1. Record Nr. UNINA9910144734503321 Autore Doerfler Walter <1933-> **Titolo** Foreign DNA in mammalian systems [[electronic resource] /] / Walter Doerfler Weinheim;; New York,: Wiley-VCH, c2000 Pubbl/distr/stampa **ISBN** 1-281-76415-9 9786611764159 3-527-61346-3 3-527-61347-1 Descrizione fisica 1 online resource (197 p.) Disciplina 572.819 572.8619 Soggetti Genetic transformation Mammals - Genetics Adenoviruses DNA **DNA** - Methylation Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Foreign DNA in Mammalian Systems; Preface; Contents; 1 Introduction; Nota di contenuto 1.1 Further reading; 2 ForeignDNA; 2.1 Foreign DNA in the environment; 2.2 Uptake and modes of persistence of foreign DNA in mammalian cells; 2.3 Further reading; 3 Methods to detect integrated foreign DNA; 3.1 Parameters of foreign DNA integration; 3.2 The fluorescent in situ hybridization method; 3.3 Detection of foreign DNA by Southern DNA ti DNA hybridization; 3.4 Detection of foreign DNA sequences by the pol reaction (PCR); 3.5 Recloning of junction fragments and the detern nucleotide sequences 3.6 Equilibirum sedimentation in alkaline CsCl gral DNA hybridization3. 7 Further reading; 4 The adenovirus paradigm; 4.1 An introduction to

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Sommario/riassunto

It is unlikely that the established genomes of present day organisms remain stable forever. It is conceivable that foreign DNA can gain entry into individual cells of an organism. Foreign DNA is defined as genetic material that derives from another organism of the same or a different species. The natural environment is heavily ""contaminated"" with such foreign DNA, and mammals, like other organisms, are frequently exposed to foreign DNA in their environment, notably by ingesting their daily food supply. By necessity, the gastrointestinal tract also of all mammalian organisms is constantly