Reviewer's report

Title: Immunomodulatory factors gene polymorphisms in chronic periodontitis: An Overview

Version: 2 Date: 20 Dec 2018

Reviewer: Stefan Reichert

Reviewer's report:

The authors conducted a literature search to evaluate genetic risk factors for chronic periodontitis. From my point of view, the work has methodological deficits and the linguistic quality is not good.

Abstract

The abstract in the present form is not well structured. I would divide the abstract as follows: Background, aim, methods, results conclusions.

Introduction

Polymorphisms in genes can influence not only the amount of cytokine produced, but also its composition. This depends, among other things, on the position of the polymorphism on the gene, for instance promoter, coding region, introns etc..

Main text

How did the authors carried out the literature search? For instance, which databases (e.g. medline) were used, which keywords were used, according to which quality criteria the cited studies were selected.

The text should refer to Table 1.

The authors should try to give the rs numbers for the listed SNPs.

Page 10 line 246: What means "Stereologicaal analysis of interdental gingiva…?"

Page 13 line 315: The first bacterial name should be capitalized, for instance "Prevotella intermedia". In many journals, bacterial names must be written in italics.
Summary and conclusions

What could be the reasons for the inconsistent results regarding the investigated SNPs? Here I am thinking of ethical differences, differences in the selection of patients and control subjects, differences in the number of subjects examined, etc. The results of genome-wide association studies should also be taken into account. In the authors' opinion, when would an SNP be suitable for the clinical diagnosis of CP and what therapeutic consequences would result from a genetic risk assessment?

In general, the entire text should be revised by a native speaker, as some sentences are incomprehensible and also spelling errors occur.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

No

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Unable to assess

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

No

Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

Quality of written English
Please indicate the quality of language in the manuscript:

Not suitable for publication unless extensively edited
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