

Special Issue

Biology of Osteoarthritis

Message from the Guest Editors

Osteoarthritis is a severe, chronic joint disorder affecting millions of people worldwide, for which there is no reliable cure to date. The degradation of the articular cartilage is a central feature of the disease, but osteoarthritis is also associated with pathological changes in all other joint tissues, including a remodelling of the subchondral bone; inflammation of the synovium; and injuries in the meniscus, tendons, and ligaments. As none of the current therapeutic options can prevent the progression of the disease or restore damaged joint tissues in their structures and functions, there is an urgent need to better understand the pathomechanisms underlying osteoarthritic changes in patients. The goal of this Special Issue is to offer an overview of the most advanced knowledge on osteoarthritis that may allow one to develop novel regimens against this serious, global disorder.

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Deadline for manuscript submissions

closed (30 November 2020)



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Impact Factor 3.6
CiteScore 5.7
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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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