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**Mass acquisition of human periodontal ligament stem cells**

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### Abstract

The periodontal ligament (PDL) is an essential fibrous tissue for tooth retention in the alveolar bone socket. PDL tissue further functions to cushion occlusal force, maintain alveolar bone height, allow orthodontic tooth movement, and

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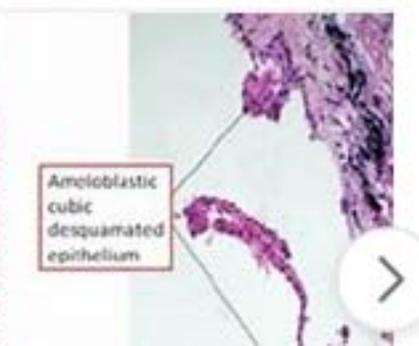
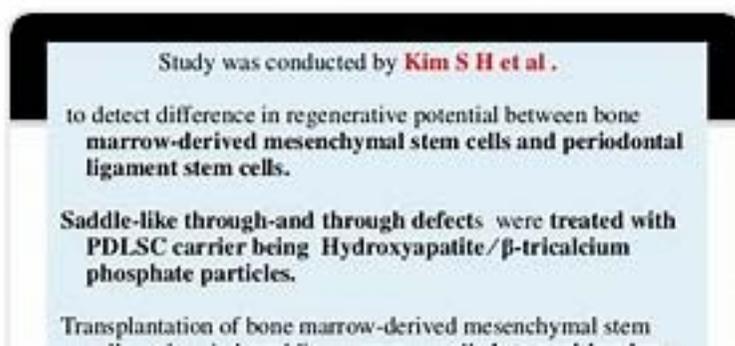
Aug 26, 2018 · 1.6. Establishment of Human Periodontal Ligament Stem/Progenitor Cell Lines. The stem cell population in PDL tissue is quite rare; therefore, acquiring enough number of stem cells for the convenience and consistency of analyses is very difficult.

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## [PDF] Human Periodontal Ligament Stem Cells

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cell types, including osteoblasts, chondrocytes, and adipocytes<sup>10, 11</sup>). In dentistry, suitable tooth-derived **stem cell** have been identified and characterized to evaluate in tissue engineering studies. Among tooth-derived **stem cells**, **human periodontal ligament stem cells** (HPLSCs) express a

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MSM Promotes Human Periodontal Ligament Stem Cells Differentiation to **Osteoblast and Bone Regeneration** - **PubMed Periodontal disease** is the most common chronic disease of the oral and maxillofacial region, causing alveolar bone loss and ultimate loss of tooth.

**Author:** Sung-Ho Ha, Pill-Hoon Choung **Publish Year:** 2020

## [PDF] Label-free quantitative proteomic analysis of human ...

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earlier reports, periodontal ligament stem cells (PDLSCs) have been identified from the **human PDL which had the potential to generate bone, cementum and PDL-like tissue**.<sup>3,4</sup> PDLSCs have expressed MSC-associated markers STRO-1 and CD45 at higher levels than in bone marrow stem cells (BMSCs) and could be more committed toward PDL

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Background and Objectives. Proteome analysis of **periodontal ligament stem cells** (PDLSCs) could be