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Cell and Molecular Causes of Joint Inflammation and Damage

Guest Editor:

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Deadline for manuscript submissions:

closed (31 August 2023)

Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Gundula Schulze-Tanzil
Guest Editor



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Special Issue



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