1. Record Nr. UNINA9910458735903321

Titolo	The implicit genome [[electronic resource] /] / edited by Lynn Helena Caporale
Pubbl/distr/stampa	Oxford ; ; New York, : Oxford University Press, 2006
ISBN	1-280-55917-9 9786610559176 0-19-534672-6 1-4294-0520-1
Descrizione fisica	1 online resource (398 p.)
Altri autori (Persone)	CaporaleLynn Helena
Disciplina	572.8/38
Soggetti	Evolutionary genetics Electronic books.
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 (p. 299-362) and index.
Nota di contenuto	Sequence-dependent properties of DNA and their role in function / Donald M. Crothers -- Mutation as a phenotype / Errol C. Friedberg -- Repeats and variation in pathogen selection / Christopher D. Bayliss and E. Richard Moxon -- Tuning knobs in the genome: evolution of simple sequence repeats by indirect selection / David G. King, Edward N. Trifonov, and Yechezkel Kashi -- Implicit information in eukaryotic pathogens as the basis of antigenic variation / J. Dave Barry -- The role of repeat sequences in bacterial genetic adaptation to stress / Eduardo P.C. Rocha -- The role of mobile DNA in the evolution of prokaryotic genomes / Garry Myers, Ian Paulsen, and Claire Fraser -- Eukaryotic transposable elements: teaching old genomes new tricks / Susan R. Wessler -- Immunoglobulin recombination signal sequences: somatic and evolutionary functions / Ellen Hsu -- Somatic evolution of antibody genes / Rupert Beale and Dagmar Iber -- Regulated and unregulated recombination of G-rich genomic regions / Nancy Maizels -- The role of the genome in the initiation of meiotic recombination / Rhona H. Borts and David T. Kirkpatrick -- Nuclear duality and the genesis of unusual genomes in ciliated protozoa / Carolyn L. Jahn -- Editing informational content of expressed DNA sequences and their

	transcripts / Harold C. Smith -- Alternative splicing: one gene, many products / Brenton R. Graveley -- Imprinting: the hidden genome / Alyson Ashe and Emma Whitelaw.
Sommario/riassunto	Discusses three interconnected themes: information can be implied, rather than explicit, in a genome; information can lead to focused and/or regulated changes in nucleotide sequences; and information that affects the probability of distinct classes of mutation has implications for evolutionary theory.