
http://www.expasy.ch/spdbv/

Geospiza Tutorial
http://www.geospiza.com/outreach/structure/index.html