

1. Record Nr.	UNINA9910811273003321
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Titolo	Molecular evolution and phylogenetics / / Masatoshi Nei, Sudhir Kumar
Pubbl/distr/stampa	Oxford ; ; New York, : Oxford University Press, 2000
ISBN	0-19-770163-9 0-19-988122-7 9786610834372 1-280-83437-4 0-19-535051-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (348 pages)
Collana	Oxford scholarship online.
Altri autori (Persone)	KumarS <1958-> (Sudhir)
Disciplina	572.838
Soggetti	Evolutionary genetics - Statistical methods Molecular evolution - Statistical methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 2000.
Nota di bibliografia	Includes bibliographical references (p. 301-328) and index.
Nota di contenuto	Contents; Numerical Examples; 1 Molecular Basis of Evolution; 2 Evolutionary Change of Amino Acid Sequences; 3 Evolutionary Change of DNA Sequences; 4 Synonymous and Nonsynonymous Nucleotide Substitutions; 5 Phylogenetic Trees; 6 Phylogenetic Inference: Distance Methods; 7 Phylogenetic Inference: Maximum Parsimony Methods; 8 Phylogenetic Inference: Maximum Likelihood Methods; 9 Accuracies and Statistical Tests of Phylogenetic Trees; 10 Molecular Clocks and Linearized Trees; 11 Ancestral Nucleotide and Amino Acid Sequences; 12 Genetic Polymorphism and Evolution 13 Population Trees from Genetic Markers 14 Perspectives; Appendices; References; Index
Sommario/riassunto	This is a treatment of the statistical methods used in molecular evolution and phylogenetics study. Newly developed statistical methods for studying the molecular clock, adaptive evolution and inference of ancestral amino acid sequences are also included.