

Special Issue

Bone Mechanics: From Cells to Organs, to Function

Message from the Guest Editor

We invite you to contribute original articles to the Special Issue “Bone Mechanics: From Cells to Organs, to Function”, with a focus on advancing our understanding of bone physiology and function. As bone serves both mechanical and metabolic roles, studying its response to loads at a cell, tissue and organ level is essential for deciphering research questions across fields such as skeletal adaptation during evolution of species, consequences of ageing in humans, acute and chronic pathologies, among others. We welcome submissions in basic research exploring bone mechanics in humans and animal models, including comparative studies that shed light on evolutionary patterns or translational relevance. Contributions may address topics such as mechanotransduction, structural analysis, age-related changes, and innovative experimental or computational methods to assess bone response to loads. This Special Issue aims to bridge disciplines, from biomechanics and histology to evolutionary biology and biomedical engineering, highlighting the importance of research questions, classic and new methods and results, and methodological rigor in the study of skeletal systems.

Guest Editor

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Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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