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	Altri autori (Persone)	DittmarKatharina LiberlesDavid A
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	EVOLUTION AFTER GENE DUPLICATION; CONTENTS; Contributors; Preface; 1 Understanding Gene Duplication Through Biochemistry and Population Genetics; 2 Functional Divergence of Duplicated Genes; 3 Duplicate Retention After Small- and Large-Scale Duplications; 4 Gene Dosage and Duplication; 5 Myths and Realities of Gene Duplication; 6 Evolution After and Before Gene Duplication?; 7 Protein Products of Tandem Gene Duplication: A Structural View; 8 Statistical Methods for Detecting Functional Divergence of Gene Families 9 Mapping Gene Gains and Losses Among Metazoan Full Genomes Using an Integrated Phylogenetic Framework 10 Reconciling Phylogenetic Trees; 11 On the Energy and Material Cost of Gene Duplication; 12 Fate of a Duplicate in a Network Context; 13 Evolutionary and Functional Aspects of Genetic Redundancy; 14 Phylogenomic Approach to the Evolutionary Dynamics of Gene Duplication in Birds; 15 Gene and Genome Duplications in Plants; 16 Whole Genome Duplications and the Radiation of Vertebrates; Index
Sommario/riassunto	Gene duplication has long been believed to have played a major role in the rise of biological novelty through evolution of new function and gene expression patterns. The first book to examine gene duplication across all levels of biological organization, Evolution after Gene Duplication presents a comprehensive picture of the mechanistic process by which gene duplication may have played a role in generating biodiversity. Key Features:Explores comparative genomics, genome evolution studies and analysis of multi-gene families such as Hox, globins, olfactory