

## Bone and Development Topics in Bone Biology Volume 6



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**(Patience Bechtelar)**

## BONE AND DEVELOPMENT TOPICS IN BONE BIOLOGY VOLUME 6



Springer. Paperback. Condition: New. 305 pages. Dimensions: 10.2in. x 7.6in. x 0.8in. This book, Vol. 6 in the series Topics in Bone Biology, deals with bone development from growth to mineralization. Understanding tissue development involves combining embryological and histological information with the increasing knowledge from molecular and genetic studies. In each developmental stage, some genes are expressed and others silenced. Disease, especially disease progression, also is characterized by changes in gene expression that then are transmitted to daughter cells. In both situations, the choreography of gene expression and partial or complete silencing often are the result of the interaction between the genome and the epigenome, i. e., between a very stable set of structures and rapidly changing environmental factors. Chapter 1, by OConnor, Farach-Carson, and Schanen, is an overview of the field and of topics discussed in greater detail in subsequent chapters. After discussing bone development in terms of intramembranous and endochondral ossification, the chapter describes gene expression in osteoblasts and osteoclasts, bone cell coupling, and the regulatory effects of steroid hormones. Primary genetic defects that lead to various bone diseases Marfans syndrome, Pagets disease, and juvenile osteoporosis, among others are analyzed. The chapter ends with a section on the epigenetic regulation of bone development, including methylation, histone modifications, and imprinting. This chapter, like all others, has an extensive bibliography and figures to illustrate principal points. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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