1. Record Nr. UNINA9910830586603321

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Titolo	Cell Signaling and Growth Factors in Development: From Molecules to Organogenesis
Pubbl/distr/stampa	[Place of publication not identified], : John Wiley & Sons Incorporated, 2005
ISBN	3-527-61968-2
Descrizione fisica	1 online resource (liv, 991 pages)
Disciplina	571.81
Soggetti	Developmental biology Cytology Growth factors
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Stem cells -- Germ cells -- Implantation and placentation -- Cell movements during early vertebrate morphogenesis -- Head induction -- Anterior-posterior patterning of the hindbrain: integrating boundaries and cell segregation with segment formation and identity -- Neurogenesis in the central nervous system -- Generating cell diversity -- The molecular basis of directional cell migration -- Cell dealth in organ development -- Dorso-ventral patterning of the vertebrate central nervous system -- Novel perspectives in research on the neural crest and its derivatives -- Eye development -- Mammalian inner ear development: of mice and man -- Limb development -- Skeletal development -- Musculature and growth factors -- Skin development -- Tooth development -- Gastrointestinal tract -- Cell signaling and growth factors in lung development -- Molecular genetics of liver and pancreas development -- Molecular networks in cardiac development -- Vasculogenesis -- Inductive signaling in kidney morphogenesis -- Molecular and cellular pathways for the morphogenesis of mouse sex organs.
Sommario/riassunto	This is the first handbook structured according to organ systems to cover both embryogenesis and organ development. It addresses the functions of developmental signaling pathways and growth factors with a focus on cell division, cell migration, and cell differentiation. A

uniform article structure throughout the book facilitates easy comparison of data. Applications in molecular medicine are highlighted with chapters on developmental disorders and related novel therapeutic strategies.