

BIOINFORMATICS OF GENOME REGULATION AND STRUCTURE

covers:

- regulatory genomic sequences: databases, knowledge bases, computer analysis, modeling, and recognition;
- large-scale genome analysis and functional annotation;
- gene structure detection and prediction;
- comparative and evolutionary genomics;
- computer analysis of genome polymorphism and evolution; computer analysis and modeling of transcription, splicing, and translation; structural computational biology: structure-function organization of genomic DNA, RNA, and proteins;
- gene networks, signal transduction pathways, and genetically controlled metabolic pathways: principles of organization, operation, and evolution;
- data warehousing, knowledge discovery and data mining; and
- analysis of basic patterns of genome operation, organization, and evolution.

The data presented may be used while solving a wide range of problems, both basic and applied, in various directions of molecular biology, molecular genetics, biotechnology, pharmacogenetics, pharmacology, and adjacent fields of medicine, veterinary, and agrobiological.

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