

1. Record Nr.	UNINA9910140740303321
Titolo	Evolutionary genomics and systems biology [[electronic resource] /] / edited by Gustavo Caetano-Anolles
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Blackwell, c2010
ISBN	1-118-21071-9 1-282-70753-1 9786612707537 0-470-57041-5 0-470-57040-7
Descrizione fisica	1 online resource (520 p.)
Altri autori (Persone)	Caetano-AnollesGustavo <1955->
Disciplina	572.8/38
Soggetti	Evolutionary genetics Molecular evolution
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Evolutionary genomics leads the way / David Penny & Lesley J. Collins -- Current approaches to phylogenomic reconstruction / Denis Baurain & Herve Philippe -- The universal tree of life and the Last Universal Cellular Ancestor : revolution and counterrevolutions / Patrick Forterre -- Eukaryotic evolution : the importance of the stem group / Anthony M. Poole -- The role of information in evolutionary genomics of bacteria / Antoine Danchin & Agnieszka Sekowska -- Evolutionary genomics of yeasts / Bernard Dujon -- Genotypes and phenotypes in the evolution of molecules / Peter Schuster -- Genome evolution studied through protein structure / Philip E. Bourne ... [et al.] -- Chromosomal rearrangements in evolution / Hao Zhao & Guillaume Bourque -- Molecular structure and evolution of genomes / Todd A. Castoe, A. P. Jason de Koning, & David D. Pollock -- The evolution of protein material costs / Jason G. Bragg & Andreas Wagner -- Protein domains as evolutionary units / Andrew D. Moore & Erich Bornberg- Bauer -- Domain family analyses to understand protein function evolution / Adam James Reid ... [et al.] -- Noncoding RNA / Alexander Donath ... [et al.] -- Evolutionary genomics of microRNAs and their

relatives / Andrea Tanzer ... [et al.] -- Phylogenetic utility of RNA structure : evolution's arrow and emergence of early biochemistry and diversified life / Feng-Jie Sun, Ajith Harish, & Gustavo Caetano-Anolles -- A hitchhiker's guide to evolving networks / Charles G. Kurland & Otto G. Berg -- Evolution of metabolic networks / Eivind Almaas -- Single-gene and whole-genome duplications and the evolution of protein-protein interaction networks / Grigoris Amoutzias & Yves Van de Peer -- Modularity and dissipation in evolution of macromolecular structures, functions, and networks / Gustavo Caetano-Anolles, Liudmila Yafremava, & Jay E. Mittenthal.

Sommario/riassunto

A comprehensive, authoritative look at an emergent area in post-genomic science, Evolutionary genomics is an up-and-coming, complex field that attempts to explain the biocomplexity of the living world. Evolutionary Genomics and Systems Biology is the first full-length book to blend established and emerging concepts in bioinformatics, evolution, genomics, and structural biology, with the integrative views of network and systems biology. Three key aspects of evolutionary genomics and systems biology are covered in clear detail: the study of genomic history, i.e., understanding organismal

2. Record Nr.	UNINA9910983389203321
Autore	Perez-Rodriguez Fernando
Titolo	Basic Protocols in Predictive Microbiology Softwares
Pubbl/distr/stampa	New York, NY : , : Springer, , 2025 ©2025
ISBN	9781071641125 1071641123
Edizione	[1st ed.]
Descrizione fisica	1 online resource (284 pages)
Collana	Methods and Protocols in Food Science Series
Altri autori (Persone)	ValeroAntonio BolivarAraceli
Disciplina	664.001579
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This volume provides an overview of the existing predictive microbiology software tools, describing the main characteristics of use and application. Chapters will guide readers through tool features and functionalities, and specific case studies. Written in the format of the Methods and Protocols in Food Science series, the chapters include an introduction to the respective topic, list necessary materials and reagents, detail well established and validated methods for readily reproducible laboratory protocols and contain notes on how to avoid or solve typical problems. Authoritative and cutting-edge, Basic Protocols in Predictive Microbiology Softwares aims to ensure successful results in the further study of this vital field.