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Key Genetic Determinants of Osteoporosis: From Bench to Bedside

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Message from the Guest Editors

Osteoporosis is a skeletal condition characterized by decreased bone mineral density and poor bone quality, with an increased risk of fracture. An important aim of future work will be to better elucidate the pathogenesis of this complex disease. Indeed, it is highly clinically relevant to individuate patients at greater risk of osteoporosis to develop personalized preventative therapeutic strategies to be employed before fractures have occurred. Thus, greater efforts are required to understand how the genes which regulate bone mass, bone turnover, and other aspects of bone metabolism interact with each other and with environmental variables to cause osteoporosis in individual patients. This Special Issue in *Genes* on “Key Genetic Determinants of Osteoporosis: From Bench to Bedside” will address the pathogenesis of osteoporosis, providing an overview of the complex interaction existing among genetic determinants, epigenetic mechanisms, and environmental factors in the light of recent developments as well as critical perspectives on upcoming challenges.



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Special Issue



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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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