

# 《生物信息学》

## 图书基本信息

书名 : 《生物信息学》

13位ISBN编号 : 9787030110251

10位ISBN编号 : 7030110250

出版时间 : 2003-1

出版社 : 科学出版社发行部

作者 : 韦斯特海德

页数 : 257

版权说明 : 本站所提供下载的PDF图书仅提供预览和简介以及在线试读 , 请支持正版图书。

更多资源请访问 : [www.tushu000.com](http://www.tushu000.com)

# 《生物信息学》

## 内容概要

《生物信息学(影印本)(先锋版)》是“现代生物学精要速览”系列之一。涵盖该学科所有重要专题；易于学生理解和应试；是生物信息学领域最佳首选入门读物之一。全书共15章，全面、系统地概括了生物信息学的核心内容，使学生能快速容易地进入这一领域，并很好地指导学习和考试。

# 《生物信息学》

## 书籍目录

Abbreviations	Preface	Section A-Overview of bioinformatics	A1 The scope of bioinformatics	A2																																																				
Bioinformatics and the Internet	A3 Useful bioinformatics sites on the WWW	Section B- Data acquisition	B1																																																					
Sequencing DNA, RNA and proteins	B2 Determination of protein structure	B3 Gene and protein expression data	B4 Protein interaction data	Section C-Databases-contents,structure and annotation	C1 File formats	C2 Annotated sequence databases	C3 Genome and organism-specific databases	C4																																																
Miscellaneous databases	Section D-Retrieval of biological data	D1 Data retrieval with Entrez and DBGET/LinkDB	D2 Data retrieval with SRS(sequence retrieval system)	Section E-Searching sequence databases by sequence	E1 Sequence similarity searches	E2 Amino acid substitution matrices	E3 Databases searches:FASTA and BLAST	E4 Sequence filters	E5 Iterative database searches and PSI-BLAST	Section F-Multiple sequence alignment and family relationships	F1 Multiple sequence alignment and family relationships	F2 Protein families and pattern databases	F3 Protein domain families	Section G-Phylogenetics	G1 Phylogenetics,cladistics and ontology	G2 Building phylogenetic trees	G3 Evolution of macromolecular sequences	Section H-Sequence annotation	H1 Principles of genome annotation	H2 Annotation tools and resources	Section I-Structural bioinformatics	I1 Conceptual models of protein structure	I2 The relationship of protein three-dimensional structure to protein function	I3 The evolution of protein structure and function	I4 Obtaining,viewing and analyzing structural data	I5 Structural alignment	I6 Classification of proteins of known three-dimensional structure:CATH and SCOP	I7 Introduction to protein structure prediction	I8 Structure prediction by comparative modeling	I9 Secondary structure prediction	I10 Advanced protein structure prediction and prediction strategies	Section J-Microarray data analysis	J1 Microarray data:analysis methods	J2 Microarray data:tools and resources	J3 Sequence sampling and SAGE	Section K-Proteomic data analysis	K1 Analyzing data from 2D-PAGE gels	K2 Analyzing protein mass spectrometry data	Section L-Higher-order systems	L1 Modeling and reconstructing molecular pathways	L2 Protein interaction informatics	L3 Higher-order models	Section M-Cheminformatics in biology	M1 Conventions for representing molecular pathways	M2 Cheminformatics resources	Section N-Bioinformatics in the pharmaceutical industry	N1 Bioinformatics and drug discovery	N2 Pharmainformatics resources	Section O-Basic principles of computing in bioinformatics	O1 Running computer software	O2 Computer operating systems	O3 Software downloading and installation	O4 Database management	Further reading	Glossary	Index

# 《生物信息学》

## 精彩短评

- 1、这本书很薄，是英文影印版，书也是比较中规中矩，对于入门来说还是可以的。不过如果想要深入，还是要参考其他教材。生物信息学要想出好书不容易，本身这门学科就不是很成熟（国外可能好些）。
- 2、本科买的，当英语阅读看。囧。一大半在往返计算所的火车上看的。作为入门书，还是相当不错的，简单又全面。
- 3、手中有一本，作为被查概览还是不错的
- 4、俺读的bioinfo第一本外文教材。
- 5、复习还是好用的

# 《生物信息学》

## 版权说明

本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问:[www.tushu000.com](http://www.tushu000.com)