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Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; PREFACE; CHAPTER 1 The Inheritance of Simple Mendelian Traits in Humans; DETECTING MENDELIAN INHERITANCE IN HUMANS; Test-Crosses and Pure Lines versus Pedigrees and Inferred Genotypes; Box 1.1 Early observations of Mendelian inheritance in humans; PATTERNS OF INHERITANCE AND EXAMPLES; Autosomal Dominant Traits; Autosomal Recessive Traits; X-Linked Recessive Traits; THE USE OF PEDIGREES TO PREDICT THE RESULTS OF MATINGS; Probability of Individual Genotypes; Probability of Group Outcomes; GATHERING DATA TO TEST THE MODE OF INHERITANCE OF A TRAIT Pooling Data from Many Families and Ascertainment ErrorsAscertainment errors in studies of dominant traits; Ascertainment errors in studies of recessive traits; INHERITANCE OF MULTIPLE TRAITS: INDEPENDENT ASSORTMENT AND LINKAGE; Determination of Linkage from Human Pedigrees; Genetic Recombination and LOD Scores; Informative and Noninformative Matings; Neutral Polymorphisms, Marker Loci, and Genetic Maps; Box 1.2 Internet sites; The use of protein products to define marker loci; The use of directly detected DNA differences as marker lod

EXAMPLE 1.1 Linkage of the Huntington's disease gene to an RFLPCONCLUSION; EXERCISES; REFERENCES; CHAPTER 2 Hereditary Traits That Do Not Show a Simple Mendelian Pattern; SINGLE-GENE TRAITS LACKING A SIMPLE MENDEUAN PATTERN; Variable Exprrssiviy and Incomplete Penetrance; Complementation; Phenocopies and Pleiotropy; QUANTITATIVE TRAITS; Multiple Alleles; Polygenic Inheritance; Major and Minor Genes; COMPLEX TRAITS; Epidemiological Analysis of Complex Traits; Liability; Family Clustering; Identical Twins; LOCALIZATION OF GENES RESPONSIBLE FOR COMPLEX AND QUANTITATIVE TRAITS
Linkage Analysis of Complex TraitsAffected Pedigree Member (APM) or Allele-Sharing Methods; Example 2.1. Familial psoriasis; Example 2.2. Familial breast cancer; Analysis of quantitative trait loci by allele-sharing methods; Example 2.3. Insulin-dependent diabetes mellitus; Example 2.4. Male homosexuality; Allelic Association; Example 2.5. Dyslexia; Candidate Gene; Example 2.6. Nonsyndromal autosomal recessive deafness; Example 2.7. Neuroticism and genes for serotonin metabolism; CONCLUSION: NATURE VERSUS NURTURE; EXERCISES; REFERENCES; CHAPTER 3 Genome Organization I UNEXPRESSED DNA, REPETITIVE AND UNIQUE SEQUENCESClustered, Highly Repetitive Sequences; The main families of highly repetitive sequences; Example 3.1. The a family of highly repetitive DNA; Small-Cluster, Intermediately Repeated DNA; Minisatellite DNA; Microsatellite DNA; Dispersed, Intermediately Repeated Sequences; Viral retrotransposons; Nonviral retrotransposons: Alu, L1, and processed pseudogenes; Unique Sequence DNA; EXPRESSED DNA, GENES AND GENE FAMILIES; The Organization of RNA Polymerase I1 Genes: Intmns and Exons; Box 3.1. Internet sites; Example 3.2. Collagen
Example 3.3. Cystic fibrosis

Sommario/riassunto

Molecular and Genetic Analysis of Human Traits will address the science student human genetics market. Although incorporating two basic themes: how do we establish that a trait is hereditary, and how is the human genome organized, it will also address relevant clinical examples and key related ethical issues. New attractive features have been added, including a chapter project, and end of chapter exercises which rely on real data. Each chapter includes end of chapter exercises, and references. In-text examples and internet references are cited. Most figur

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Record Nr.	UNINA9910720872303321
Autore	Cheng Ta-Pei
Titolo	Gauge Theory of Elementary Particle Physics / / Ta-Pei Cheng, Ling-Fong Li
Pubbl/distr/stampa	Oxford : , : Oxford University Press, , 1984
Descrizione fisica	1 online resource (548 pages)
Disciplina	539.72
Soggetti	Particles (Nuclear physics)
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Nota di contenuto	Part II -- 227 -- Appendix A Notations and conventions -- 494 -- Appendix B Feynman rules -- 498 -- Bibliography -- 513 -- References -- 517 -- Subject Index -- 527 -- Copyright.
Sommario/riassunto	This is a practical introduction to the principal ideas in gauge theory and their applications to elementary particle physics. It explains technique and methodology with simple exposition backed up by many illustrative examples. Derivations, some of well known results, are presented in sufficient detail to make the text accessible to readers entering the field for the first time. The book focuses on the strong interaction theory of quantum chromodynamics and the electroweak interaction theory of Glashow, Weinberg, and Salam, as well as the grand unification theory, exemplified by the simplest SU(5) model. Not intended as an exhaustive survey, the book nevertheless provides the general background necessary for a serious student who wishes to specialize in the field of elementary particle theory. Physicists with an interest in general aspects of gauge theory will also find the book highly useful.