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Osteoarthritis Pathology and Treatment

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Message from the Guest Editor

Among the over one hundred different types of arthritis conditions, osteoarthritis (OA) also known as degenerative arthritis is the most common, being a major cause of pain and disability in adult individuals. Our lack of full understanding of the basic mechanisms that initiate and sustain the disease remains a major obstacle in the search for an effective cure. The etiology of OA concerns joint injury, obesity, aging, and heredity. The investigations on the pathological processes of OA development are focused on OA symptoms, consisting of hypertrophy and apoptosis of articular chondrocytes, degradation of cartilage matrix, angiogenesis and calcification of hyaline cartilage, formation of osteophytes, degeneration of ligaments and remodeling of subchondral bone. The development of disease-modifying therapy for OA is embarrassed mainly because the onset and development of the disease involve complex molecular mechanisms. Most frequently, the disease is associated with pain complaints. The causes of pain appeared to be instability, increased pressure, hypertension and damage of sensitive structures like periosteum, ligaments and joint capsule.



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Message from the Editor-in-Chief

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