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-- PARAXIAL MESODERM SOMITES -- SCLEROTOME FORMATION AND MIGRATION -- RESEGMENTATION -- SOMITIC CONTRIBUTION TO LIMB BUDS -- Formation of muscle -- Innervation and myogenesis -- Signals to initiate a limb bud -- A COMMENT ON PECTORAL GIRDLES -- THE CLAVICLE: EVEN MORE SURPRISING. Humans -- Other mammals -- Mammals that lack clavicles -- Birds -- Wishbone or clavicles -- NOTES -- Chapter 17 Skeletal Origins: Neural Crest -- DIFFERENT MESENCHYMES, SAME TISSUES -- NEURAL CREST AS A SOURCE OF SKELETAL CELLS -- EVIDENCE OF SKELETOGENIC POTENTIAL -- Ablation and transplantation experiments -- Marker experiments -- 3H-thymidine -- Xenopus laevis-Xenopus borealis chimaeras -- Quail-chick chimaeras -- Genetic markers for murine neural crest -- Information from mutants -- REGIONALIZATION OF THE CRANIAL NEURAL CREST -- THE VENTRAL NEURAL TUBE -- MIGRATION OF NCC: THE ROLE OF THE ECM -- NOTES -- Chapter 18 Epithelial-Mesenchymal Interactions -- URODELE AMPHIBIANS: CHONDROGENESIS -- AVIAN MANDIBULAR SKELETON: CHONDROGENESIS AND OSTEOGENESIS -- Isolated mesenchyme - chondrogenesis -- Isolated mesenchyme - osteogenesis -- Ruling out any role for Meckel's cartilage -- Molecular mechanisms -- OSTEOGENESIS IN AVIAN MAXILLARY ARCH SKELETON -- MAMMALIAN MANDIBULAR SKELETON -- Endothelin-1 (Et-1) -- The Dlx gene family and craniofacial development -- TELEOST MANDIBULAR ARCH SKELETON -- Fgf -- Hoxd-4 and retinoic acid -- Limb development -- Craniofacial development -- Fish -- Endothelin-1 (Et-1) -- Mutants -- LATERAL LINE, NEUROMASTS AND DERMAL BONE -- Hope from a single trout -- TERATOMAS -- Germ-layer combinations -- MESENCHYME SIGNALS TO EPITHELIUM -- SPECIFICITY OF EPITHELIAL-MESENCHYMAL INTERACTIONS -- NOTES -- Part VII Getting Started -- Chapter 19 The Membranous Skeleton: Condensations -- THE MEMBRANOUS SKELETON -- CONGENITAL HYDROCEPHALUS (ch) -- CHARACTERIZING CONDENSATIONS -- HOW CONDENSATIONS ARISE -- Altered mitotic activity -- Changing cell density -- Aggregation and/or failure to disperse -- Limb buds and limb regeneration -- Molecular control -- ESTABLISHING BOUNDARIES -- Syndecan and tenascin -- Fgfs -- Wnt-7a -- NOTES. Chapter 20 From Condensation to Differentiation.

Sommario/riassunto

Bones and Cartilage provides the most in-depth review ever assembled on the topic. It examines the function, development and evolution of bone and cartilage as tissues, organs and skeletal systems. It describes how bone and cartilage is developed in embryos and are maintained in adults, how bone reappears when we break a leg, or even regenerates when a newt grows a new limb, or a lizard a tail. This book also looks at the molecules and cells that make bones and cartilages and how they differ in various parts of the body and across species.
