Reviewer’s report

Title: Variation in the CXCR1 gene (IL8RA) is not associated with susceptibility to chronic periodontitis

Version: 1 Date: 21 July 2011

Reviewer number: 1

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Major Compulsory Revision:

1. The authors show a lack of association between rs2234671 SNP and chronic periodontitis. However, the authors did not show if the sample used in this study present the statistical power to detect the association. Thereby, the authors should include in this paper a statistical power analysis in order to strength the conclusion of lack of association between rs2234671 SNP and chronic periodontitis. This analysis can be perform using GPOWER software, as described in “Faul, F., Erdfelder, E., Lang, A.G., and Buchner, A. (2007). G*Power 3: a flexible statistical power analysis program for the social, behavioral, and biomedical sciences. Behav Res Methods 39, 175-191.”

Minor Essential Revision:

1. In third paragraph within Findings section the authors preferred to use +860G>C notation, used in SNP500Cancer database. The authors should use the correct notation 860G>C (without the plus signal), according the following reference: “den Dunnen, J.T., and Antonarakis, S.E. (2000). Mutation nomenclature extensions and suggestions to describe complex mutations: a discussion. Hum Mutat 15, 7-12.”. The author also could use the notation based on SNP database (rs2234671) instead 860G>C notation, which avoids the problem regarding to the different positions for this SNP, pointed in this paragraph. In addition, the author should use only one notation, instead of all notations, as showed in last paragraph in Finding section: “…Ex2+860G>C (S276T) (rs2234671) SNP…”

Level of interest: An article of importance in its field

Quality of written English: Acceptable

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