



# **BIOINFORMATICS: METHODS AND APPLICATIONS: (Genomics, Proteomics and Drug Discovery)**

*S. C. RASTOGI, NAMITA MENDIRATTA, PARAG RASTOGI*

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Designed as a text for students and professionals pursuing careers in the fields of molecular biology, pharmacy and bioinformatics, the fourth edition continues to offer a fascinating and authoritative treatment of the entire spectrum of bioinformatics, covering a wide range of high-throughput technologies. In this edition, four new chapters are included and two chapters are updated.

As a student-friendly text, it embodies several pedagogic features such as detailed examples, chapter-end problems, numerous tables, a large number of diagrams, flow charts, a comprehensive glossary and an up-to-date bibliography. This book should prove an invaluable asset to students and researchers in the fields of bioinformatics, biotechnology, computer-aided drug design, information technology, medical diagnostics, molecular biology and pharmaceutical industry.

**NEW TO THE FOURTH EDITION:** • Includes four new chapters—Introduction to Biological Databases, Introduction to Phylogenetic, Methods of Phylogenetic analysis and RNA Predict. • Updates chapters on Information Search and Data Retrieval and Alignment of Multiple Sequences. • Incorporates Problem Sets containing more than 250 problems and Multiple Choice Questions so that students can test their knowledge and understanding.

### Key Features

- State-of-the-art technologies for gene identification, molecular modeling and monitoring of cellular processes
- Data mining, analysis, classification, interpretation and efficient structure determination of genomes and proteomes
- Importance of cell cycle for discovering new drug targets and their ligands
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Companion website [www.phindia.com/rastogi](http://www.phindia.com/rastogi) provides useful resources for the teachers as well as for the students.

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