Objective

Journal of Integrative Bioinformatics (JIB) is an international open access journal publishing original peer-reviewed research articles in all aspects of integrative bioinformatics.

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

Software applications/tools and databases covering the following topics:
- Molecular Databases, Information Systems and Data Warehouses
- 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
- Integrative Data and Text Mining Approaches
Integrative, whole cell and molecular modeling
Visualization and animation

Review papers are also welcome with regard to JIB Tools.

Article formats
Research articles, Review papers, Workshop contributions (if peer-reviewed)

Article processing charges
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> Information on submission process

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