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Nota di contenuto	Part I: Normal Articular Cartilage -- Structure and Function of Articular Cartilage -- Growth and Development of Articular Cartilage -- Part II: Aging, Degeneration and Physiologic Articular Cartilage Healing -- Articular Cartilage: Homeostasis, Aging and Degeneration -- Articular Cartilage Degradation: Biochemical Markers and Dynamic Loading -- Part III: Knee Articular Cartilage Injury: Evaluation and Assessment -- Acute and Chronic Traumatic Cartilage Injuries of the Knee -- Diagnostic Imaging of Knee Cartilage Injury: Evaluation and Assessment -- Assessment of Knee Cartilage Injury: Arthroscopic Evaluation and Classification -- Part IV: Repair of Knee Articular Cartilage Injury: Non-Operative Approach -- Physical and Rehabilitative Therapy for Knee Cartilage Injury and Disease -- Pharmacologic Agents for Knee Articular Cartilage Injury and Disease -- Part V: Repair of Knee Articular Cartilage: Surgical Approach -- Osteochondritis Dissecans of the Knee: Pathophysiology and Treatment -- Surgical Approach to Articular Cartilage Repair -- Clinical Outcome Assessment of Repaired Articular Cartilage -- Part VI: Qualitative and Quantitative Assessment of Articular Cartilage Repair -- Pre- and Post-Operative Imaging of Knee Articular Cartilage -- MRI of the Ultrastructural Composition of Articular Cartilage in Disease and Repair -- Histopathological

Evaluation of Articular Cartilage Disease and Repair -- Part VII: Research in Cartilage Repair and Cartilage Engineering Strategies -- Human Derived Cells in Chondral or Osteochondral Repair -- Relevance of Engineered Scaffolds for Cartilage Repair -- Commercially Available Bio-Engineered Cartilage Grafts -- Part VIII: Future Prospects for Knee Articular Cartilage Therapy -- Knee Articular Cartilage: Future Directions for Research and Practice.

Sommario/riassunto

Covering both pediatric and adult populations, this comprehensive text covers the diverse topics related to the health, disease and therapy of articular cartilage of the knee, from basic principles to future directions for research. This vast array of information is arranged into eight sections, encompassing a number of relevant disciplines and covering, in turn, normal articular cartilage, aging and degeneration, evaluation and assessment, non-surgical approaches, surgical approaches, qualitative and quantitative assessment of repair, research into cartilage repair and engineering, and future prospects for therapy. Each chapter is amply referenced and self-contained for independent study and reference. Scoring systems for knee cartilage assessment are included in four appendices as well, rounding out the presentation. A multidisciplinary collection of basic, translational and clinical material, Articular Cartilage of the Knee is a singular resource for orthopedic surgeons, rheumatologists, pathologists, scientists, tissue engineers and the broad spectrum of clinical professionals working with articular cartilage and its disorders.
