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New Insights in Musculoskeletal Pathophysiology: From Space to Fish, and Beyond

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Message from the Guest Editor

Musculoskeletal disorders, mainly comprised of bone, muscle, tendon and joint diseases, represent one of the most common health problems worldwide with enormous socioeconomic burden. During the last twenty years, new advances have been made in understanding the pathophysiology of musculoskeletal system. Novel pathogenetic pathways have been identified leading to the discovery of new molecular targets for therapeutic approaches. Innovative methodologies such as microgravity conditions, mechanical loading experiments and 3D cellular models as well as novel biological approaches such as nutritional programming, chrono-biology, computational biology and utilisation of pioneering animal species have led the way to elucidate the mechanisms of musculoskeletal diseases like sarcopenia, osteoporosis and osteoarthritis. In this Special Issue of journal *Life*, we aim to collect articles that encompass the latest developments in musculoskeletal biology and provide a comprehensive update.



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Special Issue



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Message from the Editor-in-Chief

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