



Special Issue Reprint

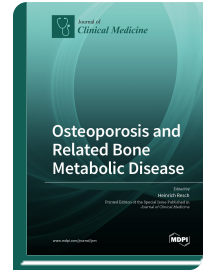
Osteoporosis and Related Bone Metabolic Disease

www.mdpi.com/books/reprint/6738

Edited by
Heinrich Resch

ISBN 978-3-0365-6348-0 (Hardback)

ISBN 978-3-0365-6349-7 (PDF)



Many heterogeneous causes (e.g., metabolic, inflammatory, autoimmune, vascular, and renal diseases, and even drugs), collectively grouped as secondary causes of osteoporosis, may lead to bone loss or damage to architecture through a number of mechanisms. Although these secondary causes of osteoporosis are the most frequently observed causes of unexpected bone loss, they can only be diagnosed via a high degree of suspicion and clinical experience and by performing the appropriate investigations. In inflammatory disorders such as rheumatoid arthritis or chronic inflammatory bowel diseases, as well as vascular diseases, T-cell activation, and consequently pro-inflammatory cascades, trigger the increased expression of T-cell-derived RANKL. In addition, a new biomarker signature of bone-related miRNAs is promising in certain clinical features. Glucocorticoids, often used to control disease activity, decrease the number and function of osteoblasts and inhibit OPG expression. The ubiquitous occurrence of disease-related secondary changes in bone metabolism implies that numerous medical disciplines need to interact. Screening for secondary causes of osteoporosis and the search for new modes of action should present a substantial aspect of osteoporosis management. In the book, the current management of osteoporosis and related metabolic bone diseases is discussed.

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.