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Nota di contenuto	Intro -- OSTEOCLASTS -- OSTEOCLASTS -- Contents -- Preface -- Modulation of Osteoclast Differentiation and Function in Rheumatoid Arthritis -- Introduction -- Osteoclasts in Rheumatoid Arthritis -- Growth Factors -- Macrophage Colony Stimulating Factor -- Granulocyte Macrophage- Colony Stimulating Factor -- Transforming Growth Factor-Beta -- Tumor Necrosis Factor Super Family -- Receptor Activator of NF-Kappa B Ligand -- Tumor Necrosis Factor-Alpha -- Osteoprotegerin -- Interferon Family -- Interleukin Family -- Interleukin 1 -- Interleukin 6 -- Interleukin 10 -- Conclusion -- References -- Osteoclast Formation and Function and Its role in Skeletal Bone Disease -- Abstract -- Introduction -- Multinucleation -- Sealing Zone -- Ruffled Border -- Basolateral Membrane -- OCs and Clinical Implications -- Osteopetrosis -- Pycnodysostosis -- Paget's Disease -- Osteoporosis -- Cancer -- Inflammatory Arthritis -- Conclusion -- Acknowledgments -- References -- The High Osteoclastogenic Potential of Human Osteosarcoma Cells: Reciprocal Interaction between MG63 Osteoblast-Like Cells and Osteoclast Precursors -- Abstract -- 1. Introduction -- 2. Cell Culture Models -- 2.1. MG63 Cell Line -- 2.2. Peripheral Blood Mononuclear Cells (PBMC) -- 3. Osteoclastogenic Potential of the MG63 -- Cell Line -- 3.1. Paracrine-Mediated Mechanisms -- 3.2. Cell-to-Cell Contact Mechanisms -- 4. Modulation of the MG63 Cell Behavior by Osteoclastic Cells -- Conclusion --

References -- Osteoclast Biology in Paget's Disease of Bone -- Abstract -- Osteoclast Phenotype in PDB -- Viral and Genetic Factors in Paget's Disease of Bone -- Role of p62 in Osteoclast Signaling -- p62 as a Shuttling Factor -- Role of p62 Mutations in Paget's Disease of Bone -- Conclusion -- References -- Osteoclasts: The Major Actors in Bone Resorption -- Abstract -- Introduction. Osteoclast Differentiation and Activation -- Osteoclasts and Immune System Talk -- Osteoclasts in Bone Metastases -- Osteoclasts in Rheumatoid Arthritis -- Osteoclasts in Periprosthetic Osteolysis -- Osteoclasts in Pediatric Disease -- Osteoclasts in Osteoporosis -- Conclusion -- References -- Role of the Immuno-Skeletal Interface in Physiological and Pathological Osteoclast Regulation -- Abstract -- Introduction -- 1. Physiological Osteoclast Formation and the Role of the RANK/RANKL/OPG Axis -- 2. Role of the Immuno-skeletal Interface in Physiological Osteoclast Renewal -- a) T Cells and B Cells, the Centerpiece of Cell-mediated Immunity -- b) T Cells and B Cells, Critical Regulators of Basal Osteoclastogenesis -- c) Disruption of the Immuno-skeletal Interface and Bone Loss Associated with HIV-Infection -- d) The immuno-skeletal Interface and Osteoclastic Bone Loss Associated with inflammatory Disease -- e) Role of the Immuno-skeletal interface in Estrogen Deficiency-induced Bone Loss -- Conclusion -- Acknowledgments -- References -- Multiple Functions of Osteoclasts and Potential Usefulness of Phosphatidylserine-Containing Liposomes on Bone Diseases -- Abstract -- Introduction -- Immune Functions of OCs -- Angiogenic Functions of OCs -- HSC Regulation Function of OCs -- Effects of PSLs on OCs -- Effects of PSLs on Macrophages/Microglia -- Effects of PSLs on DCs -- Conclusion -- References -- Bone Formation and Osteoclastic Resorption after Implantation of beta-Tricalcium Phosphate (beta-TCP) -- Abstract -- Introduction -- Materials and Methods -- Experiment 1 -- Experiment 2 -- Results -- Experiment 1 -- Experiment 2 -- Discussion -- Conclusion -- References -- Osteoclasts of Patients with Neurofibromatosis 1 (NF1) -- Abstract -- Short Communication -- References -- Index.

Sommario/riassunto

In this book, the authors present current research in the study of the morphology, functions and clinical implications of osteoclasts. Topics include osteoclast formation and function and its risk in skeletal bone disease.