Special Issue

Bone Morphogenetic Protein (BMP) Signaling in Health and Diseases

Message from the Guest Editor

BMP family members are involved in a wide-ranging and continuously expanding number of functions, including dorsal-ventral pattern formation, morphogenesis, organogenesis, cell differentiation, and lineage direction of stem cells. In adult organisms, BMPs also control several cellular processes, including cell proliferation, differentiation, apoptosis/survival, autophagy, chemotaxis, and migration/invasion in many different cell types, and they play critical roles in different organ systems. BMP signaling is extensively regulated at different levels: extracellularly, by a plethora of receptors, co-receptors, and agonist and antagonist extracellular molecules; and intracellularly, where finely tuned Smad and non-Smad signaling pathways modulate downstream cellular responses. Thus, dysregulation of BMP signaling has pathological consequences, and accumulating evidence points at BMPs as the epicenter of many human diseases. Furthermore, BMPs signaling is seen as a clinical target with therapeutic potential.

- BMPs
- Signaling
- Smad and Non-Smad signaling
- Metabolism
- Disease

Guest Editor

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Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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