Pathway Bioinformatics – database, software, and discovery

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Abstract

Pathway databases is a good tool for comprehensive understanding of complex biological systems. It integrates diverse data types such as genomic information, scientific literature, microarray data, and protein-protein interaction data. Many challenging questions remain in this field. Today, we don't even have a common standard for pathway representation. In my talk, I will also touch on a few advanced topics in the field, such as pathway comparison, orthologous pathway prediction, and de novo prediction of pathways.