

role in the analysis of this large amount of data. Some popular examples include R, Python, and Bioconductor.

Visualization tools: These are used to display the results of bioinformatics analyses, such as sequence alignments, phylogenetic trees, and protein structures. Some popular examples include MEGA, Jalview, and Cytoscape.

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These concepts provide the foundation for many bioinformatics applications, including sequence alignment, gene prediction, phylogenetics, protein structure prediction, drug discovery, and functional genomics.

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