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Tissue Regeneration: A New Era in Dentistry

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Abstract: Tooth regeneration provides new and inventive solutions to challenges in the oral and dental sciences. In cases where a tooth is lost, it may be replaced with an implant, bridge, or a denture capable of mastication. A stem cell is a special kind of cell that has a unique capacity to renew itself and that has a remarkable potential to develop into many different cell types in the body. The oral stem cells show their capability to repair cornea, dental pulp, periodontal, neural, bone, muscle, tendon, cartilage, and endothelial tissues without neoplasm formation. In this review, we discuss the general characteristics of stem cells with a focus on dental stem cells and the use of these stem cells for dental tissue regeneration, particularly regarding pulp–dentin, periodontal ligament (PDL), and whole tooth regeneration.

Key Words: Tooth regeneration, craniofacial regeneration, pulpal regeneration, stem cells.

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