



# Biological Database Modeling

*Jake Chen, Editors Amandeep S.*

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Master the next-generation of database modeling techniques with this cutting-edge resource and take your biodata management skills to the next level. The book shows you how to take a global approach to representing complex biological concepts and their evolving data structures. This highly accessible volume presents innovative biological database modeling concepts, methods, and software tools that are integrated with case studies in genomics, functional genomics, proteomics, and drug discovery projects. Breaking new ground at the intersection of high-throughput biology, bioinformatics, and data management, this essential resource offers you a comprehensive introduction to biological data modeling techniques, biological database resources, and ontology concepts. You are introduced to the latest computational methods and software applications for processing, integrating, and managing biological data from a variety of sources, including public literature, high-throughput sequencing, gene expression profiling, proteomics profiling, and chemical compound screenings. Throughout the book, novel perspectives are presented to deal with challenges inherent in biological data, including “Omics” data--high volume, high noise, inconsistent format, incompleteness, and semantic incompatibility. Supported with more than 50 illustrations, this unique reference serves as a practical guide to your current and future bioinformatics data management projects, enabling you to design and implement effective biological data management and workflow systems.

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