



Osteoarthritis: Molecular Pathways and Novel Therapeutic Strategies

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Message from the Guest Editors

Osteoarthritis (OA) is a prevalent and degenerative joint disorder characterized by the progressive deterioration of joint cartilage and the surrounding structures. It is the most common form of arthritis and often affects weight-bearing joints such as the knees, hips. Osteoarthritis (OA) exhibits a spectrum of clinical phenotypes, reflecting the heterogeneous nature of this prevalent joint disorder: (1) Chronic Pain Phenotype (Emphasizes central mechanisms, such as central sensitization; Characterized by persistent pain, potentially influencing treatment strategies); (2) Inflammatory Phenotype (Marked by elevated levels of inflammatory biomarkers); (3) Metabolic Syndrome Phenotype (Exhibits a high prevalence of obesity, diabetes, and metabolic disturbances); (4) Bone and Cartilage Metabolism Phenotype (Involves alterations in local tissue metabolism); (5) Mechanical Overload Phenotype (Primarily characterized by varus malalignment and medial compartment disease); (6) Minimal Joint Disease Phenotype (Characterized by minor clinical symptoms with slow progression).





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Message from the Editor-in-Chief

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