

# Preface



The purpose of the book titled *Bioinformation Discovery: Data to Knowledge in Biology* is to illustrate the power of biological data in knowledge discovery. The book consists of ten chapters spanning approximately 200 pages. It describes biological data types and representations with examples for creating a workflow in bioinformation discovery. The concepts in biological knowledge discovery from data are illustrated using line diagrams.

The principles and concepts in knowledge discovery are used for the development of prediction models. Simulations of biological reactions using prediction models will further help in the design of its components. Advanced topics in molecular evolution and cellular and molecular biology are addressed using bioinformation gleaned through knowledge discovery from data. The salient features of the book are: (1) bioinformation discovery as a new domain in biology; (2) biological data; (3) biological dataset creation from databases; (4) biological knowledge extraction from data; (5) examples of knowledge discovery; (6) exercises for practice. The exercise problems are designed to help students to expand their problem-solving skills in bioinformation discovery.

Biomedical Informatics, Pondicherry, India

Pandjassaram Kanguane



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