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Nota di contenuto	; Preface / Janet E. Henderson and David Goltzman -- ; Part I. Molecular and Cellular Environment of Bone -- Endochondral bone formation and development in the axial and appendicular skeleton / A. Robin Poole, Sheila Laverty and Fackson Mwale -- The role of osteoblasts / Jane E. Aubin -- Osteoclasts : characteristics and regulation of formation and activity / Johan Heersche and Morris F. Manolson -- Bone matrix proteins / Marc D. McKee and Jaro Sodek -- Local regulators of bone turnover / Lawrence J. Fraher and Patricia H. Watson -- The PTH/PTHrP system and calcium homeostasis / Geoffrey N. Hendy -- Vitamin D metabolism / Marielle Gascon-Barre -- Sodium-dependent phosphate transport in kidney, bone and intestine / Harriet S. Tenenhouse -- ; Part II. Determinants of Peak Bone Mass -- Molecular genetic analysis of growth factor signalling in bone / Janet E. Henderson and David Goltzman -- Genetic determinants of osteoporosis / Milan S. Patel, Laurence A. Rubin and David E.C. Cole -- Non-genetic determinants of

peak bone mass / Velimir Matkovic and John D. Landoll -- Bone mineral acquisition during childhood and adolescence : physical exercise as a preventative measure / Heather A. McKay and Karim M. Khan -- Osteoporosis in children / Frank Rauch and Francis H. Glorieux -- ; Part III. Pathophysiology of the Aging Skeleton -- Consequences of alterations in bone remodeling / Karen Prestwood and Lawrence G. Raisz -- The role of parathyroid hormone and hyperparathyroidism in osteoporosis / Pierre D'Amour -- Senile osteoporosis / Patrick M. Doran and Sundeep Khosla -- ; Part IV. Clinical Aspects of Osteoporosis -- Epidemiology / Jaques Brown -- Biochemical markers of bone turnover / David Hanley -- Radiologic assessment of osteoporosis / Jaqueline C. Hodge -- Bone mineral density measurements / Paul D. Miller and Carol Zapalowski -- Hormone replacement therapy / Jonathan D. Adachi and Alexandra Papaioannou -- Selective estrogen receptor modulators / Felicia Cosman and Robert Lindsay -- Bisphosphonate therapy of osteoporosis / Fred Singer and Payam Minoofar -- The action of fluoride on bone / Marc D. Grynpas, D. Chachra and H. Limeback -- PTH peptides as anabolic agents in bone / Anthony B. Hodsman -- Vitamin D and Vitamin D analogs as therapeutic agents / Richard Kremer.

Sommario/riassunto

Osteoporosis is one of the leading causes of morbidity and mortality amongst the elderly. The rationale for The Osteoporosis Primer is to provide an introductory text that relates the clinical presentation of osteoporosis to its molecular biochemical basis. The text has been organised into four sections that deal with the molecular/cellular components of bone, the development of peak bone mass, the pathophysiology of aging bone and, finally, how all of these relate to the prevention, diagnosis and treatment of osteoporosis. The international team of authors includes many leading clinicians and scientists who have provided the reader with a concise, yet comprehensive, synopsis of bone development and skeletal homeostasis. This will be an essential introduction for individuals working on osteoporosis including students and doctors considering a career related to metabolic bone disease, physicians in general practice, geriatricians, rheumatologists, and endocrinologists.
