Reviewer’s report

Title: Medical-grade polycaprolactone scaffolds made by melt electrospinning writing for oral bone regeneration – a pilot study in vitro

Version: 0 Date: 16 Sep 2018

Reviewer: Jamil Awad Shibli

Reviewer's report:

Manuscript: Medical-grade polycaprolactone scaffolds made by melt electrospinning writing for oral bone regeneration by Fuchs and colleagues.

GENERAL COMMENTS: This manuscript shows the biocompatibility of a membrane made from medical-grade polycaprolactone scaffolds produced by melt electrospinning. The authors performed a box-shaped scaffolds with different sizes consisting of PCL and evaluated the membrane morphology by SEM and cell culture (human osteoblast-like cell line MG63). They concluded that the scaffolds produced with medical-grade materials could be a promising approach for GBR and "...may enhance wound healing in certain maxillofacial issues.". The paper is interesting and add detailed information to the Oral and Maxillofacial Guided Regeneration, however before acceptance, some revision must be done. The idea of perform the viability of cells into and on scaffolds made with PCL of different pore sizes should be better explained, in both Introduction and discussion section. Specific comments were made below.

SPECIFIC COMMENTS

INTRODUCTION

P5L104: "…and even more recently, MEW…”Please, spell MEW at least once.

P6L123: This sentence seems more a conclusion section; please, delete.

M&M

P7L145: How did the authors define the pores size? Please, clarify.

P8L153: Did the authors take microphotographies from all sizes membranes? Could the authors please add these figures to the manuscript?
Did the authors performed statistical analysis? This data will improve the data comprehension. In addition, add mean + SD to the bars (all figures).

DISCUSSION

The authors should emphasize the differences among the membranes; please add the discussion after statistical analysis.

CONCLUSION: The authors should reduce this section; only the final conclusion, showing the exact feature of the study.

REFERENCES: A total of 35; all pertinent. Could the authors please update the references: some of them are already published.

FIGURES: The authors should add the statistical analysis to the graphics (p value) as well as the SD or SEM.

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

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

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.
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Acceptable

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