

1. Record Nr.	UNINA9910784875503321
Titolo	RNA interference [[electronic resource] /] / Patrick J. Paddison, Peter K. Vogt, editors
Pubbl/distr/stampa	Berlin, : Springer, c2008
ISBN	1-281-17949-3 9786611179496 3-540-75157-2
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (282 p.)
Collana	Current topics in microbiology and immunology ; ; 320
Altri autori (Persone)	VogtP. K <1932-> (Peter K.) PaddisonPatrick J
Disciplina	615.7924
Soggetti	Gene silencing RNA
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 index.
Nota di contenuto	RNA Interference in Mammalian Cell Systems -- RNAi Pathway in C. elegans: The Argonautes and Collaborators -- Genetics and Biochemistry of RNAi in Drosophila -- Role of Dicer in Posttranscriptional RNA Silencing -- The Mechanism of RNase III Action: How Dicer Dices -- MicroRNA Metabolism in Plants -- Structure-Function Relationships Among RNA-Dependent RNA Polymerases -- RNAi-Mediated Chromatin Silencing in Fission Yeast -- A Role for RNAi in Heterochromatin Formation in Drosophila -- RNA-Mediated Transcriptional Gene Silencing in Human Cells -- RNA Silencing in Mammalian Oocytes and Early Embryos -- Identifying Human MicroRNAs.
Sommario/riassunto	In the last few years the major effect that RNAi has had in invertebrate systems like C.elegans and drosophila is beginning to take hold in mammalian systems through both single gene knockdown experiments and genome-scale screens. In the next decade, there will no doubt be both notable successes and failures as we attempt to apply this genetic tool to various biological problems for the first time in academia and industry. Through the introduction of RNAi, mammalian systems have finally gained admittance to the pantheon of model genetic systems.

