

## Special Issue

# Recent Advances in Bone Biology

### Message from the Guest Editors

Bone is a mineralized and viscous-elastic connective tissue that exerts several crucial functions in the human body, such as allowing locomotion, protecting internal organs, storing and releasing fat, minerals, and hormones, producing blood cells, and providing mechanical support. Bone homeostasis is maintained through the finely tuned and regulated activities of bone cells, including osteogenic precursors, bone-forming osteoblasts, bone-resorbing osteoclasts, and mechanosensing osteocytes. In this context, our aim for this Special Issue is to provide a comprehensive overview of recent theoretical, technical, and methodological advances in the field of bone biology. In particular, scientific contributions covering topics such as bone molecular and cellular biology, bone tissue development and repair, bone cell cross-talk, bone metabolism, bone signaling, bone cancer immunotherapy, bone-targeted therapies, the development of bone organoids for tissue engineering, and the mechanobiology of bone cells in in vitro and in vivo experimentations are welcome.

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### Guest Editors

Dr. Barbara Peruzzi

Dr. Martina Leopizzi

Dr. Giulia Battafarano

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### Deadline for manuscript submissions

31 August 2025



## Life

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### Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

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