



Development And Growth: Development and Growth v. 3

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The Biochemistry and Physiology of Bone, Second Edition: Volume III: Development and Growth focuses on bone development and growth, including bone repair and transplantation, the mechanisms of bone formation, and the role of hormones in bone formation and maintenance. It also explores osteogenesis in the human embryo and fetus, the internal remodeling and growth of bones, bone turnover and osteoporosis, cellular dynamics of bone, and the effects of radiation on bone.

Organized into 12 chapters, this edition begins with an overview of the biophysical principles affecting bone structure, with emphasis on the direct and indirect effects of pressure on cells and the possible mechanisms by which cell behavior is controlled by bioelectrical responses. It then discusses the periosteal and endochondral ossification of cartilage bone, internal remodeling in the young adult skeleton, structural aspects of bone growth, and radioautographic studies of bone formation. It also explains the symptoms, diagnosis, and treatment of osteoporosis; histology of osteocytic resorption; tritiated thymidine studies in bone; induction of heterotopic bone formation; requirements for cell survival in free autologous transplants; and skeletal effects of ovarian steroids. The book concludes with a chapter on the effects of radiation on tissues closely related to bone.

Biochemists, cell biologists, physiologists, anatomists, orthopedists, pathologists, clinicians, biomedical engineers, graduate students, professors, and others interested in the bone development and growth will find this book highly informative.

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