

Rigenerazione parodontale: come aumentarne in futuro la predicibilità?

Periodontal regeneration: How to make greater predictability in the future

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Repair of alveolar bone defects caused by periodontal and peri-implant tissue destruction is a major goal of oral reconstructive therapy. The field of regenerative medicine combines advances in materials science and biology to repair tissues and organs. Bone tissue engineering has been achieved with limited success by the utilization of barrier membranes, space fillers, and block grafting techniques. The use of biologics such as growth factors have entered into the clinical arena to offer another tool to treat periodontal lesions. This presentation will review emerging therapies in the areas of materials science, 3D printing, growth factor biology and cell therapies. Results from preclinical and clinical trials will be presented using stem cells, 3D printing and growth factors. The presentation will conclude with a future perspective on the use of novel biomimetic approaches such biomimetic scaffolding materials with the potential of accelerating dental implant osseointegration and periodontal tissue repair.