

Special Issue

Advances in Osteoimmunology and Bone Biology

Message from the Guest Editors

Traditionally, osteoimmunology investigated the molecular mechanisms underlying bone destruction associated with inflammatory diseases, and focused primarily on the role of osteoclasts in bone homeostasis. In recent years, it has become increasingly clear that other pathologic conditions and genetic deficiencies in immunomodulatory molecules also elicit skeletal phenotypes. The advent of OMIC approaches has also revealed that the immune and bone systems share many molecules, including cytokines, chemokines, transcription factors and signalling molecules and that bone cells reciprocally regulate immune cells and haematopoiesis. Here, we invite the submission of new studies that have explored the role of immune cells and immune cell-derived factors that control, regulate, or influence the function of osteoblasts, osteoclasts, and osteocytes. Similarly, we also seek studies where defects in molecules expressed primarily in skeletal cells, or alleles associated with skeletal phenotypes, reciprocally affect the development, persistence or behavior of immune cells in the bone marrow, or systemically.

Guest Editors

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Deadline for manuscript submissions

closed (31 August 2022)



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