Reviewer's report

Title: Gene-Enhanced Tissue Engineering For Dental Hard Tissue Regeneration: (2) Dentin-Pulp And Periodontal Regeneration:

Version: 1 Date: 26 April 2006

Reviewer: Hans Peter Wiesmann

Reviewer's report:

General

The authors present a state of the art review of gene-based therapies in the field of dentin-pulp and periodontal regeneration methods. The manuscript gives a good overview over the different experimental results and tries to provide an outlook to future approaches.

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Major Compulsory Revisions (that the author must respond to before a decision on publication can be reached)

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Minor Essential Revisions (such as missing labels on figures, or the wrong use of a term, which the author can be trusted to correct)

Abstract:

P 2, line 7: will review will discuss (both?)

Introduction:

P 3, line 4: will review will discuss (see above)

II. Gene-based therapies for dentin/pulp regeneration:

P 4, line 11: number of as of yet poorly defined factors (number of as yet poorly defined factors?)
P 4, line 14: growth actors (factors!)
P 5, line 13: In vitro and in vivo (should be italicised)
P 5, line 18: in vitro (see above)
P 7, line 7: resultss (results)
P 8, line 7: appear to stimulate the differentiation of odontoblasts as well as (to) promote new dentin formation.
P 8, line 11: ex vivo (see above)
P 9, line 3: in vitro (see above)

III. Gene-based therapies for periodontal regeneration:

P 13, line 13: efficacy (efficiency)
P 17, line 11: effectiveness (additional blank!) at
P 18, line 10: [77] ([77])
P 20, line 14: [83] (see above)

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Discretionary Revisions (which the author can choose to ignore)

What next?: Accept after minor essential revisions

Level of interest: An article of outstanding merit and interest in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.