Dear Dr. Lueckgen,

We appreciate the reviewers’ constructive comments and compliments on our manuscript ***NCOMMS-22-11326***. In line with your comments and those from the reviewers, we have revised our manuscript to address all the remaining concerns. Specifically, we have:

* added descriptions and citations in the manuscript for all Supplementary Figures, as well as minor changes to improve clarity of technical details;
* have made changes in both the main text and supplementary information files in accordance with all instructions in the author checklist;
* provided high-resolution figures, supplementary data files, revised reporting summary, the completed editorial policy checklist and author checklist, and the updated manuscript with changes highlighted in red.

We would appreciate if you do spread information about our manuscript on Twitter, and if so, hope you reference the Center for Multiscale Cell Fate, @uci\_cmcf. We would like to thank you again for working with us on this manuscript, and hope to hear back from you soon.

Sincerely,



Qing Nie

Chancellor’s Professor of Mathematics and Developmental & Cell Biology