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Molecular biology produces huge amounts of data in the post-genomic era. This includes data describing metabolic mechanisms and pathways, structural genomic organization, patterns of regulatory regions; proteomics, transcriptomics, and metabolomics. On the one hand, analysis of this data uses essentially the methods and concepts of computer science; on the other hand, the range of biological tasks solved by researchers determines the range and scope of the data. Currently, there are about 1,000 database systems and various analytical tools available via the Internet which are directed at solving various biological tasks.

The challenge we have is to integrate these list-parts and relationships from genomics and proteomics at novel levels of understanding. Integrative Bioinformatics is a new area of research using the tools of computer science and electronic infrastructure applied to Biotechnology. These tools will also represent the backbone of the concept of a virtual cell.

Topics

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- Integration of Data, Methods and Tools
- Metabolic and Regulatory Network Modeling and Simulation
- Signal Pathways and Cell Control
- Network Analysis
- Medical Informatics, Biomedicine and Biotechnology
- Integrative Approaches for Drug Design
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Integrative, whole cell and molecular modeling
Visualization and animation

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