

CERTIFICATION for the PEER REVIEW PROCESS &
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and ANTI-PLAGIARISM CONTROL

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I declare, I confirm, I certify and I sign that I received substantial, important, line by line peer review with several and substantial comments, important remarks and hints from, at least, 3 Reviewers and the Assistant Editor for my paper: ..

Well-posedness of the optimal control problem related to degenerate chemo-attraction models

with Authors: ..Sarah Serhal, Georges Chamoun, Mazen Saad and Toni Sayah

.....
I would like to thank all the reviewers for their thoughtful comments and efforts towards improving our manuscript. We revised the manuscript with special attention to the comments that we received from

the Reviewer 1:

We have corrected all the grammatical errors using the mentioned video via Gmail.

the reviewer 2:

1. *Further details were given on the Faedo-Galerkin solution in Subsection 2.1.*
2. *The numerical test is one of the perspective of this work including the control problem. In fact, numerical simulations without control were done in [Saito, IMA, J. Num. Analys. 2007], [Badia and al., M3AS 2023], [Hassan et al., Comm. Nonlinear Sci, 2022] using finite element method, [Filbet, Num Math, 2006] and [Bessemolin et al. IMAQ J of Num. Analysis, 2014] using finite volume scheme. In our paper, we focus only on the theoretical study of the optimal model. All mentioned works have been added at the end of the subsection 2.3*
3. *We have checked all the references.*

the reviewer 3:

All the references are well-checked according to the given instructions.

(<-write the correct number) reviewers that were experts, specialists in the area of my paper.

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Date: 27/06/2024