

Special Issue

Stem Cells of the Dental Pulp and Regeneration

Message from the Guest Editors

Stem cells (SC) are permanently present in the adult teeth, in apical papilla stem cells, in exfoliated and deciduous teeth. SC are also present during dental follicle and crown SC formation. Stem cells display different phenotypes. At the surface of population of SCs generic markers are indicative of SCs. They display colony forming ability, and express different panels of surface markers, such as Stro-1, CD44, CD106, CD146, CD90, and Sca-1. They are highly positive for CD29, CD44, CD90, and HLA I. They were used to characterize hematopoietic stem cells. They were negative for CD34, CD45, CD71 and HLA II. They are clonogenic, highly proliferative, and capable of regenerating a tissue. Therefore, they are pulp stem cells, implicated in regenerative medicine.

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