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Altri autori (Persone)	EveredDavid MarshJoan
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General discussion I I I; Genetic control of cellular interactions in Caenorhabditis elegans development; Structure and function of the bithorax complex genes of Drosophila; Cad heri n-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

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Titolo

Advance of Polymers Applied to Biomedical Applications : Cell Scaffolds
// edited by Insung S. Choi, Joao F. Mano

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Since Langer's seminal work, polymers have been on every corner of tissue engineering. The roles of bioresorbable polymers, as a scaffold, are not merely structural, providing three-dimensional (3D) homing

sites to cells, but also functional at their interface with the cells. The polymeric scaffolds actively act as both biochemical and physical cues for cell behaviors, such as adhesion, growth, proliferation, and differentiation. Polymers and cells could interact further with each other mutually, sensing and responding to the signals from the partner. Technological advances in this direction, including chemical modification of polymer scaffolds, highly cytocompatible hybrid materials/composites, dynamic scaffolds, control of juxtacrine interactions, and 3D bioprinting and microfluidic devices, ensure the advances in polymers as cell scaffolds. The detection and characterization methods for cell-material interactions and cell behaviors have been greatly improved, and new characterization techniques have emerged. Recent years have witnessed a quantum leap of progress in tissue engineering and regenerative medicine, and this edited book illustrates some of the advances in polymers as cell scaffolds.
