



Osteoarthritis: Diagnosis and Therapeutic Approaches

Guest Editors:

Dr. Qiang Liu

Associate Professor, Arthritis
Clinic and Research Center,
Peking University People's
Hospital, No.11 Xizhimen South
Street, Beijing 100044, China

Dr. Zeyu Huang

Associate Professor, Department
of Orthopedics, Orthopedic
Research Institute, West China
Hospital, Sichuan University,
Chengdu 610000, China

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Message from the Guest Editors

Osteoarthritis is a leading cause of disability worldwide. With an aging population and increasing prevalence of obesity, this syndrome has become more prevalent in the past few decades. Imaging may provide valuable information on structural changes that occur in cartilage, synovia, and subchondral bone. Nonetheless, validated biomarkers that can be used to monitor progression are still warranted. Guidelines recommend a set of core treatments, including patient education, exercise, and weight loss. Although the effectiveness and efficacy of these core treatments have been well documented, there is still a gap between clinical practice and guidelines. New drugs targeting various pathological changes are under active research and ongoing development in phases 1, 2, or 3. Joint replacement has been proved to represent successful treatment for end-stage knee and hip osteoarthritis. However, there remains a lack of intervention that can effectively cure the disease or postpone its progression. Therefore, diagnostic and interventional approaches are areas that need to be targeted in various research endeavors.





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Office
MDPI, Grosspeteranlage 5
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