

1. Record Nr.	UNINA9910144578803321
Titolo	Cellular basis of morphogenesis [[electronic resource]]
Pubbl/distr/stampa	Chichester, West Sussex, England ; ; New York, : Wiley, 1989
ISBN	1-282-12235-5 9786612122354 0-470-51379-9 0-470-51380-2
Descrizione fisica	1 online resource (318 p.)
Collana	Ciba Foundation symposium ; ; 144
Altri autori (Persone)	EveredDavid MarshJoan
Disciplina	574.332 591.3 591.332
Soggetti	Morphogenesis Developmental cytology Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Symposium on Cellular Basis of Morphogenesis, held at the Juan March Foundation, Madrid, Spain 18-20 October 1988"--P. v. Edited by David Evered and Joan Marsh. "A Wiley-Interscience publication."
Nota di bibliografia	Includes bibliographies and index.
Nota di contenuto	CELLULAR BASIS OF MORPHOGENESIS; Contents; Participants; Introduction1; The cellular i nterphase; Localization of mRNA and axis formation during Xenopus embryogenesis; Axis determination in insect embryos; Morphogen gradients and the control of body pattern in insect embryos; General discussion I; The establishment of regional identity in the Xenopus blastula; Factors specifying cell lineages in the leech; Cell lineage and cell states in the Drosophila embryo; General discussion I I In vivo competition identifies posit i ve cis- reg u l at o r y e l e m e n t s required for lineage-specific gene expression in the sea urchin embryoCell allocation and lineage in the early mouse embryo; Induction and the organization of the body plan in Xenopus development;

General discussion I I I; Genetic control of cellular interactions in *Caenorhabditis elegans* development; Structure and function of the bithorax complex genes of *Drosophila*; Cadherin-mediated specific cell adhesion and animal morphogenesis

Polarity and patterning in the neural tube: the origin and function of the floor plate Cellular communication in the developing *Drosophila* eye; General discussion IV; Summary; Index of contributors; Subject index

---

Sommario/riassunto

Contributors to this symposium focus on the interface between genes and cells, covering genetic analysis, cloning studies, and the investigation of cell lineages and cellular interactions. They note how the body axes are already determined in the eggs of invertebrates and amphibia, then consider the mechanisms as the egg cleaves, in annelids, arthropods, amphibia, and mice that underlie assignation of cells to specific lineages, which give rise to different tissues in the adult. Closing chapters characterize the molecules that mediate each cell's particular fate, its position in the final body

---