

# Integration and Analysis of Biological Data

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Not only have the number of known sequences increased exponentially, the types of data associated with these sequences, the algorithms available for processing sequence information, and the locations of this information have also grown dramatically. The current state of affairs can leave the bioinformaticist in the difficult situation of having too many sequences to study in too many ways against too many data sources. Manual ad hoc processing strategies are quickly becoming overwhelmed and outmoded. We are developing open platform informatics technologies for integrating and analyzing biological data. My paper will discuss workflow, dataflow, relational databases and visualization issues.