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Platelet Rich Plasma and Mesenchymal Stem Cells in Orthobiologics Therapy – From Basic Science to Clinical Application

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Message from the Guest Editors

Dear Colleagues,

This Special Issue is devoted to presenting new trends of platelet rich plasma (PRP) and mesenchymal stem cell (MSC) application in musculoskeletal disorders with regard to basic mechanisms and also histopathological, radiological, and clinical implications. Our understanding of PRP and MSC application on microscopic tissue alterations is still insufficient, and it may be the key to gaining knowledge about the complete recovery of musculoskeletal diseases. Likewise, an increasing number of studies have revealed functional improvements after this therapy. However, histopathological and radiological implications are usually deficiently presented. Thus, there is a need for continued progress in PRP and MSC research, validation of PRP and MSC preparation protocols, and correlation with histopathological changes in musculoskeletal pathologies.

Finally, all papers on novel clinical applications of PRP and MSCs, also in combination with other bioactive molecules, in the treatment of musculoskeletal disorders are welcome, as are basic science and radiological studies.