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Current Overview on Dental Stem Cell Application in Regenerative Prosthodontics

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Abstract:

In recent years, stem cell therapy has become a very promising and advanced scientific research topic. Therefore, this review is summarized to understand the role of stem cells in regenerative prosthodontics for various dental procedures. It will also provide knowledge about the stem cells used in prosthetic dentistry and the effectiveness of stem cell therapy. Stem cells are undifferentiated biological cells that can differentiate

into specialized cells and can divide to produce extra stem cells. They are originated in multicellular organism. They may be embryonic or adult stem cells. The stem cells of the dental pulp are the mesenchymal stem cells (MSC). They are the most commonly used stem cells. However, bone marrow-derived mesenchymal stem cells are a commonly used cell type for utilization in cell-based regenerative approaches in prosthodontics. They help to build the bone structures of the craniofacial region, particularly the maxilla and mandible. Stem cell therapy is one the most recent advances in the dental field. It's use establishes a 100% success rate. Thus, knowing its value is of prime importance.

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