

Bone Research Protocols (Methods in Molecular Biology)



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Studies over the past decade have continued to bring tremendous advances to our understanding of bone biology. New pathways have been discovered and expanded our knowledge of the ways in which genes and gene products affect bone cells and thereby bone mass and bone strength. In *Bone Research Protocols, Second Edition*, expert researchers in the field detail many methods commonly used to study bone biology. Focusing mainly on in vitro methods, this volume gives techniques for isolation, culture and functional analysis of all bone cell types and details a range of imaging methods, including light and ultrastructural microscopy and live cell imaging. Some important in vivo techniques are included, such as analysis of bone resorption and imaging using X rays, fluorescent or luminescent techniques. Methods for study of proteins and nucleic acid are included and methods for analysis of bone composition, measurement of bone strength, and response to mechanical stimulation are described. Written in the highly successful *Methods in Molecular Biology*TM series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and key tips on troubleshooting and avoiding known pitfalls.

Authoritative and practical, *Bone Research Protocols, Second Edition* seeks to aid scientists in the bone field to establish new techniques in their laboratories.

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