

1. Record Nr.	UNINA9910829987403321
Titolo	Epigenetics
Pubbl/distr/stampa	Chichester, [England] : , : John Wiley & Sons, , 1998 ©1998
ISBN	1-282-34808-6 9786612348082 0-470-51550-3 0-470-51551-1
Descrizione fisica	1 online resource (320 p.)
Collana	Novartis Foundation Symposium ; ; 214
Altri autori (Persone)	ChadwickDerek CardewGail
Disciplina	572.8 572.865
Soggetti	Genetic regulation Epigenesis DNA - Methylation
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 and indexes.
Nota di contenuto	EPIGENETICS; Participants; Contents; Introduction; Gene silencing by methyl-CpG- binding proteins; DNAmethylation, nucleosornes and the inheritance okhromatin structure and function; General discussion I; Heritable chromatin states induced by the Polycomb and trithorax group genes; The dynamics of globin gene expression and position effects; Multiple epigenetic events regulate mating-type switching of fission yeast; General discussion I1; Nuclear organization and silencing: trafficking of Sir proteins; Epigenetic mechanisms in the regulation of the maize Suppressor-mutator transposon Transgene-promoted epigenetic switches of chalcone synthase activity in petunia plantsGeneral discussion I11; Gene silencing in plants: relevance for genome evolution and the acquisition of genomic methylation patterns; The host defence function of genomic methylation patterns; Mammalian X chromosome inactivation; Methylation dynamics, epigenetic fidelity and X chromosome structure;

General discussion IV; Imprinting and gene silencing in mice and DrosophiZa; Making sense of imprinting the mouse and human IGF2R loci; Imprinted genes in the Prader-Willi deletion; Final general discussion
SummaryIndex of contributors; Subject index

Sommario/riassunto

Epigenetics pertains to the development of an organism from an undifferentiated cell, resulting in the successive formation and development of organs and parts that did not pre-exist in the fertilized egg. An exciting and stimulating volume which used the extensive knowledge of basic transcriptional control as a foundation to explore the more complex and interesting level at which genes can be regulated.