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June 18, 2019

Dear Editors,

We are submitting the revision of our manuscript titled "Front-end Weber-Fechner gain control enhances the fidelity of combinatorial odor coding" for publication in *eLife* as an eLife Advance to our previous paper (Gorur-Shandilya et al *eLife* 2017).

We have edited the text, following the comments from the reviewer. We have update Figures 2, 4, and Figure 2--Supplement 2, according to the comments.

We are sending a point-by-point response to the reviewers' comments, where we explained the changes we have made to the manuscript. We also include a version of the paper with the edited text highlighted.

We thank the Editors and reviewers for their thoughtful and constructive comments and hope that the revision is now suitable for publication.

Sincerely yours,

Thierry Emonet

Associate Professor of Molecular, Cellular and Developmental Biology & Physics