

Special Issue

Cell and Molecular Causes of Joint Inflammation and Damage

Message from the Guest Editor

Osteoarthritis (OA) leads to irreversible joint damage and progressive loss of function. OA remains a large challenge since so far no effective therapeutic options are available. On the molecular level the osteoarthritic articular cartilage shows cartilage extracellular matrix degradation, chondrocytes apoptosis, catabolic response and mitochondrial stress. In addition to cartilage many other joint associated tissues are affected by OA. Since its molecular pathogenesis is still poorly understood much more research has to be undertaken to establish a solid basis for future therapeutic interventions. Therefore, this special issue aims to summarize emerging novel insights into the molecular pathogenesis of OA with a strong focus on the interrelation between inflammatory and chondroprotective signalling pathways as well as dysbalances of the joint-related immune responses. It should also address the contribution of systemic metabolic disorders such as diabetes mellitus to OA leading to its accelerated pathogenesis. We are looking forward to your contributions to this Special Issue.

Guest Editor

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Message from the Editorial Board

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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