

1. Record Nr.	UNINA9910820708303321
Titolo	Concise Encyclopaedia of Bioinformatics and Computational Biology
Pubbl/distr/stampa	Hoboken, : Wiley, 2013
ISBN	0-470-97872-4 1-118-59816-4
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (832 p.)
Disciplina	572.330285
Soggetti	Bioinformatics -- Dictionaries Computational biology -- Dictionaries Systems biology -- Dictionaries Bioinformatics Computational biology Biology Health & Biological Sciences Biology - General
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Concise Encyclopaedia of Bioinformatics and Computational Biology; Title Page; Copyright; Contents; List of Contributors; Preface; A; Ab Initio; Ab Initio Gene Prediction, see Gene Prediction, ab initio.; ABNR, see Energy Minimization.; Accuracy (of Protein Structure Prediction); David Jones; Accuracy Measures, see Error Measures.; Adjacent Group; Aidan Budd and Alexandros Stamatakis; Admixture Mapping (Mapping by Admixture Linkage Disequilibrium); Andrew Collins, Mark McCarthy and Steven Wiltshire; Adopted-basis Newton-Raphson Minimization (ABNR), see Energy Minimization. Affine Gap Penalty, see Gap Penalty. Affinity Propagation-based Clustering; Pedro Larranaga and Concha Bielza; Affymetrix GeneChip™ Oligonucleotide Microarray; Stuart Brown and Dov Greenbaum; Affymetrix Probe Level Analysis; Stuart Brown; After Sphere, see After State.; After State (After Sphere); Thomas D. Schneider; AIC, see Akaike Information Criterion.; Akaike Information Criterion; Pedro Larranaga

and Concha Bielza; Algorithm; Matthew He; Alignment (Domain Alignment, Repeats Alignment); Jaap Heringa; Alignment Score; Laszlo Patthy; Allele-Sharing Methods (Non-parametric Linkage Analysis) Mark McCarthy, Steven Wiltshire and Andrew Collins Allelic Association; Mark McCarthy, Steven Wiltshire and Andrew Collins; Allen Brain Atlas; Dan Bolser; Allopatric Evolution (Allopatric Speciation); A.R. Hoelzel; Allopatric Speciation, see Allopatric Evolution.; AlogP; Bissan Al-Lazikani; Alpha carbon, see C (C-Alpha).; Alpha Helix; Roman Laskowski and Tjaart de Beer; Alternative Splicing; Enrique Blanco and Josep F. Abril; Alternative Splicing Gene Prediction, see Gene Prediction, alternative splicing.; Amide Bond (Peptide Bond); Roman Laskowski and Tjaart de Beer; Amino Acid (Residue) Roman Laskowski, Jeremy Baum and Tjaart de Beer Amino Acid Abbreviations, see IUPAC-IUB Codes.; Amino Acid Composition; Jeremy Baum; Amino Acid Exchange Matrix (Dayhoff Matrix, Log Odds Score, PAM (Matrix), BLOSUM Matrix); Jaap Heringa; AMINO Acid Substitution Matrix, see Amino Acid Exchange Matrix.; Amino-terminus, see N-terminus.; Amphipathic; Roman Laskowski and Tjaart de Beer; Analog (Analogue); Dov Greenbaum; Ancestral Lineage, see Offspring Lineage.; Ancestral State Reconstruction; Sudhir Kumar and Alan Filipksi; Anchor Points; Roland Dunbrack Annotation Refinement Pipelines, see Gene Prediction. Annotation Transfer (Guilt by Association Annotation); Dov Greenbaum; APBIONET (Asia-Pacific Bioinformatics Network); Pedro Fernandes; Apomorphy; A. R. Hoelzel; APOLLO, see Gene Annotation, visualization tools.; Arc, see Branch (of a Phylogenetic Tree).; Are We There Yet?, see AWTY.; Aromatic; Roman Laskowski and Tjaart de Beer; Array, see Data Structure.; Artificial Neural Networks, see Neural Networks.; ASBCB (The African Society for Bioinformatics and Computational Biology); Pedro Fernandes Association Analysis (Linkage Disequilibrium Analysis)

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## Sommario/riassunto

Concise Encyclopaedia of Bioinformatics and Computational Biology, 2nd Edition is a fully revised and updated version of this acclaimed resource. The book provides definitions and often explanations of over 1000 words, phrases and concepts relating to this fast-moving and exciting field, offering a convenient, one-stop summary of the core knowledge in the area. This second edition is an invaluable resource for students, researchers and academics.

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