



Advanced tissue engineering in periodontal Regeneration

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Abstract

The old wishes of people were to regenerate lost tissues of periodontium that this fact is achieved by gen and cell therapy .Periodontal disease is a chronic inflammation around the tooth by microbes that causes destruction of supporting structure of tissue of tooth such as alveolar bone, cementum and periodontal ligament. For treatment of periodontal diseases we can use the biomaterials which help to regenerate the periodontal tissues like; autogenous bone grafts, allograft, guided tissue regeneration, enamel matrix derivatives and recently usage of growth factor was successful in different levels. There are some biological marker the process of progressive periodontal disease subsequently induce tissue injury. Nowadays we use scaffold for local treatment of tissue injuries and also stem cell could be used to cure intraosseous defects of jaws and others as repair of joints and cartilage, intervertebral discs, spinal lesion, myoblasts for heart stroke and retina. Unlikely the complete regeneration of periodontal tissues do not fulfilled.

Key words: Periodontal, Tissue engineering, Regeneration, Stem cells.

Poster Presentation

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