

Gene Expression and Genome, Cells, Chemical Anatomies, Foundations, DNA Editing & Labeling, Biological Molecules, ~~Genome Marking & Sequencing~~, Restriction Mapping, Algorithms, Motif Finding, motifs, Sequence Alignment, Similarity Searches, Gene Prediction, Fragment Assembly in DNA sequencing, Gene Prediction, Gene Expression Analysis, Evolutionary Trees (Phylogenetics), Protein & RNA structure Prediction.

Short defn.:

"Bioinformatics is the use of computational methods of study biological data."

Elaborations:

Bioinformatics is:

- (i) the development of computational methods for studying the structure, function and evolution of genes, proteins and whole genomes.
- (ii) the development of mgmt. & analysis of biological info. arising from genomics & high-throughput expts.

Defn: (According to astrobiology program of NASA)

"Life is a self-sustained chemical system capable of undergoing Darwinian evolution."



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