



Advances in Mesenchymal Stem Cells Volume II

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Message from the Guest Editor

Dear Colleagues,

Mesenchymal stem cells (MSCs) are multipotent stem cells derived from mesenchyme, which develops from the mesoderm. MSCs are capable of self-renewal and differentiation into skeletal and connective tissues such as bone, fat, cartilage and muscle. The main roles of resident MSCs in adults are self-repair and the maintenance of cellular tissue homeostasis. MSCs are considered to be ideal candidates for tissue regeneration and tissue engineering, and interest in their biological roles and clinical potential has dramatically increased over the previous few decades. MSCs can be effective in the modulation of immune responses, anti-inflammatory affect, tissue repair and regeneration in many therapeutic applications, both in vitro and in vivo.

This Special Issue will provide evidence-based analyses and overviews of recent advances in MSCs and nanotechnology. This Issue invites original research articles and reviews that cover MSCs secretomes/exosomes or EVs and their impact, biomolecules and markers of MSCs, the cultivation and differentiation of MSCs and nanotechnology or biomaterials, signalling pathways, and functional genomics.

Dr. Huseyin Sumer
Guest Editor



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